

**Summary Page**  
**BHABA R. SARKER**

Department of Mechanical & Industrial Engineering  
LOUISIANA STATE UNIVERSITY, BATON ROUGE, LA 70803  
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Website: <https://www.lsu.edu/eng/mie/people/faculty/sarker.php>  
E-mail: [bsarker@lsu.edu](mailto:bsarker@lsu.edu)

**INTERESTS:** Production and Manufacturing Systems Engineering: Manufacturing Systems, Material Handling, Scheduling, Location Theory, JIT Inventory Systems, Warehouse Logistics and Distribution, Lean Manufacturing, Supply Chain Management, Renewable Energy, Service Operations, Healthcare Supply Logistics, and Operations Research.

**ADDITIONAL TEACHING INTERESTS:**

Linear and Nonlinear Programming, Network Optimization, Queuing Theory, Applied Probability and Statistics, Quality Control, Reliability Engineering and Systems Simulation.

**EDUCATION:**

PhD (IE)	<b>Texas A&amp;M University</b> , College Station, TX (1989)
I. Engr.	<b>Syracuse University</b> , Syracuse, NY (1982)
M. S. (Eng. Admin)	<b>Syracuse University</b> , Syracuse, NY (1979)
M. Tech. (IE & OR)	<b>Indian Institute of Technology</b> , Kharagpur, India (1976)
B. Sc. Eng. (Mech)	<b>Bangladesh Univ. of Eng. and Technology</b> , Dhaka (1974)
B. A. (Distinction in Math)	<b>University of Dhaka</b> , Bangladesh (1972).

**P. E.** **Professional Engineer** (Louisiana License #PE-0032879), December 21, 2006  
**FELLOW** **Institute of Industrial & Systems Engineers (USA)**, May 20, 2003.  
**FELLOW** **South Asia Institute of Science and Technology (SAISE, #2014-0617003)**

**EXPERIENCE:**

<i>Teaching:</i>	Louisiana State University, Baton Rouge, LA	29. 0 years
	Texas A&M University, College Station, TX	3. 0 years
	The University of Texas at Austin, TX	1. 5 years
	Centralia College, Centralia, WA	1. 5 years
	Bangladesh Institute of Management (earlier BMDC)	1. 5 years
<i>Industrial:</i>	NASA (MSFC, KSC and JSC)	6 months
	US Army Corps of Engineers, Vicksburg, MS	9 months
	World Bank, Washington, DC	6 months
	Energy Research Center, OU-Norman, OK	1 year
	Jay Engineering Company, Calcutta, India	5 months
	GODREJ & Boyce Mfg. Company, Bombay, India	3 months

**PUBLICATIONS:**

<i>Textbook</i> (Production & Supply Logistics Systems)	1 Manuscript
<i>Book Chapters</i>	6 Papers
<i>Book Reviews</i>	14 Textbooks
<i>Refereed Journal Articles</i>	157 Papers
<i>Conference Proceedings</i>	91 Papers
<i>Conference Presentations</i>	85 Papers
<i>Symposiums/workshops attended</i>	31 Attendance
<i>Invited lectures/Conducted workshops</i>	46 Lectures
<i>Papers under Review by Journals</i>	24 Papers
<i>Total Citations in Google Scholar (Hirsch-index = 48)</i>	7110 Citations

**NATIONAL AWARDS:** 2006 IIE David F. Baker Distinguished Research Award  
Best Dissertation Awards from IIE (1991), DSI (1990) and POMS (1990).

**EDITORIAL BOARDS:** IIE Trans, C&OR, EJOR, IJPR, IJPE, IJPAMS, PPC, APJOR, and JAMDS.

**TEACHING AWARDS:** Most Valuable Professor, IE Professor of the Year and Dean's Recognition.

**CITATION/SCHOLAR.:** United Nations Scholar, cited by Voice of America, Who's who in America, etc.

**SPONSORING AGENCIES:** NSF, ARO, NASA USACE, ONR, LEQSF, IBM, and Pritsker Associates.

**POST-DOC/THESIS SUPERVISION:** Post-doc Fellows: 12; PhD: 8 (Completed); MS: 32 (Completed).

**SOCIETY MEMBERSHIP:** ASEE, DSI, IEEE, IIE, INFORMS, POMS, AAUP, and NY Academy of Sc.

**NATIONALITY:** U. S. Citizen.

## BHABA RANJAN SARKER

### OFFICE ADDRESS:

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3290T Patrick F. Taylor Hall, Baton Rouge, LA 70803  
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E-mail: bsarker@lsu.edu  
Website: <https://www.lsu.edu/eng/mie/people/faculty/sarker.php>

### RESEARCH AND TEACHING INTERESTS:

Production and Manufacturing Systems Engineering: Production Planning & Control, Flexible/Cellular Manufacturing Systems, Material Handling, Scheduling, Location Theory, JIT Inventory Systems, Warehouse Logistics and Distribution, Lean Manufacturing, Supply Chain Management, Healthcare Supply Logistics, Renewable Energy Systems, and Operations Research.

### Additional Teaching Interests:

*Linear and Nonlinear Programming, Network Optimization, Queuing Theory, Applied Probability and Statistics, Quality Control, Reliability Engineering and Systems Simulation.*

### EDUCATION:

PhD (IE)	<b>Texas A&amp;M University</b> , College Station, TX <i>Major:</i> Industrial Engineering (1989)
IE (Engr)	<b>Syracuse University</b> , Syracuse, NY <i>Major:</i> Post-MS Degree of Industrial Engineer (1982)
MS (Eng. Admin.)	<b>Syracuse University</b> , Syracuse, NY <i>Major:</i> Engineering Administration (1979)
MTech (IE&OR)	<b>Indian Institute of Technology</b> , Kharagpur, India <i>Major:</i> Industrial Engineering & Operations Research (1976)
BScEngg (Mech)	<b>Bangladesh University of Engineering &amp; Technology</b> , Dhaka <i>Major:</i> Mechanical Engineering (1974)
BA (Arts & Math)	<b>University of Dhaka</b> , Dhaka, Bangladesh <i>Major:</i> General Arts, with distinction in Mathematics (1972)

<b>P. E.</b>	<b>Professional Engineer</b> (Louisiana License #32879), December 21, 2006
<b>FELLOW</b>	<b>Institute of Industrial Engineers (USA)</b> , May 2003.
<b>FELLOW</b>	<b>South Asia Institute of Science and Technology (SAISE)</b> , #2014-0617003)

### Dissertation/Theses:

*PhD Dissertation:* "The Amoebic Matrix and One-Dimensional Machine Location Problems," Department of Industrial Engineering, Texas A&M University, College Station, TX 77843, September 26, 1989 (345 pages); *UMI #DA90-15575*, **51**(1), July 1990, p. 369B, [*Co-advisors:* Prof. Wilbert E. Wilhelm and Prof. Gary L. Hogg]. **Best Dissertation Awards (DSI, IISE, POMS).**

*I. Engr. Thesis:* "A Generalized Approach for Serial or Parallel Line Balancing," Department of Industrial Engineering and Operations Research, Syracuse University, May 1, 1982 [*Advisor:* Professor J. G. Shanthikumar, University of California, Berkeley, CA].

*M. Tech. Thesis:* "A Comparative Study of Some Assembly Line Balancing Techniques," Indian Institute of Technology, Kharagpur, June 15, 1976 [*Advisor:* Professor N. Prakasa Rao].

*B. Sc. Engg. Thesis:* "Buckling under Eccentric Tensile Load," Bangladesh University of Engineering and Technology, Dhaka, January 10, 1974 [*Advisor:* Professor Anwar-ul Karim].

## 1. EXPERIENCES AND WORK HISTORY:

**LOUISIANA STATE UNIVERSITY, BATON ROUGE, LA**  
**Department of Mechanical & Industrial Engineering**  
*Professor-in-Charge, Logistics & Supply Chain Systems*  
*Coordinator, IE Graduate Program and Admissions*  
*Coordinator, IMSE Graduate Program*  
*Elton G. Yates Distinguished Professor of Engineering*  
*Professor*  
*Associate Professor*  
*Assistant Professor*

July 2002 – Present  
July 2010 – June 2012  
Jan 2000 – June 2002  
July 2003 – Present  
August 2000 – June 2003  
Aug 1996 – Aug 2000  
Aug 1990 – Aug 1996

Teaching/research in the area of production and manufacturing systems, just-in-time inventory systems, supply chain management, lean production systems, simulation, sequencing and scheduling, location theory, and operations research.

**U. S. ARMY CORPS OF ENGINEER RESEARCH AND DEVELOPMENT CENTER, Vicksburg, MS:**  
**Geotechnical Laboratory—Mobility Systems Modeling Branch**

*Summer Faculty Research Fellow*

May 2004 – Aug 2004

Computation of transportation network capacity from sparse data sources. Methods are developed to estimate the arc/route capacity for network various characteristics and terrain conditions, to evaluate the network throughput rate emanating from a seaport or airport.

**LOUISIANA STATE UNIVERSITY, BATON ROUGE, LA**  
**Department of Industrial and Manufacturing Systems Engineering**  
*Graduate Program Coordinator*

Jan 2000 – June 2002  
July 2010 – June 2012

To administer the IMSE Graduate Program of about 70-80 students of which about 15-20 were doctoral students. Processing admissions, assistantships, monitoring students' progress, graduate assignments, and updating graduate curriculum.

**NASA JOHNSON SPACE CENTER, HOUSTON, TX**  
**Safety, Reliability and Quality Assurance Office (JSC):**  
*Summer Faculty Fellow*

May 2002 – Aug 2002

Diagnosis, identification, and evaluation of human factors errors, and *process failure modes and effects analysis (PFMEA)* for efficient and effective operations of Space Shuttle systems.

**NASA MARSHALL SPACE FLIGHT CENTER/KENNEDY SPACE CENTER:**  
**Systems Management Office (MSFC), and**  
**Process Integration Office (KSC):**

*Summer Faculty Fellow*

May 2001 – Aug 2001

Task assessments and development of a roadmap for research on second-generation space launch initiatives and reusable launch vehicle. Study of Orbiter Processing Facilities at KSC.

**UNIVERSITY OF RHODE ISLAND, KINGSTON, RI:**  
**Department of Industrial and Manufacturing Systems Engineering**  
*Visiting Research Professor*

May 20 – June 3, 2000

Research on optimal flow line design with one-dimensional and two-dimensional product flow (Host: Dr. Manbir Sodhi).

**U. S. ARMY CORPS OF ENGINEERS - Waterways Experiment Station, Vicksburg, MS:**  
**Hydraulics Laboratory—Estuaries Division:**

*Summer Faculty Research Fellow*

May 1996 – Aug 1996

Time series analysis and system simulation for an estuarial system to predict the effect of salinity and other fluid pollutants in oceanographic and riverine systems.

**U. S. ARMY CORPS OF ENGINEERS - Waterways Experiment Station, Vicksburg, MS:**  
**Geotechnical Laboratory—Mobility Systems Branch**

*Summer Faculty Research Fellow* May 1993 – Aug 1993  
Conceptualization of army mobility problems--engineer resources planning for roads and bridges during the military operations in global mapping system.

**TEXAS A&M UNIVERSITY**, College Station, TX

**Department of Industrial Engineering**

*Assistant Professor (Visiting)*

Jan 1990 - May 1990

*Lecturer and Graduate Assistant*

Sep 1987 - Dec 1989

Taught undergraduate courses on Production Control Systems which dealt with production planning, inventory control, and scheduling. Conducted LAB and problem session.

**THE UNIVERSITY OF TEXAS AT AUSTIN**, Austin, TX

**Department of Management**

*Instructor*

Jan 1986 - Aug 1987

Taught a course on Production Management designed for junior and senior level students in business management and engineering. The class sizes were between 21 and 60 students.

**CENTRALIA COLLEGE**, Centralia, WA

**Division of Business Management and Computer Science**

*DP & CS Instructor*

Aug 1984 - Dec 1985

Developed and taught courses in BASIC, COBOL, FORTRAN, CIS, Computer Logic, Systems Analysis, and developed vocational training programs in business and engineering.

**THE UNIVERSITY OF OKLAHOMA**, Norman, OK

**Department of Industrial Engineering and Energy Resources Center**

*Research /Teaching Assistant*

Sep 1983 - Jul 1984

*Research Assistant*

Jan 1983 - May 1983

Developed energy storage model for electronic power systems for over-production of electric power. Performed statistical analysis and used SAS at Stat Lab in Energy Research Center.

**WORLD BANK**, Washington, DC

**East-African Region**

*Systems Analyst*

May 1983 - Sep 1983

Enhanced programs and graphics, and maintained a package HANDE used for analytical work in economics, finance and accounting for about 2000 program officers in the bank. Improved the data array and the statistical output tables for the package.

**OKLAHOMA STATE UNIVERSITY**, Stillwater, OK

**Department of Industrial Engineering and Management**

*Halliburton Research Assistant*

Sep 1981 - Dec 1982

Explored possible use of MOVIE. BYU for application to product design and layout. Used assembly language on microprocessor for process control; extended to other applications.

**WORLD BANK**, Washington, DC

**Central Procurement Unit**

*Systems Analyst*

May 1980 - Aug 1980

Developed an MIS for repetitive procurement materials to use in operations and planning. Classified most frequent items; used ABC analysis for classification; forecasting and analyzing the price trend for steel market.

**SYRACUSE UNIVERSITY**, Syracuse, NY

**Department of Industrial Engineering and Operations Research**

*Research /Teaching Assistant*

Jan 1980 - Aug 1981

Responsible for modeling and analysis of software life cycle costs. Used APL, FORTRAN, SPSS, SURFACE-II and graphics packages. Taught courses on probability and statistics

**BANGLADESH INSTITUTE OF MANAGEMENT** (earlier **BMDC**), Dhaka

**Productivity and Vocational Training Department**

*Management Counselor & Head of Division*

Jan 1977 - Sep 1978

Developed, coordinated and taught practice-oriented courses in Production and Materials Management, QC, Work Study, Quantitative Decision Analysis, and Plant Layout. Guided industrial training programs and implemented many IE techniques in different industries.

**BANGLADESH UNIVERSITY OF ENGINEERING AND TECHNOLOGY, Dhaka**  
**Department of Mechanical Engineering**

*Research Fellow*

Jul 1976 - Dec 1976

Study of information system on spare parts availability and production for improved utilization of production facilities for textile companies [PD: Dr. M. Anwarul Azim].

**JAY ENGINEERING COMPANY, Calcutta, India**

**Usha Fan Factory (Fan Assembly Line)**

*Graduate Thesis Intern*

Jan 1976 – June 1976

Developed operation standards. Forecast demand to integrate multi-shift schedules. Balanced and re-designed a multi-model assembly line for varying production rates. Analyzing alternative workforce schedules.

**GODREJ AND BOYCE MANUFACTURING COMPANY, Bombay, India**

**Filing Cabinet and Cupboard Plant**

*Graduate Summer Intern*

May 1975 - Jul 1975

Developed time-scaled utilization profile of a bending press shop. Identified delays, determined line efficiency by flow analysis. Standardized the operations and estimated manpower on the line.

**KARNAPHULI ELECTRIC COMPANY**

**Manufacturing Plant and On-Site Workshop**

*Mechanical Engineer*

Jan 1974 - Sept 1974

Design and supervised mechanical fabrication and construction of different power transmission materials like electric transmission poles, cantilever hanger, supervision rod, ladder, etc. In the fabrication shop, he was in charge of two supervisors and 15-20 workers.

**(A) NON-TECHNICAL EXPERIENCE (JOURNALISM):**

**The Bangladesh Observer** (Best Daily Newspaper in Dhaka)

*BUET (Varsity) Correspondent*

Jan 1969 - Dec 1972

Reporting news (academic, students' affairs, cultural affairs, students' political events and other activities on campus) and writing feature articles on students' residential problems from within and/or relating to Bangladesh University of Engineering and Technology (BUET).

**(B) INTERNATIONAL COLLABORATION:**

**Bangladesh University of Engineering and Technology (BUET), Dhaka**

*Department of Industrial & Production Engineering*

*Visiting Professor*

Dec 2003 - Jan 2004

Conducted 10-day workshop on developing research capability in supply chain management under AIBS (American Institute of Bangladesh Studies) Fellowship Program for about 20 faculty members of all technical universities in Bangladesh.

**Bangladesh University of Engineering and Technology (BUET), Dhaka**

*Department of Industrial & Production Engineering*

*Visiting Professor*

Dec 2005 - Jan 2006

Offered an accelerated graduate level course on Supply Chain Management to 28 graduate students at BUET. Most participants were full-time junior faculty and part-time industrial engineers from various industries.

**Sun Yat-Sen University (SYSU), Guangzhou 510275, Guangdong, PR China**

*Department of Management Sciences, School of Business*

*Visiting Scholar*

Dec 10, 2009 – Dec 26, 2009

July 22, 2011 – July 26, 2011

Dec 10, 2012 – Dec 17, 2012

Collaborated on research in just-in-time production and delivery systems, supply chain management, warehousing, distribution and routing, on an International Exchange & Cooperation Program of China.

**International Collaboration on NSF/La EPSCoR Project, China and Hong Kong**

*Delegation Member*

July 8, 2011 – July 31, 2011

Delegation to 8 universities in China and 3 universities in Hong Kong for three weeks (Collaborated on research in Global Supply Chain Management on an International Exchange & Cooperation Program with China).

- Tsinghua University, Beijing
- Central University of Finance & Economics, Beijing
- Beihang University, Beijing
- Shanghai Jiao-Tong University, Shanghai
- Fudan University, Shanghai
- Huazhong University of Science & Technology, Wuhan
- Wuhan University of Technology, Wuhan
- Sun-Yat Sen University, Guangzhou
- Hong Kong Polytechnic University,
- Hong Kong University of Science & Technology, and
- City University of Hong Kong)

**Beihang University (BUAA), Beijing, PR China**

*Department of Automation Science and Electrical Engineering*

*Visiting Professor*

July 19, 2012 - August 5, 2012

Collaborated research on cloud manufacturing, parallelization in cloud manufacturing and simulation, and game theoretic research in supply chain and cloud manufacturing. Delivered lectures on research methodology to train graduate students for research, technical writing, and publications.

**International Collaboration (Ministry of Science & Technology, Taiwan)**

*Guest Speakers*

May 14-27, 2016

Delivered lectures on (a) optimization in product design, manufacturing systems and supply chain systems, (b) Management perspectives on global green supply chain (c) Art of Technical Writing and Meeting Publication Criteria at

- Chung-Yuan Christian University (CYCU), Taoyuan (Host: Shy-Der Lin, Dean)
- Chaoyang University of Technology (CYUT), Taichung (Host: Horng-Chyi-Horng)
- National Chin-Yi University of Technology (NCUT), Taichung (Host: Li-Chiao Lin) and
- Chinese Overseas University (OCU), Taichung (Taiwan). (Host: Kuo-Lung Hou).

**Wuhan University of Technology (WUT)—Mafang Shan, Wuhan, Hubei province, PR China**

*Department of Industrial & Systems Engineering*

*Visiting Professor*

July 10, 2016 – July 31, 2016

Teaching nonlinear mathematical modeling for manufacturing and manufacturing systems, and research collaboration in supply chain system, logistics planning for production and delivery systems, and automation in gear manufacturing and quality control.



**Sun Yat-Sen University (SYSU), Guangzhou 510275, Guangdong, PR China**

*Department of Management Sciences, School of Business*

*Visiting Professor*

August 1, 2016 - August 15, 2016

Research collaboration on Internet of Things (IOT) Technology, Research of Chinese Manufacturing Industry Transformation/Upgrading and Operations Management in the Internet plus Environment. Lectures on technical writing and research methodology.

## **2. EDITORIAL BOARDS/PROFESSIONAL MEMBERSHIP**

### **(A) MEMBER OF PROFESSIONAL SOCIETIES:**

#### ***Past Membership:***

1. American Association of Bangladesh Engineers, Member (1990-94)
2. Society of Manufacturing Engineers, Member (1992-96)
3. Ahsanullah (BUET) Engineering Association, Kolkata, India (1995-2003)
4. Institute of Electrical and Electronics Engineers, Member #402-24396 (1997-2006)

#### ***Current Membership:***

- Alpha Pi Mu Honor Society, Life Member (1994-)
- American Association of University Professors (AAUP, Membership #9909005), 2009-
- American Society of Engineering Education, Member #38260 (1996-)
- Decision Sciences Institute (DSI), Member (1987-)
- DSI-Southwest Federation of Administrative Disciplines (SWFAD), Member (1992-)
- Institute For Operations Research and Management Science, Full Member #172202 (1978-)
- Institute of Industrial Engineers (IIE), *Fellow* #463-1247 (2003-)
- New York Academy of Sciences, Member #49-1884 (1998-)
- Louisiana Engineering Society, Member (2007-)
- National Society of Professional Engineers, USA Member #300 00 8504 (2007-)
- Production and Operations Management Society (POMS), Member (1990-2001, 2010-)

**P. E. Professional Engineer** (Louisiana License #32879), December 21, 2006

### **(B) EDITORIAL BOARD MEMBERSHIP:**

#### ***Served Previously:***

- *Advances in Decision Sciences* (Editorial Board, 2009- 2013)
- *Asia-Pacific Journal of Operational Research* (Area Editor, 2000-2006)
- *Computers & Operations Research* (Member of Editorial Board, 2002-2006)
- *European Journal of Operational Research* (Member of Editorial Board, 2003-2010)
- *IIE Transactions on IE Research* (Area Editor, 1993-1996),
- *IIE Transactions on Operations Engineering* (Associate Editor, 1996 -2001),
- *IIE Transactions on Design and Manufacturing* (Department Editor, 2001-2009)
- *International Journal of Production Research* (Member of Editorial Board, 2002-2005)
- *International Journal of Pure & Applied Mathematical Sciences* (Ed Board, 2004-2008)
- *Journal of Manufacturing Systems* (Associate Editor, 2001-2003)
- *Journal of Applied Mathematics and Decision Sciences* (Associate Editor, 2000-2009)
- *Production & Operations Management* (Member of Editorial Review Board, 1992 -99).
- *Production Planning & Control* (Member of Editorial Board, 1991-2015)

***Serving Currently:***

- *American Journal of Operations Research* (Editorial Board, 07/2011-)
- *International Journal of Production Economics* (Associate Editor, 1998-)
- *International J. of Logistics and Transportation Research* (Editorial Board 2011-)
- *International J. of Service and Computing Oriented Mfg.* (Editorial Board 2011-)

### **3. AWARDS/PRIZES/RECOGNITION**

**(A) NATIONAL/INTERNATIONAL PROFESSIONAL SOCIETY AWARDS:**

<b>FELLOW</b>	<b>South Asia Institute of Science and Technology</b> ( <i>SAISE</i> , #2014-0617003)
<b>FELLOW</b>	<b><i>Institute of Industrial &amp; Systems Engineers (USA), 2003</i></b> Awarded by the IIE in Hilton Portland, OR; May 20, 2003 (See <i>Industrial Engineering</i> magazine, Vol. 35, No. 6, June 2003).
<b>P. E.</b>	<b>Professional Engineer</b> (Louisiana License #32879), December 21, 2006

**(B) NATIONAL/INTERNATIONAL RESEARCH AWARDS:**

***Best Track Paper Award, EU IEOM Conference, La Defense, Paris, France*** (July 27, 2018)

***Best Paper Award, AAER International Conference, Manila, Philippines*** (May 16, 2018)

<b>WINNER</b>	<b><i>IIE: Dr. David F. Baker Distinguished Research Award, 2006</i></b> Awarded (only one award per year) by the Institute of Industrial Engineers, in Orlando, FL, May 21, 2006 ( <i>Industrial Engineer</i> , <b>38</b> (7), July 2006, pp. 56-57; <i>Decision Line</i> , <b>37</b> (4), July 2006, p. 13; <i>OR/MS Today</i> , <b>33</b> (4), July 2006, p. 59). [Highest recognition by IIE for significant contributions to the advancement and progress of the industrial engineering profession through outstanding research. It is given for a career of accomplishments that have broadly benefited practitioners, organizations or other researchers, rather than for a single activity or application].
<b>WINNER</b>	<b><i>IIE: Best Doctoral Dissertation Competition, 1991</i></b> Awarded by the Institute of Industrial Engineers, in Detroit, MI, May 22, 1991 ( <i>Industrial Engineering</i> , Vol. 23, No. 6, June 1991).
<b>WINNER</b>	<b><i>DSI: Elwood S. Buffa Doctoral Dissertation Competition, 1990</i></b> Awarded by Decision Science Institute in San Diego, CA, November 20, 1990 ( <i>Decision Line</i> , Vol. 22, No. 1, December-January 1991, pp. 27-28).
<b>RUNNER-UP</b>	<b><i>POMS: Best Doctoral Dissertation Competition, 1990</i></b> Awarded by Production and Operations Management Society in Washington, DC, October 16, 1990 ( <i>POM Chronicle</i> , Vol. 2, No. 1, Winter 1991, p. 3).



**(C) TEACHING/RESEARCH AWARDS:**

***2018 LSU Distinguished Faculty Award Winner (April 5, 2018)***

This award recognizes LSU faculty members who have a sustained record of excellence in teaching, research, service, or any combination of the three and honors them with a salary increase of \$2,000 and a commemorative watch from the LSU Alumni Association.

***IE Outstanding Professor of the Year (April 24, 2014)***

For excellent teaching at the Department of Mechanical & Industrial Engineering, Louisiana State University (selected by popular votes of graduate and undergraduate students and organized by Alpha Pi Mu Honor Society).

***IE Outstanding Professor of the Year (April 28, 2010)***

For excellent teaching and research at Department of Construction Management & Industrial Engineering, Louisiana State University (organized by Alpha Pi Mu Honor Society and selected by popular votes of graduate and undergraduate students).

***Rainmakers Award, LSU (2008)***

Recognized with the *Rainmaker Award* that is selected for outstanding research at Louisiana State University, Baton Rouge, LA; October 15, 2008.

***Recognition by Dean (1991, 1994, 1996)***

For outstanding teaching at the College of Engineering, Louisiana State University (based on students' evaluation).

***IE Professor of the Year (1992)***

For excellent teaching at the Department of Industrial & Manufacturing Systems Engineering, Louisiana State University (selected by popular votes of graduate and undergraduate students and organized by Alpha Pi Mu Honor Society).

***Most Valuable Professor Award (1989)***

For excellent teaching at the Department of Industrial Engineering, Texas A&M University (selected by popular votes of graduate and undergraduate students, and organized by Alpha Pi Mu Honor Society).

**(D) SERVICE AWARDS:**

***25-year Service Award:***

Given in recognition of 25-year service at LSU for dedicated commitment and loyal service, April 1, 2015.

***20-year Service Award:***

Given in recognition of 20-year service at LSU for dedicated commitment and loyal service, May 2010.

**15-year Service Award:**

Given in recognition of 15-year service at LSU for dedicated commitment and loyal service, May 2005.

**10-year Service Award:**

Given in recognition of 10-year service at LSU for dedicated commitment and loyal service, May 2000.

**(E) RECOGNITION FOR SUPERVISED RESEARCH:**

1. Second Place **1995 IIE Graduate Research Award** to Vijay S. Nori for the MS Thesis “A Branch and Bound Approach to Solve One-dimensional Machine Location Problem,” (Supervisor: Bhaba Sarker) awarded at the Industrial Engineering Conference, Nashville, TN; May 23, 1995.
2. **Citation of Excellence** by the ANBAR Hall of Excellence for highest quality paper, September 1999: Sarker, B. R. and Mondal, S., “Grouping efficiency measures in cellular manufacturing: A survey and critical review,” *International Journal of Production Research*, Vol. 37, No. 2, February 1999, pp. 285-314.
3. Second Place **2001 IIE Graduate Research Award** to Ahmad Diponegoro for the MS Thesis entitled “Machine location in a multi-product flowline,” (Supervisor: Bhaba Sarker) awarded at the Industrial Engineering Solutions Conference, Dallas, May 21, 2001.
4. First Place **2017 IISE Graduate Research Award** to Md. Shahriar J. Hossain for the MS Thesis entitled “Optimal Configuration of Inspection and Rework Stations in a Multistage Flexible Flowline,” An MS Thesis, 148 pages, LSU-MIE Department, March 15, 2016 (Supervisor: Bhaba Sarker) awarded at the Institute of Industrial & Systems Engineering Conference, Pittsburgh PA, May 20-23, 2017.
5. **2018 AAER Best Paper Award in Engineering, Technology and Applied Science:**  
*On the paper titled “Optimal usable time and required number of tools in a magazine in steel pipe manufacturing,” by Sarker, B. R. and Hossain, M. S. J. in AAER International Conference on Communication, Engineering, Data Mining, Information Technology & Applied Sciences (CEDIA); Hotel H<sub>2</sub>O, Chic Marine Park, Luneta, Manila 1000, Philippines; May 17-18, 2018.*
6. **2018 IEOM Best Track Paper Award, Paris, France:**  
*On the paper titled ID-154 (Inventory Management): “Optimal Vendor-Buyer Cooperative Inventory Policy for Order Size Dependent Transportation Cost,” by Sharon Orenge, Md. Shahriar J. Hossain and Bhaba R. Sarker, B. R. at the 2<sup>nd</sup> EU IEOM Conference in Paris; at Renaissance Paris La Defense Hotel, Friday, July 27, 2018.*

**(F) RECOGNITION BY LEARNED COMMUNITY:**

1. *1994 Who's Who among Asian Americans* (Gale Research, Inc.),
2. Listed in *International Directory of Distinguished Leadership*, 5th ed., 1994-1995.
3. Listed in the *Most Admired Men and Women of the Year 1994-95*, 2nd edition, American Biographical Institute, Inc.

4. Listed in *Who's Who in Science and Engineering* (5<sup>th</sup> and 6<sup>th</sup> editions, 2000-2001), Marquis Publications, New Providence, NJ 07974.
5. Listed in *Who's Who in America* (55<sup>th</sup> edition, 2001; 58<sup>th</sup> edition 2004), Marquis Publications, New Providence, NJ 07974.
6. Listed in *Strathmore's Who's Who* (2000-2001 edition), Strathmore Directories Ltd., Westbury, NY 11590.
7. *INFORMS Speakers Bureau Member* (November 2001 -): Manufacturing Systems, Just-in-time Production, Supply Chain Systems, Job Routing and Machine Locations and Cellular Manufacturing.
8. Listed in *Who's Who in Engineering Education (WWE)*, 2002 edition.

**(G) CITATIONS BY PUBLIC/MASS MEDIA**

1. *Voice of America (Radio Broadcast) - East Asia Bengali Program*, Washington, DC: A personal interview on "The Dissertation Competition by DSI and POMS," conducted and broadcast by Sarkar Kabiruddin, November 15, 1990 (10 AM-11 AM EST, and 10. PM - 11 PM Bangladesh Standard Time).
2. *Voice of America (Radio Broadcast) – South-East Asia Bengali Program*, Washington, DC: A personal interview on "David F. Baker Distinguished Research Award," conducted and broadcast by Ms. Roquia Haider, May 23, 2006 (11 AM-12 AM EST, and 10. PM - 11 PM Bangladesh Standard Time, VOA-I).
3. *The Thikana*, A Bengali newspaper from New York, NY published a feature news item under the caption "*Bangali Engineer Won the National Award*" reported by ENA (Eastern News Agency) from Florida on "Dr. David F. Baker Distinguished Research Award" given by IIE [*The Thikana*, Friday, May 26, 2006 issue; page 29, Column 1].

**(H) FELLOWSHIP AND SCHOLARSHIP AWARDS:**

- National Merit Scholar (Bangladesh), 1965-1973.
- Indian Post-Graduate Fellowship, 1974-1976.
- United Nations Development Program (UNDP) Fellowship, 1978-1980.
- USACE-WES Summer Faculty Fellowship (ERDC, Vicksburg, MS), 1993
- USACE-WES Summer Faculty Fellowship (Geo-Tech Lab, Vicksburg, MS), 1996
- NASA-ASEE Summer Faculty Fellowship (Marshall Space Flight Center), 2001
- NASA-ASEE Summer Faculty Fellowship (Johnson Space Center), 2002
- USAC-ERDC, Summer Faculty Fellowship (Vicksburg, MS), 2004.
- Fellowship, American Institute of Bangladesh Studies (AIBS), USAID program, 2006.

**(I) WORLD TOP 20 MOST PRODUCTIVE RESEARCHER/AUTHOR IN POM (1959-2009): A SURVEY**

[Ref.: Hsieh P. -N. and Chang, P. -L., "An assessment of world-wide research productivity in production and operations management," *International Journal of Production Economics*, August 2009, **120**(2): pp. 540-551]:

World-wide Rank (Bhaba Sarker):	6 <sup>th</sup> in POM* (1999-2009)
World-wide Rank (Bhaba Sarker):	10 <sup>th</sup> in POM (1989-1998)
World-wide Rank (Bhaba Sarker):	17 <sup>th</sup> in POM (1959-2009)
World-wide Rank (Bhaba Sarker):	20 <sup>th</sup> in 5 leading POM journals (1959-2009)

\*POM's (Production and Operations Management) five leading journals: *Management Science*, *Operations Research*, *European Journal of Operational Research*, *International Journal of Production Research*, and *Mathematics of Operations Research*.

#### **(J) PLENARY AND KEYNOTE SPEECH**

1. *Keynote Speech IV at INDIN2012: IEEE 10th International Conference on Industrial Informatics*: “Manufacturing Informatics and Optimization: Problems, Research Trend and Some Perspectives” at the 1<sup>st</sup> Room of New Main Building Conference Center (NMBCC, Friday July 27, 2012), organized by IEEE/Beihang University, Beijing at Vision Hotel, July 25-27, 2012 (POC: Professor Fei Tao, BUAA).
2. *Plenary Speech, 2015 3rd Asia Conference on Mechanical and Materials Engineering (ACMME-2015)*, Chengdu, China, July 23-24, 2015 [Organized by South Asia Institute of Science and Engineering (SAISE), invited on September 24, 2014 by General Chair, Prof. Shinn-Liang Chang and Prof. Gong Hao: POC: Lyn Lee, Email: [lynlee@saise.org](mailto:lynlee@saise.org)].

## **4. PUBLICATIONS AND PUBLIC DISSEMINATIONS:**

### **(A) TEXTBOOKS:**

1. Sarker, B. R., *Production and Supply Logistics Systems* (500-600 printed pages: manuscript under preparation, 70% completed).

### **(B) BOOK CHAPTERS WRITTEN:**

1. Sarker, B. R., Wilhelm, W. E., Hogg, G. L. and Han, M. H., “Backtracking of Jobs and Machine Locations Problems,” *Progress in Material Handling and Logistics: Material Handling '90*, Vol. 2, Eds. John A. White and Ira W. Pence (Springer-Verlag, Berlin; ISBN: 0-387-53442-2), January 1991, Section 2, pp. 117-141 [35 pages].
2. Sarker, B. R., Xu, Y. and Li, Z., “Job routing in a multi-product manufacturing system” in *Progress in Material Handling Research: 1998*, Eds. Robert J. Graves, Leon F. McGinnis, Debra J. Medeiros, Richard E. Ward and Mickey R. Wilhelm (Braun-Brumfield, Inc., Ann Arbor, MI; ISBN: 1882780-03-5), June 1998, pp. 481-505 [15 pages].
3. Sarker, B. R., Webster, D. B. and Ray, T. G., “Production Planning” (Chapter 4 in Part 1) in *Mechanical Engineer's Handbook: Manufacturing and Management*, 3<sup>rd</sup> Edition, 2006, ISBN: 13-978-0-471-44990-4, Edited by Myer Mutz, John-Wiley & Sons, Inc., New York, NY; pp. 110-172 [63 pages].
4. Sharma, P. Sarker, B. R. and Romagnoli, R. A., “Integrated Framework for Enterprise Management—A Synergistic Approach Towards Sustainable Biorefineries,” (Chapter 11; 6 pages) in *20<sup>th</sup> European Symposium on Computer Aided Process Engineering* (ISBN: 978-04-4453-5691), Volume 28 (*Computer-Aided Chemical Engineering*, 1225 pages), Edited by S.

Pierucci and G. Buzzi Ferraris (CMCI Polytechnico di Milano, Milan, Italy), Elsevier, Amsterdam, July 1, 2010; pages 1009-1014 [6 pages].

5. Sarker, B. R., Duan, Q., Wu, B. and Yu, J., "Consignment Policy for Retailers," (Chapter 25) in *Managing Global Services Emerging Trends* (ISBN-978-81-7446-922-9), 1<sup>st</sup> edition, Edited by B. A. Metri, J. N. D. Gupta and B. S. Sahay, EXCEL Books, Naraina, Phase I, New Delhi 110 028, India, January 2011; pages 324-344 [21 pages].
6. Sarker, B. R., Rahman F. and Wang S., "Emergency Logistics and Supply Chains: Models and Practices in Humanitarian Disasters" in *Humanitarian Logistics and Supply Chains: Case Studies and Research Issues (Integrated Supply Chain Management)*, (ISBN-978-1-4200-4290-0), 288 pages, Edited by Dave M. Goldsman, Auerbach Publications; 1 edition (May 1, 2012), [26 pages].

#### **(C) BOOK REVIEWS IN REFEREED JOURNALS:**

1. Sarker, B. R.: *Discrete Location Theory*, edited by P. B. Mirchandani and R. L. Francis, 1st edition 1991, John-Wiley and Sons, Inc., New York, NY; in *European Journal of Operational Research*, Vol. 52, No. 6, June 1991, pp. 388-389.
2. Sarker, B. R.: *Progress in Material Handling and Logistics: Material Handling '90* (Vol. 2), edited by J. A. White and I. W. Pence, Springer-Verlag, Berlin, 1991; in *International Journal of Production Research*, Vol. 30, No. 7, July 1992, pp. 1737-1738.
3. Sarker, B. R.: *Performance Modeling of Automated Manufacturing Systems* by N. Viswanadham and Y. Narahari, 1st edition 1992, Prentice Hall, Inc., New York; in *IIE Transactions on Design and Manufacturing*, Vol. 25, No. 4, July 1993, p. 105.
4. Sarker, B. R.: *Modeling and Analysis of Manufacturing Systems* By Ronald G. Askin and Charles R. Standridge, 1st edition 1993, John-Wiley & Sons Inc., New York, NY; in *International Journal of Production Research*, Vol. 31, No. 10, October 1993, pp. 2509-2510.
5. Sarker, B. R.: *Practitioner's Guide to Quality and Process Improvement* By A. B. Badiru and B. J. Ayeni, 1st edition 1993, Chapman & Hall, Inc., London; in *International Journal of Production Research*, Vol. 32, No. 9, September 1994, p. 2731.
6. Sarker, B. R.: *Engineering Reliability: Fundamentals and Applications* By R. Ramakumar, 1st edition 1993, Prentice-Hall, Inc., Englewood Cliffs, NJ; in *International Journal of Production Research*, Vol. 33, No. 7, July 1995, pp. 2065-2066.
7. Sarker, B. R.: *System Approach to Computer-Integrated Design and Manufacturing* By Nanua Singh, 1st edition 1996, John Wiley & Sons, Inc., New York, NY; in *International Journal of Production Research*, Vol. 34, No. 8, August 1996, pp. 2375-2376.
8. Sarker, B. R.: *Factory Physics: Foundation of Manufacturing Management* By Wallace J. Hopp and Mark L. Spearman, 1st edition 1996, Richard D. Irwin, Inc., Chicago, IL; in *IIE Transactions on Design and Manufacturing*, Vol. 29, No. 1, January 1997, p. 89.
9. Sarker, B. R.: *Material Flow Systems in Manufacturing*, edited by J. M. A. Tanchoco, 1st edition 1994, Chapman & Hall, London, UK; in *IIE Transactions*, Vol. 29, No. 7, July 1997, p. 623.

10. Sarker, B. R.: *Re-engineering the Enterprise*, by Jim Browne and David O'Sullivan, 1st edition 1995, Chapman and Hall, London, UK; in *IIE Transactions*, Vol. 29, No. 9, September 1997, p. 807.
11. Sarker, B. R.: *Cellular Manufacturing Systems: Design, Planning and Control*, By Nanua Singh and Divakar Rajamani, 1st edition 1996, Chapman and Hall, London, UK; in *IIE Transactions*, Vol. 30, No. 1, January 1998, p. 107.
12. Sarker, B. R.: *Systems Maintainability: Analysis, Engineering and Management* By Jezdimir Knezevic, 1st edition 1997, Chapman and Hall, London, UK; in *International Journal of Production Research*, Vol. 37, No. 4, April 1999, p. 958-959.
13. Sarker, B. R.: *Production Planning and Scheduling in Flexible Assembly Systems* By Tadeusz Sawik, 1st edition 1999, Springer-Verlag, Berlin-Heidelberg, Germany (ISBN: 3-540-64998-0), in *International Journal of Production Research*, **37**(13), 1999, pp. 3115.
14. Sarker, B. R.: *Supply Chain Management: Strategy, Planning and Operation* By Sunil Chopra and Peter Meindl, 1st edition 2001, Prentice Hall, Upper Saddle River, NJ, (ISBN: 0-13-026465-2), *IIE Transactions*, Vol. 34, No. 2, February 2002, pp. 221-222.

#### **(D) ARTICLES PUBLISHED IN REFEREED JOURNALS:**

##### **1977-1987:**

1. Sarker, B. R., "Manpower Planning in a Continuous Production System: An Approximation," *Management Development*, Vol. 6, No. 3, July - September 1977, pp. 33-45 [13 pages].
2. Sarker, B. R., "A Decision Rule for Interference of Machines Producing Different Types of Products," *Journal of the Institution of Engineers (I)*, Vol. 61, Pt. ME 6, May 1981, pp. 211-215 [4 pages].
3. Sarker, B. R., "Finding Delay Positions and Times in a Line Production System," *Industrial Engineering Journal (I)*, Vol. XI, No. 3, March 1982, pp. 3-7 [5 pages].
4. Sarker, B. R., "Manpower Planning in a Continuous Production System: An Analytical Approach," *Journal of the Institution of Engineers (I)*, Vol. 63, Pt. ME 3, November 1982, pp. 87-91 [5 pages].
5. Sarker, B. R. and Shanthikumar, J. G., "A Generalized Approach for Serial or Parallel Line Balancing," *International Journal of Production Research*, Vol. 21, No. 1, January - February 1983, pp. 109-133 [25 pages].
6. Sarker, B. R., "Some Comparative and Design Aspects of Series Production Systems," *IIE Transactions*, Vol. 16, No. 3, September 1984, pp. 229-239 [11 pages].
7. Sarker, B. R., "Optimum Manpower Models for a Production System with Varying Production Rates," *European Journal of Operational Research*, Vol. 24, No. 3B, March 1986, pp. 447-454 [8 pages].



**1988:**

8. Sarker, B. R. and Harris, R. D., "The Effect of Imbalance in a Just-in-Time Production System: A Simulation Study," *International Journal of Production Research*, Vol. 26, No. 1, January 1988, pp. 1-18 [18 pages].
9. Sarker, B. R., "An Optimum Solution for One-Dimensional Slitting Problems: A Dynamic Programming Approach," *Journal of the Operational Research Society*, Vol. 39, No. 8, August 1988, pp. 749-755 [7 pages].

**1989:**

10. Sarker, B. R., "Simulating a Just-in-Time Production System," *Computers & Industrial Engineering*, Vol. 16, No. 1, January 1989, pp. 127-137 [11 pages].
11. Sarker, B. R. and Fitzsimmons, J. A., "The Performance of Push and Pull Systems: A Simulation and Comparative Study," *International Journal of Production Research*, Vol. 27, No. 10, October 1989, pp. 1715-1731 [17 pages].

**1990:**

12. Sarker, B. R., "An Economic Approach for Finding a Time-Scaled Utilization Profile for a Bending Press Shop," *Production Planning & Control*, Vol. 1, No. 2, April-June 1990, pp. 79-84 [6 pages].
13. Sarker, B. R., "The Amoebic Matrix and One-Dimensional Machine Location Problems," *Journal of Operations Management*, Vol. 9, No. 3, August 1990, pp. 439-440 [2 pages].

**1991:**

14. Sarker, B. R., "Service Time Distributions and the Performance of a Pull System: A Simulation Study," *Production Planning & Control*, Vol. 2, No. 1, January-March 1991, pp. 36-43 [8 pages].
15. Sarker, B. R., Sabapathy, A., Lal, A. M. and Han, M. H., "The Performance Evaluation of a Double Shuttle Automated Storage and Retrieval System," *Production Planning & Control*, Vol. 2, No. 3, July-September 1991, pp. 203-207 [5 pages].

**1992:**

16. Golhar, D. Y. and Sarker, B. R., "Economic Manufacturing Quantity in a Just-in-Time Delivery System," *International Journal of Production Research*, Vol. 30, No. 5, May 1992, pp. 961-972 [12 pages]. [Also see the response in Vol. 31, No. 11, 1993, p. 2749].

**1993:**

17. Sarker, B. R. and Babu, P. S., "Effect of Production Cost on Shelf Life," *International Journal of Production Research*, Vol. 31, No. 8, August 1993, pp. 1865-1872 [8 pages]. [Also see 'A reply to a technical note in Vol. 32, No. 9, September 1994, p. 2247; and a note by Viswanathan, S. in Vol. 33, No. 12, December 1995, pp. 3485-3486 and comments of S. K. Goyal on p. 3487].
18. (a) Jamal, A. M. M. and Sarker, B. R., "An optimal batch size for a production system operating under a just-in-time delivery policy," *International Journal of Production Economics*, Vol. 32, No. 2, September 1993, pp. 255-260 [6 pages].

- (b) Goyal, S. K. and Cárdenas-Barrón, L. E., Note on: "A reply to 'An optimal batch size for a production system operating under a just-in-time delivery policy,'" *International Journal of Production Economics*, Vol. 72, No. 1, June 2001, p. 99.
  - (c) Sarker, R. A., Reply to "Note on: An optimal batch size for a production system operating under periodic delivery policy," *International Journal of Production Economics*, Vol. 77, No. 1, 2002, pp. 89-90. [Also see Goyal, S. K., "Note: Reply to R. A. Sarker," *International Journal of Production Economics*, Vol. 77, No. 1, 2002, p. 91].
19. Sarker, B. R. and Golhar, D. Y., 'A reply to "A note on "Economic Manufacturing Quantity in a Just-in-Time Delivery System",', *International Journal of Production Research*, Vol. 31, No. 11, 1993, p. 2749 [1 page].
- 1994:**
20. Sarker, B. R. and Pan, H., "Effects of inflation and the time value of money on order quantity and allowable shortages," *International Journal of Production Economics*, Vol. 34, No. 1, February 1994, pp. 65-72 [8 pages].
  21. Sarker, B. R., Wilhelm, W. E. and Hogg, G. L., "Measures of Backtracking and Bi-directional Flow in One Dimensional Machine Location Problems," *Production Planning & Control*, Vol. 5, No. 3, May-June 1994, pp. 282-291 [10 pages].
  22. Sarker, B. R. and Parija, G. R., "An optimal batch size for a production system operating under a fixed-quantity, periodic delivery policy," *Journal of the Operational Research Society*, Vol. 45, No. 8, August 1994, pp. 891-900 [10 pages].
  23. Sarker, B. R., Wilhelm, W. E. and Hogg, G. L., "Backtracking and Its Amoebic Properties in One-Dimensional Machine Location Problems," *Journal of the Operational Research Society*, Vol. 45, No. 9, September 1994, pp. 1024-1039 [16 pages].
  24. (a) Sarker, B. R. and Yu, J., "A two-phase procedure for duplicating bottleneck machines in linear layout, cellular manufacturing system," *International Journal of Production Research*, Vol. 32, No. 9, September 1994, pp. 2049-2066 [18 pages].  
 (b) Errata: "A two-phase procedure for duplicating bottleneck machines in linear layout, cellular manufacturing system," *International Journal of Production Research*, Vol. 33, No. 1, January 1995, pp. 291-292 [2 pages].
  25. Sarker, B. R., Mann Jr., L. and DosSantos, J., "Evaluation of a class-based storage scheduling technique applied to dual-shuttle automatic storage and retrieval systems," *Production Planning & Control*, Vol. 5, No. 5, September-October 1994, pp. 442-449 [8 pages].
  26. Sarker, B. R., 'A reply to 'A note to "Effect of Production Cost on Shelf Life,"' *International Journal of Production Research*, Vol. 32, No. 9, September 1994, p. 2247 [1 page]. [Also see Viswanathan, S., "A note on 'Effect of production cost on shelf life'," *International Journal of Production Research*, Vol. 33, No. 12, December 1995, pp. 3485-3486 and comments of S. K. Goyal on p. 3487].
  27. Sarker, B. R., Krishnamurthy, S. and Kuthethur, S. G., "A survey and critical review of flexibility measures in manufacturing systems," *Production Planning & Control*, Vol. 5, No. 6, November-December 1994, pp. 512-523 [12 pages].

**1995:**

28. Sarker, B. R. and Parija, G. R., 'Viewpoint: On "An optimal batch size for a production System operating under a fixed-quantity, periodic delivery policy: A Response,"' *Journal of the Operational Research Society*, Vol. 46, No. 2, February 1995, pp. 273-274 [2 pages]
29. Waikar, A. M., Sarker, B. R. and Lal, A. M., "A comparative study of some priority dispatching rules under different shop loads," *Production Planning & Control*, Vol. 6, No. 4, July-August 1995, pp. 301-310 [10 pages].
30. (a) Sarker, B. R., Wilhelm, W. E., Hogg, G. L. and Han, M. H., "Backtracking of Jobs in One-Dimensional Machine Location Problems," *European Journal of Operational Research*, Vol. 85, No. 3, September 1995, pp. 593-609 [17 pages].  
(b) Errata: "Backtracking of Jobs in One-Dimensional Machine Location Problems," *European Journal of Operational Research*, Vol. 89, No. 1, February 1996, p. 221 [1 page].
31. Sarker, B. R. and Yu, J., "A balanced maintenance schedule for a failure-prone system," *International Journal of Quality and Reliability Management*, Vol. 12, No. 9, September 1995, pp. 181-189 [9 pages].
32. Sarker, B. R. and Babu, P. S., "Travel time models in automated storage/retrieval systems: a critical and comparative study," *International Journal of Production Economics*, Vol. 40, No. 2, December 1995, pp. 173-184 [12 pages].

**1996:**

33. Sarker, B. R., "The Resemblance Coefficients in Group Technology: A Survey and Comparative Study of Relational Metrics," *Computers & Industrial Engineering*, Vol. 30, No. 1, January-February 1996, pp. 103-116 [14 pages].
34. Sarker, B. R. and Parija, G. R., "Optimal batch size and raw material ordering policy for a production system with a fixed-interval, lumpy-demand delivery system," *European Journal of Operational Research*, Vol. 89, No. 3, March 1996, pp. 593-608 [16 pages].
35. Sarker, B. R. and Balan, C. V., "Cell formation with operations times for even distribution of workloads," *International Journal of Production Research*, Vol. 34, No. 5, May 1996, pp. 1447-1468 [22 pages].
36. Nori, V. S. and Sarker, B. R., "Cyclic scheduling for a multi-product, single-facility production system operating under a just-in-time delivery policy," *Journal of the Operational Research Society*, Vol. 47, No. 7, July 1996, pp. 930-935 [6 pages].
37. Sarker, B. R. and Yu, J., "Lot sizing and cyclic scheduling for multiple products in a flow shop," *Computers & Industrial Engineering*, Vol. 30, No. 4, September 1996, pp. 799-808 [10 pages].
38. Sarker, B. R., Coates, E. R. and Ray, T. R., "Manufacturing setup cost reduction," *Computers & Industrial Engineering*, Vol. 31, No. 1/2, October 1996, pp. 111-114 [4 pages].
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**1997:**

41. Sarker, B. R., Mukherjee, S. and Balan, C. V., "An order-level lot size inventory model for determining items with inventory-level dependent demand and deterioration," *International Journal of Production Economics*, Vol. 48, No. 2, February 1997, pp. 227-236 [10 pages].
42. Sarker, B. R. and Coates, E. R., "Manufacturing setup cost reduction under variable lead times and finite opportunities for investment," *International Journal of Production Economics*, Vol. 49, No. 3, March 1997, pp. 237-247 [11 pages].
43. Nori, V. S. and Sarker, B. R., "Reducing work-in-process movements of multiple products in one-dimensional layout problems," *Journal of the Operational Research Society*, Vol. 48, No. 4, April 1997, pp. 412-422, [IIE Graduate Research Award for this work in MS Thesis], [11 pages].
44. Jamal, A. M. M., Sarker, B. R. and Wang, S., "An ordering policy for deteriorating items with allowable shortage, and permissible delay in payment," *Journal of the Operational Research Society*, Vol. 48, No. 8, August 1997, pp. 826-833 [8 pages].
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**1998:**

46. Sarker, B. R., Wilhelm, W. E. and Hogg, G. L., "Locating sets of identical machines in a linear layout," *Annals of Operations Research*, Vol. 77, No. 1, January 1998, pp. 183-207 [25 pages].
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53. Waly, S. M. and Sarker, B. R., "Noise Reduction Using nonlinear Optimization Modeling," *Computers & Industrial Engineering*, Vol. 35, No. 1-2, October 1998, pp. 327-330 [4 pages].
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- 1999:**
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61. Sarker, B. R. and Islam, K. M. S., "Relative performance of similarity and dissimilarity measures," *Computers & Industrial Engineering*, Vol. 37, No. 4, May 2000, pp. 769-807 [39 pages].
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**2001:**

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(b) Erratum: "Measures of grouping efficiency in cellular manufacturing systems," *European Journal of Operational Research*, Vol. 138, No. 3, May 1, 2002; p. 676 [1 page].
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13. Waikar, A., Sarker, B. R. and Tate, U., "Evaluation of Performance Measures that affect work-in-process inventory under varying shop loads," *Final Program of the Fifth Annual Meeting of the Production and Operations Management Society*, Washington, DC, October 8-11, 1994, p. 15.
14. Sarker, B. R., Nori, V. S. and Waikar, A., "An Inventory Model with Intra-cycle Setups and JIT Delivery Policy," *Final Program of the Fifth Annual Meeting of the Production and Operations Management Society*, Washington, DC, October 8-11, 1994, p. 28.

15. Sarker, B. R. and Nori, V. S., "A B&B algorithm for minimizing Backtracking in Machine Location Problem," *Final Program of the Fifth Annual Meeting of the Production and Operations Management Society*, Washington, DC, October 8-11, 1994, p. 89.
16. Sarker, B. R., Babu, P. S. and Nori, V. S., "A Heuristic for Locating Machines along Material Handling Track," *TC10. 2: Final Program of the TIMS/ORSA Annual Meeting*, Detroit, MI, 24-26, October 1994, p. 84.
17. Waikar, A. M. and Sarker, B. R., "An EOQ model for inventory-dependent demand with allowable shortages," *Final Program of the American Society of Business and Behavioral Sciences*, Las Vegas, NV, January 3, 1995.
18. Waikar, A. and Sarker, B. R., "Operational analysis of highway stripping operation," *SA2. 2: Final Program of the Production and Operations Management Society*, Pittsburgh, PA, October 7-10, 1995.
19. Sarker, B. R., Webster, D. B. and Balan, C. V., "Operations planning for a time-proportionate demand in a multi-stage production system," *SB4. 4: Final Program of the Production and Operations Management Society*, Pittsburgh, PA, October 7-10, 1995.
20. Sarker, B. R., Waikar, A. M. and Balan, C. V., "Cell formation with operations times," *SC8. 1: Final Program of the Production and Operations Management Society*, Pittsburgh, PA, October 7-10, 1995.
21. Nori, V. S. and Sarker, B. R., "A relative assignment algorithm for cell formation," *SD5. 4: Final Program of the INFORMS (Institute For Operations Research and Management Science) National Meeting*, New Orleans, LA, October 29-November 1, 1995 (invited session), p. 9.
22. Coates, E. R., Sarker, B. R. and Waikar, A. M., "Setup cost reduction under variable leadtimes and finite opportunities for investment," *MC27. 2: Final Program of the INFORMS (Institute For Operations Research and Management Science) National Meeting*, New Orleans, LA, October 29-November 1, 1995, p. 47.
23. Yu, J., Sarker, B. R. and Webster, D. B., "Optimal lot-sizes and schedules for multiple products in a flow shop," *MD3. 2: Final Program of the INFORMS (Institute For Operations Research and Management Science) National Meeting*, New Orleans, LA, October 29-November 1, 1995, p. 50.
24. Sarker, B. R., Webster, D. B. and Balan, C. V., "Optimal planning for a multi-stage kanban system," *WB7. 2: Final Program of the INFORMS (Institute For Operations Research and Management Science) National Meeting*, New Orleans, LA, October 29 - November 1, 1995, p. 107.
25. Parija, G. R. and Sarker, B. R., "Manufacturing batch sizes for JIT deliveries to multiple customers," *WB33. 3: Final Program of the INFORMS (Institute For Operations Research and Management Science) National Meeting*, New Orleans, LA, October 29-November 1, 1995, p. 112.
26. Mann, L., Sarker, B. R., Triantaphyllou, E. and Mahankali, S. E., "Resource allocation for power restoration in an emergency situation," *WC15. 3: Final Program of the INFORMS (Institute For Operations Research and Management Science) National Meeting*, New Orleans, LA, October 29-November 1, 1995, p. 115.

27. Waikar, A. M. and Sarker, B. R., "Make vs. buy decision for multi-item and multi-supplier scenario under discount and resource constraints," *Final Program of the American Society of Business and Behavioral Sciences*, Las Vegas, NV, February 11-14, 1996.
28. Sarker, B. R. and Balan, C. V., "Operations planning for kanbans between two adjacent workstations," *19th International Conference on Computers & Industrial Engineering* (See *C&IE Conference Final Program*, p. 6), Miami, FL, March 4-6, 1996 [Published in *Computers & Industrial Engineering*, Vol. 31, No. 1/2, October 1996, pp. 221-224].
29. Sarker, B. R., Coates, E. R. and Ray, T. R., "Manufacturing setup cost reduction," *19th International Conference on Computers & Industrial Engineering* (See *C&IE Conference Final Program*, p. 7), Miami, FL, March 4-6, 1996 [Published in *Computers & Industrial Engineering*, Vol. 31, No. 1/2, October 1996, pp. 111-114].
30. Sarker, B. R., Mann, L., Triantaphyllou, E. and Mahankali, S. E., "Power restoration in emergency situations," *19th International Conference on Computers & Industrial Engineering* (See *C&IE Conference Final Program*, p. 12), Miami, FL, March 4-6, 1996 [Published in *Computers & Industrial Engineering*, Vol. 31, No. 1/2, October 1996, pp. 367-370].
31. Parija, G. R. and Sarker, B. R., "Just-in-time production inventory system for multiple products," *SE-18. 2: INFORMS (Institute For Operations Research and Management Science) National Meeting*, Atlanta, GA, November 3-6, 1996, p. 17.
32. Jamal, A. M. M. and Sarker, B. R., "Ordering policy for deteriorating items under permissible delay of payment," *WA-18. 3: INFORMS (Institute For Operations Research and Management Science) National Meeting*, Atlanta, GA, November 3-6, 1996, p. 77.
33. Nori, V. S. and Sarker, B. R., "Minimizing material flow distance in a multi-product flowline," *WC-23. 4: INFORMS (Institute For Operations Research and Management Science) National Meeting*, Atlanta, GA, November 3-6, 1996, p. 91.
34. Sarker, B. R., Mann, L., Triantaphyllou, E. and Wang, S., "Resources scheduling for revenue maximization in power restoration process," *WD-10. 4: INFORMS (Institute For Operations Research and Management Science) National Meeting*, Atlanta, GA, November 3-6, 1996, p. 95.
35. Balan, C. V., Nori, V. S. and Sarker, B. R., "Scheduling a multi-stage kanban system" *WD-23. 1: INFORMS (Institute For Operations Research and Management Science) National Meeting*, Atlanta, GA, November 3-6, 1996, p. 97.
36. Sarker, B. R., "Multi-Product Flowline Design," Blue Poster Session #320 (Friday): *1997 NSF Design and Manufacturing Grantees Conference*, Seattle, WA, January 7-10, 1997.
37. Sarker, B. R., Wang, S. and Waikar, A. M., "Locating machine cells with bottleneck machines," *SA-08. 1: INFORMS (Institute For Operations Research and Management Science) National Meeting*, Dallas, TX, October 26-29, 1997, p. 1.
38. Khan, M. and Sarker, B. R., "Grouping efficiency and efficacy in group technology," *SA-08. 2: INFORMS (Institute For Operations Research and Management Science) National Meeting*, Dallas, TX, October 26-29, 1997, p. 1.



39. Islam, K. M. S. and Sarker, B. R., "Measures of similarity/dissimilarity measures in cellular manufacturing," *SA-08. 3: INFORMS National Meeting*, Dallas, TX, October 26-29, 1997, p. 1.
40. Jamal, A. M. M., Sarker, B. R. and Wang, S., "Optimal ordering policies for items with inflation and permissible delay in payment," *TD-01. 4: INFORMS (Institute For Operations Research and Management Science) National Meeting*, Dallas, TX, October 26-29, 1997, p. 42.
41. Wang, S., Sarker, B. R. and Triantaphyllou, "A resource allocation model for power restoration process," *TE-02. 4: INFORMS (Institute For Operations Research and Management Science) National Meeting*, Dallas, TX, October 26-29, 1997, p. 46.
42. Parija, G. R. and Sarker, B. R., "A life-cycle cost model for a production and delivery system," *TE-30. 2: INFORMS (Institute For Operations Research and Management Science) National Meeting*, Dallas, TX, October 26-29, 1997, pp. 48-49.
43. Xu, Y., Sarker, B. R. and Li, Z., "Operations sequences-based cell formation for a multi-product flowline," *WB-07. 3: INFORMS (Institute For Operations Research and Management Science) National Meeting*, Dallas, TX, October 26-29, 1997, p. 52.
44. Li, Z., Sarker, B. R. and Xu, Y., "Cell formation with alternative routings for multiple products," *WB-07. 4: INFORMS (Institute For Operations Research and Management Science) National Meeting*, Dallas, TX, October 26-29, 1997, p. 52.
45. Sarker, B. R., "Designing Flowlines for a Multi-product Manufacturing System," Blue Poster Session #269 (Thursday): *1997 NSF Design and Manufacturing Grantees Conference*, Monterrey, WA, January 5-8, 1998.
46. Waly, S. M. and Sarker, B. R., "Noise Reduction Using nonlinear Optimization Modeling," *23rd International Conference on Computers & Industrial Engineering*, Chicago, IL, March 29-April 1, 1998. [Published in *Computers & Industrial Engineering*, Vol. 35, No. 1-2, October 1999, pp. 327-330].
47. Parija, G. R. and Sarker, B. R., "Modeling a production-delivery system in supply chain system," *MC32(4): INFORMS (Institute For Operations Research and Management Science) National Meeting*, Montreal, Canada, April 26-29, 1998.
48. Sarker, B. R., Parija, G. R. and Mondal, S., "Batch sizing for products with rework process and scrapping," *WB07(1): INFORMS (Institute For Operations Research and Management Science) National Meeting*, Montreal, Canada, April 26-29, 1998.
49. Sarker, B. R., Xu, Y. and Li, Z., "Job routing in a multi-product manufacturing system" Poster Presentation, *5<sup>th</sup> International Colloquium on Material Handling Research* (sponsored by CIC-MHE, NSF and Motorola), Chandler (Phoenix), AZ, June 20-24, 1998.
50. Parija, G. R., Sarker, B. R. and Mondal, S., "Batch sizing for a multi-stage production system with rework processes," *INFORMS (Institute For Operations Research and Management Science) National Meeting*, Seattle, WA, October 25-28, 1998.
51. Sarker, B. R. and Diponegoro, A., "Job routing and machine location in multi-product flowlines," *MC39. 1: INFORMS (Institute For Operations Research and Management Science) National Meeting*, Seattle, WA, October 25-28, 1998.

52. Sodhi, M. S., Sarker, B. R. and Hanjra, P., "Configuring flexible flow lines to minimize line length," Track CM-I: *25th International Conference on Computers & Industrial Engineering*, New Orleans, LA, March 29-31, 1999; Technical Program, p. 9.
53. Parija, G. R. and Sarker, B. R., "Manufacturing batch size for a supply chain model," *INFORMS (Institute For Operations Research and Management Science) National Meeting*, Cincinnati, OH, May 2-5, 1999.
54. Jamal, A. M. M, Sarker, B. R and Wang, S., "Optimal Payment Time for a Retailer with Allowed Shortage and Delay in Payment," Track #SA36. 3, *INFORMS (Institute For Operations Research and Management Science) National Meeting*, San Antonio, TX, November 5-8, 2000.
55. Wang, S., Sarker, B. R. and Jamal, A. M. M, "A supply chain system controlled by kanban mechanism," Track #TA15. 3 (Supply Chain Management I), *INFORMS (Institute For Operations Research and Management Science) National Meeting*, San Antonio, TX, November 5-8, 2000.
56. Wang, S., Sarker, B. R. and Jamal, A. M. M, "Supply chain models for perishable products under inflation and permissible delay in payment," Department of Industrial Engineering New Mexico State University, Santa Fe, NM, December 4, 2000.
57. Sarker, B. R., "Operations Analysis of Space Shuttle Systems," NASA-ASEE-Summer Intern Deliberation at *NASA Marshall Space Flight Center*, Huntsville, AL; July 28, 2001, POC: Gerald Karr (UAH, Huntsville, AL).
58. Sarker, B. R., "A Roadmap for Research and Exploration for Second Generation RLV Systems-I," Closed-Circuit Broadcast at *NASA Marshall Space Flight Center*, Huntsville, AL, and *NASA Kennedy Space Center*, Cape Canaveral, FL; August 16, 2001 (Host: Eric J. Shaw).
59. Sarker, B. R., "A Roadmap for Research and Exploration for Second Generation RLV Systems-II," Closed-Circuit Broadcast at *NASA Marshall Space Flight Center*, Huntsville, AL, and *NASA Kennedy Space Center*, Cape Canaveral, FL; August 17, 2001 (Host: Eric J. Shaw).
60. Jamal, A. M., Sarker, B. R. and Mondal, S., "Optimal manufacturing batch size with rework process in a single-stage production system," Track #WB45. 3 (Production and Scheduling VII), *INFORMS (Institute for Operations Research and Management Science) National Meeting*, Miami, FL, November 4-7, 2001.
61. Sarker, B. R. and Shaw, E. J., "Performance evaluation procedure for 2GRLV ground operations (A Roadmap for Research and Exploration for Second Generation RLV Systems)," Session 6 (Economics of Space Transportation Systems), RLV Symposium, *NASA Marshall Space Flight Center*, Huntsville, AL; April 11-12, 2002 (Session Chair: Allen E. Goldstein).
62. Sarker, B. R., "Assembly Line Systems: Design Configuration, Model Sequencing and Lean Manufacturing," Assembly Technology Exposition organized by Association of North American Industry, Chicago, IL; September 24-26, 2002.
63. Sarker, B. R. and Sodhi, M. S., "Configuring Flexible Manufacturing," *INFORMS (Institute For Operations Research and Management Science) National Meeting*, San Jose, CA, November 17-20, 2002.

64. Sarker, B. R. and Yu, J., "A Directional Decomposition Heuristic for Machine-Cell Location Problem," Track TA12(2) - Cellular Manufacturing: *INFORMS (Institute For Operations Research and Management Science) National Meeting*, Atlanta, GA, October 19-22, 2003.
65. Biswas, P. and Sarker, B. R., "Optimal Batch Quantity Models for Products with Rework and scrap," Track TD33(5) - Sequencing and Scheduling II: *INFORMS (Institute For Operations Research and Management Science) National Meeting*, Atlanta, GA, October 19-22, 2003.
66. Sarker, B. R. and Diponegoro, A., "Finite horizon planning for a production system with lumpy demand" Track-95: *INFORMS (Institute For Operations Research and Management Science) National Meeting*, Denver, CO, October 24-27, 2004.
67. Mungan, D., Sarker, B. R. and Yu, J., "An integrated inventory model for a supply chain system under continuous price decrease," *INFORMS (Institute for Operations Research and Management Science) Southwest Regional Conference*, College Station, TX, April 18-19, 2008.
68. Sharma, P., Sarker, B. R. and Romagnoli, J. A., "Integrated Framework for Enterprise Management—A Synergistic Approach towards Sustainable Biorefineries," *20<sup>th</sup> European Symposium on Computer Aided Process Engineering—ESCAPE20*, Ischia, Naples, Italy, June 6-9, 2010.
69. Yu, J., Sarker, B. R. and Tahmasebi, H. "A supply chain policy with multi-factored variable leadtime," (TD12. 1: Manufacturing and Service Operations/Supply Chain), *INFORMS (Institute For Operations Research and Management Science) National Meeting*, Austin, TX, November 7-10, 2010.
70. Rochanaluk, R., Egbelu, P. J. and Sarker, B. R., "A replenishment policy for three-stage integrated system: Automobile system," (TD12. 2: Manufacturing and Service Operations/Supply Chain), *INFORMS (Institute For Operations Research and Management Science) National Meeting*, Austin, TX, November 7-10, 2010.
71. Yi, H., Egbelu, P. J. and Sarker, B. R. "The role controllable lead time in consignment stock," (TD12. 3: Manufacturing and Service Operations/Supply Chain), *INFORMS (Institute For Operations Research and Management Science) National Meeting*, Austin, TX, November 7-10, 2010.
72. Sarker, B. R., Duan, Q., Wu, B. and Yu, J., "Consignment policy for retailers with generalized demand distributions," (TD12. 4: Manufacturing and Service Operations/Supply Chain), *INFORMS (Institute For Operations Research and Management Science) National Meeting*, Austin, TX, November 7-10, 2010.
73. Sarker, B. R., Yu, J., Duan, Q. and Wu, B. "Consignment Policy for Retailers," paper presented at the *International Conference on Decision Sciences in Managing Global Services (ISDSI-2010)*, held at the Management Development Institute, Gurgaon, Delhi-122007, India on December 28-31, 2010.
74. Biswas, P. and Sarker, B. R., "An integrated supply chain system with JIT delivery and transportation," *19<sup>th</sup> Institute of Industrial Engineers Annual Conference and EXPO*, Grand Sierra Resort Hotel, Reno, NV, May 21-25, 2011.

75. Sarker, B. R., Paudel, K. P. and Wu, B., "Renewable energy generation: Plant locations and biomass supply chain problems," (TA-16: Economics, Supply Chain and Logistics Analysis of Biofuels I), *INFORMS (Institute For Operations Research and Management Science) National Meeting*, Charlotte, NC, November 13-16, 2011.
76. Amaya, A. L. and Sarker, B. R., "Evaluation of Harvesting and Storage Practices for Energy Cane and Sweet Sorghum," *SUBI (Sustainable Bio-products Initiative) Annual Meeting*, Lod Cook Alumni Center, LSU, Baton Rouge, LA, May 28, 2014.
77. Faiz, T. I. and Sarker, B. R., "Installation Time Minimization for Offshore Wind Turbines," Paper #174, *2nd Asia Conference on Mechanical and Materials Engineering (ACMME)*, GIS National Taiwan University Convention Center, Taipei Taiwan, July 28-29, 2014.
78. Giri, B.C. and Sarker, B. R. "Improving supply chain performance under production disruption and third party logistics outsourcing," Category: Multi-criteria Decision Analysis and Information Technology (MCDA-IT), Paper #214, *2<sup>nd</sup> International Conference on Information systems Design and Intelligent Applications (INDIA-2015)* Organized by Faculty of Engineering, Technology and Management, University of Kalyani, Kalyani-741235, West Bengal, India; January 8-9, 2015.
79. Hossain, M. S. J. and Sarker, B. R., "Optimal Location of Rework Stations in a Serial Production Line: A Case in Garments Industry," Paper #5; *1<sup>st</sup> International Conference on Materials and Manufacturing Engineering (ICMME 2015)*, Islamic University of Technology, Tongi, Dhaka (Bangladesh), December 25-27, 2015.
80. Hossain, M.S.J., Ohaiba, M.M. and Sarker, B.R. "Vendor-buyer Cooperative Policy with Penalty for Late Delivery," *INFORMS Annual Meeting 2016*, Nashville, Tennessee. November 13-16, 2016.
81. Hossain, M.S.J. and Sarker, B.R. "Optimal Assignment of Inspection Stations in a Flowline," *2016 INFORMS Annual Meeting*, Nashville, TN (MS-2). November 13-16, 2016.
82. Hou, K.L., Lin, L.C. and Sarker, B.R. "Integrated inventory models with imperfect quality items under carbon emissions cap and lead time constraints," *2017 International Academic Conference on Business*, Sheraton-New York Times Square Hotel, 811-7th Avenue, 53rd St., New York, NY 10019, July 30-August 3, 2017.
83. Hossain, M.S.J. and Sarker, B.R. "Optimal number of inspection and rework servers for feed-back queues of in steel pipe manufacturing," (PhD-2), *INFORMS Annual Meeting 2017*, November 13-16, 2017, Houston, TX.
84. Hossain, M.S.J. and Sarker, B.R. "Optimal buffer capacity of steel strips in continuous steel pipe manufacturing," (PhD-3), *INFORMS Annual Meeting 2017*, Houston, TX. November 13-16, 2017.
85. Hossain, M.S.J. and Sarker, B.R., "Optimal Cooperative Stocking Policy under Demand and Lead-Time Uncertainties with Space Constraint and Penalty for Late Delivery," *INFORMS Annual Meeting 2018*, Phoenix Convention Center, Phoenix, AZ; Sunday, November 4, 2018 - Wednesday, November 7, 2018.

**(H) EDUCATIONAL SYMPOSIUMS, WORKSHOPS OR CONFERENCES ATTENDED:**

1. *United Nations Development Program (UNDP) International Symposium*, organized at Southern Methodist University, Dallas, TX, December 22-26, 1978.
2. *Gulf-South Oil Spillage Symposium*, Louisiana State University Plantation House, Essen Lane, Baton Rouge, LA 70808, June 14, 1994.
3. *Louisiana State Oil Spillage Program Workshop*, Louisiana State University Plantation House, Essen Lane, Baton Rouge, LA 70808, December 11, 1995.
4. *Manufacturing Research Section Meeting at the Industrial Engineering Research Conference* sponsored by the Institute of Industrial Engineers (IIE), Phoenix, AZ, May 23-24, 1999.
5. *Material Handling Research Colloquium* at Holiday Inn, Chandler (Phoenix), AZ, sponsored by the Material Handling Institute, June 20-24, 1998.
6. *National Science Foundation (NSF)/Georgia Tech Logistics Institute: "Delivering E-Commerce: Logistics and the On-line Revolution,"* NSF Grant for E-Commerce Forum, Georgia Institute of Technology, Atlanta, GA; February 10-11, 2000.
7. *National Science Foundation (NSF) Regional Grant Conference*, Louisiana State University, Baton Rouge, LA, March 19, 2000 (Host: Dr. Lynn Jelinski).
8. *National Science Foundation (NSF) Workshop on e-Product Design and Realization*, University of Pittsburgh, Pittsburgh, PA, October 18-20, 2000 (Host: Dr. Bart O. Nnaji).
9. *Systems Engineering: Planning, Design, and NASA Practices*, George C. Marshall Space Flight Center, Huntsville, AL 35812, May 15, 2001 (Primary host: Gerry Flannigan, Systems Engineering Department and UAH).
10. *Industrial Safety and Practices at NASA*, George C. Marshall Space Flight Center, Huntsville, AL 35812, May 16, 2001 (Primary host: NASA Safety Department).
11. *Systems Engineering: Planning, Design, and NASA Practices*, George C. Marshall Space Flight Center, Huntsville, AL 35812, May 15, 2001 (Primary host: Gerry Flannigan, NASA-MSFC, Systems Management Office, VS10).
12. *IT Security and Assurance Reinforcement and EXPO*, John C. Sparksman Complex Auditorium, Redstone Arsenal, AL; June 6-7, 2001 (Primary host: US Avionics Mission Command).
13. *2001 NASA Second Generation Reusable Launch Vehicle (2GRLV) Workshop*, Marshall Space Flight Center, Marriott Hotel at Space Park, Huntsville, AL; July 16-20, 2001.
14. *2009 Supply Chain Management Symposium: Best Practices for a Global Economy*, E. J. Ourso College of Business, Executive Education, Louisiana State University, Baton Rouge, LA 70803, October 29, 2009 [Host: Dean Eli Jones and Prof. Edward Watson].

15. *Sun Yat-Sen University, Guangzhou, Guangdong 510275, China*, “Supply chain Management and Industrial Logistics,” Conducted workshop at the Department of Management Sciences, School of Business: December 11- 26, 2009 [POC: Professor Zhixiang Chen].
16. Annual Meeting of the *American Society of Sugar Cane Technologists (ASSCT)*, Hilton Lafayette, 1521 W. Pinhook Road, Lafayette, LA; February 4-6, 2013.
17. *2014 International Conference of Applied Statistics (ICAS-2014)*, Senate Bhavan, University of Dhaka, organized by Institute of Statistical Research and Training (ISRT), University of Dhaka, Dhaka, Bangladesh; December 26-29, 2014.
18. *2016 Symposium of Technology Transfer Bio-Informatics and Medical Devices*, organized by Technology Translation Center for Medical Devices, Chung-yuan Christian University, Taoyuan, Taiwan; May 17, 2016.

**(I) PROFESSIONAL TRAINING SYMPOSIUMS OR WORKSHOPS ATTENDED:**

1. *Competing in the World of Sponsored Programs and Research*, Southern University, Baton Rouge, LA 70813, April 28-29, 1997.
2. *Faculty Forum: Research, Scholarship and Graduate Studies*, Alumni Center, Organized by Vice-Chancellor for Research, Louisiana State University, Baton Rouge, LA 70803, October 5, 1998.
3. *Material Handling Teachers’ Institute* at Lehigh University at Bethlehem, PA, sponsored by College Industry Council on Material Handling Education and the Material Handling Institute, Charlotte, NC, June 19-25, 1999.
4. *Faculty on the Front Lines: Reclaiming Civility in the Classroom* at LSU, sponsored by Division of Instruction Support and Development, 49 Himes Hall, LSU, February 8, 2000.
5. *Louisiana State University: “Teaching-Learning Connections: Preparing for the 21<sup>st</sup> Century,”* Himes Hall (in collaboration with Center for Faculty Development at LSU), March 1, 2000.
6. *Center for Faculty Development at Louisiana State University: “Forging Educational Partnerships: A key to Students Learning and Success,”* Center for Measurement and Evaluation, Himes Hall (Live Interactive Teleconferences, produced by the University of South Carolina), April 27, 2000.
7. *Faculty Forum: Creating a Culture of Collaboration*, Lod Cook Alumni Center, Organized by George Strain, Vice-Chancellor for Research, Louisiana State University, Baton Rouge, LA 70803, October 30, 2000 (Host: George Strain).
8. *Human Reliability Assessment Training Course* (FRANCIE: Framework Assessing, Notorious Contributing Influences for Error), NASA Johnson Space Center (B45/R729), hosted by Dr. Garland T. Bauch, June 4-6, 2002: RTOP/ PFMEA (Garland Bauch and David Gertman, INEEL), J-85 Project (Dennis Pete), Neutral Buoyancy Lab (NBL), and Lean 6 Project (Mark A. McDonald, Biomedical Systems Division).

9. *2011 Faculty Development Workshop* (ENG<sup>2</sup>: Engineering Engagement for Students success— Project Year V, LSU-STEP Program), “Effective Teaching: A Workshop,” Frank Walk Engineering & Design Center, Louisiana State University, Baton Rouge, LA, May 23-25, 2011 (Host: Dr. Warren Waggenpack and Dr. Roger Seals; Trainers: Dr. Richard Felder (NC State University and Dr. Rebecca Brent, Education Design, Inc. Cary, NC.).
10. *LSU Ethics Institute, Baton Rouge, LA* “*Teaching Ethics Workshop*,” conducted by Dr. Cecil L. Eubanks, Alumni Professor of Philosophy and Director of the Institute; Incorporating Ethics into curriculum and case studies (Workshop honorarium \$1,000).

**(J) INVITED LECTURES AND SEMINARS GIVEN, OR WORKSHOPS CONDUCTED:**

1. *University of Minnesota*, Duluth, MN: “Backtracking Problems in shop floor scheduling,” February 1989 [Host: Dr. Lester W. Garber, Department of Industrial Engineering].
2. *University of Missouri*, Rolla, MO: “Material handling in linear track,” March 1989 [Host: Dr. Yildirim Omurtag, Department of Industrial Management].
3. *University of Houston*, Houston, TX: “Backtracking along a material handling track,” October 1989 [Host: Dr. James P. Ignizio, Department of Industrial Engineering].
4. *University of Cincinnati*, Cincinnati, OH: “Measuring and minimizing one-dimensional material flows,” December 1990 [Host: Dr. Amit Mital, Department of Mechanical and Industrial Engineering].
5. *Auburn University*, Auburn, AL: “Machine location problems in one-dimensional layout,” January 24, 1990 [Host: Dr. Amitava Mitra, College of Business Administration].
6. *Tulane University*, New Orleans, LA: “Use of special structures of distance matrix to solve machine location problems,” January 26, 1990 [Host: Dr. N. Balakrishnan, A. B. Freeman School of Business].
7. *Louisiana State University*, Baton Rouge, LA: “The amoebic matrix and machine location problems,” January 28, 1990 [Host: Dr. L. Ken Keys, Department of Industrial and Manufacturing Systems Engineering].
8. *Case Western Reserved University*, Cleveland, OH: “Resolving computational problems in machine location problems,” February 21 1990 [Host: Dr. Henry C. Co, Department of Operations Research].
9. *University of Arkansas*, Fayetteville, AR: “Multi-product flowline design,” March 10, 1990 [Host: Dr. Eric M. Malstrom, Department of Industrial Engineering].
10. *Kansas State University*, Manhattan, KS: “Bi-directional flow minimization in manufacturing shop floor,” March 25, 1990 [Host: Dr. R. Michael Harnett, Department of Industrial and Manufacturing Systems Engineering].

11. *American Association of Bangladesh Engineers*, Washington, DC: “The Amoebic Matrix and One-dimensional Machine Location Problems,” Bethesda, MD, October 14, 1990 [Host: Dr. Golam Farid Aktar].
12. *Decision Science Institute (DSI) National Meeting*, Miami, FL: Panel Speaker for the Graduate Students Workshop, November 24-27, 1991 [Panel Chair: John F. Kottas].
13. *U. S. Army Corps of Engineers - Waterways Experiment Station*, Vicksburg, MS: “Applications of Operations Research in Military Logistics Planning,” August 18, 1993 [Host: Dr. David A. Horner, Mobility Systems Modeling Division].
14. *Louisiana State University (ISDS Department, College of Business Administration)*, Baton Rouge, LA, “Job routing and its complexity in shop floor scheduling” Spring 1995 [Host: Dr. Sumit Sarkar, Department of Information Systems and Decision Sciences].
15. *Bangladesh University of Engineering and Technology, Dhaka*: “Graduate Education in the U. S. A.” August 12, 1995 [Host: Dr. A. F. M. Anwar-ul Haque, Department of Industrial and Production Engineering].
16. *Assembly Technology EXPO 2002, Rosemont (Chicago), IL*, “Assembly Line Systems: Design Configuration and Model Sequencing.” September 25, 2002 [Host: Ms. Deborah Luongo], Conference Brochure, page 5.
17. *American Institute for Bangladesh Studies, USA*, and *Bangladesh University of Engineering and Technology, Dhaka*: Conducted a workshop on “Development of Research Capability in Supply Chain Management,” under the auspices of AIBS at BUET, January 6-13, 2004 [Host: Dr. A. F. M. Anwarul Haque and Dr. Nikhil R. Dhar, Department of Industrial and Production Engineering].
18. *USAC Engineer Research and Development Center Vicksburg, MS*, “Transportation Network: Computation of Capacity from Sparse Data,” presented at the Engineering Systems and Materials Division, WES, Vicksburg, MS: September 2, 2004 [Host: E. Alex Baylot, Mobility Systems Branch].
19. *USAC Engineer Research and Development Center, Vicksburg, MS*, “Influence of Urban Factors on Road Network Throughput Capacity,” presented at the Engineering Systems and Materials Division, WES, Vicksburg, MS: August 2, 2005 [Host: E. Alex Baylot, Mobility Systems Branch].
20. *Bangladesh University of Engineering and Technology (BUET), Dhaka*: Offered an accelerated graduate course on Supply Chain Management on January 2-12, 2006 [Host: Dr. Nikhil R. Dhar, Department of Industrial and Production Engineering, BUET].
21. *USAC Engineer Research and Development Center, Vicksburg, MS*, “Impact of Urban Factors on Transportation Network Capacity,” presented at the Engineering Systems and Materials Division, WES, Vicksburg, MS: June 9, 2006 [Host: E. Alex Baylot, Mobility Systems Branch].
22. *Air Force Institute of Technology (AFIT), Wright-Patterson AFB, OH*, “Optimal Production Plans and Shipment Schedules in a Multi-Supplier, Multi-Buyer Supply-Chain System,” presented at the Department of Operational Sciences: March 7, 2008 [Hosts: Kenneth Bauer, and Jeff Cochran, Department Head].



23. *Sun Yat-Sen University, Guangzhou, Guangdong 510275, China*, “Research Methodology I: How to do research—A brainstorm to get rid of fear,” A seminar presented at the Department of Management Sciences, School of Business: Tuesday, December 15, 2009 [POC: Professor Zhixiang Chen].
24. *Sun Yat-Sen University, Guangzhou, Guangdong 510275, China*, “Research Methodology II: General procedure to select a topic for research and identifying the problem(s)—Summary and relationship diagram,” A seminar presented at the Department of Management Sciences, School of Business: Wednesday, December 16, 2009 [POC: Professor Zhixiang Chen].
25. *Sun Yat-Sen University, Guangzhou, Guangdong 510275, China*, “Lean Production Concept: Its perspectives and objectives,” A seminar presented at the Department of Management Sciences, School of Business: Thursday, December 17, 2009 [POC: Professor Zhixiang Chen].
26. *Sun Yat-Sen University, Guangzhou, Guangdong 510275, China*, “JIT Systems: JIT production and delivery, its modeling, original concepts and evolution of the models, subsequent research offshoots and spin-offs,” A seminar presented at the Department of Management Sciences, School of Business: Tuesday, December 22, 2009 [POC: Professor Zhixiang Chen].
27. *Sun Yat-Sen University, Guangzhou, Guangdong 510275, China*, “Modeling Phase: Modeling multi-server and multi-buyer JIT delivery system with minimum idle time,” A seminar presented at the Department of Management Sciences, School of Business: Wednesday, December 23, 2009 [POC: Professor Zhixiang Chen].
28. *Beihang University (BUAA), Beijing, China*, “Global Supply Chain: Research Problems and Issues,” A seminar presented at the School of Automation & Processing Engineering, Friday, July 15, 2011 [POC: Professor Lin Zhang, Vice-Dean and Feo Tao].
29. *National Science Foundation (Washington, DC)*, “Perspectives in Research Trend on Manufacturing Enterprise Systems and Service Enterprise Systems,” A seminar presented at the Division of Civil, Mechanical, Manufacturing and Innovation (CMMI), Tuesday, May 15, 2012 [POC: Dr. George Hazelrigg, Deputy Division Director].
30. *Khalifa University of Science, Technology and Research (KUSTAR), Abu Dhabi, UAE*, “The Role Model of a Department Chair: Some Thoughts and Perspectives,” A seminar given to the Department Industrial & Systems Engineering, Khalifa University of Science, Technology and Research, Abu Dhabi, UAE, May 28, 2012 [POC: Professor Andreas Polycarpou, Department Chair, ME Department].
31. *Beihang University, Beijing (China)*: “How to do research: A few art and techniques for beginning researchers,” A seminar given at the Department Automation Science and Electrical Engineering, July 23, 2012 (Monday); New Main Building E-706 [POC: Professor Lin Zhang (Vice-Dean), and Professor Fei Tao, Cloud Manufacturing Group].

32. *Beihang University, Beijing (China)*: “Current Research Trend in Supply Chain Systems: Problems and Research Issues,” A seminar given at the Department Automation Science and Electrical Engineering, July 30, 2012 (Monday); New Main Building E-706 [POC: Professor Lin Zhang (Vice-Dean), and Professor Fei Tao, Cloud Manufacturing Group].
33. *Beihang University, Beijing (China)*: “How to do research: A few art and techniques for beginning researchers,” A seminar given at the Department Automation Science and Electrical Engineering, August 2, 2012 (Thursday); New Main Building E-706 [POC: Professor Lin Zhang (Vice-Dean), and Professor Fei Tao, Cloud Manufacturing Group].
34. *Chittagong University of Engineering and Technology (CUET)*: “Preparations of doing Postgraduate Study and State of Industrial Engineering in the USA,” December 28, 2015 (Monday); a seminar given at CUET, Mechanical Engineering Conference Room [POC: Professor Md. Mahbubul Alam].
35. *Ahsanullah University of Science & Technology (AUST)*: “Graduate Studies in the USA: Academic Preparation, Seeking Admission and Funding,” A seminar given at the AUST Auditorium, December 31, 2015 (Thursday) [POC: Professor Shyamal K. Biswas, Dept. of Mechanical and Production Engineering].
36. *Louisiana State University (LSU College of Engineering)*, “How to do research and write technical papers” Spring 2016, for 50 Graduate Students [Host: Dr. Arash Dahi Taleghani, Department of Petroleum Engineering].
37. *Chung-Yuan Christian University (CYCU), Taoyuan (Taiwan)*: “Optimization in Product Design, Manufacturing and Manufacturing Systems: Series-1 (Modeling and Industrial Application),” An invited seminar given at the Department of Industrial & Systems Engineering, and College of Humanities and Education, funded by the Taiwan Ministry of Science & Technology, May 16, 2016 (Monday); [POC: Professor Sher-Din Lin (Dean), and Professor Kuo-Lung Hou of OCU].
38. *Chaoyang University of Technology (CYUT), Taichung (Taiwan)*: “Optimization in Product Design, Manufacturing and Manufacturing Systems: Series-2 (Research Trend and Some Thoughts),” An invited seminar given at the Department of Industrial & Systems Engineering, funded by the Taiwan Ministry of Science & Technology, May 18, 2016 (Wednesday); [POC: Professor Horng-Chyi Horng (Chairman), and Professor Ching-Fang Liaw (Dean) of CYUT].
39. *National Chin-Yi University of Technology (NCUT), Taichung (Taiwan)*: “Management Practices in Green Supply Chain in the United States: Series-3,” An invited seminar given at the College of Business Administration, funded by the Taiwan Ministry of Science & Technology, May 19, 2016 (Thursday); [POC: Professor Ching Te Wang (Dean), and Professor Li-Chiao Lin].
40. *Chinese Overseas University (OCU), Taichung (Taiwan)*: “SCI Journal Submission Skills and Experience Sharing, Series-4,” An invited seminar given at the College of Business Administration, funded by the Taiwan Ministry of Science & Technology, May 20, 2016 (Friday); [POC: Professor Kuan-Min Wang (Dean), and Professor Kuo-Lung Hou of OCU].

41. *Wuhan University of Technology-Mafang Shan Campus, Wuhan (China)*: “Optimization for Engineering Problems,” A 5-day lecture series at the School of Mechanical and Electronic Engineering, July 13-17, 2016; [POC: Professor Cunrong Li].
42. *Wuhan University of Technology-Yujiatou Campus, Wuchan District, Wuhan (China)*: “Global Supply Chain Issues and Logistics Problems,” An invited seminar given at the School of Logistics Engineering, July 18, 2016 (Monday); [POC: Professors Huaye Huang and Meng Yu].
43. *Sun Yat-Sen University, Guangzhou, Guangdong 510275, China*, “How to do research: A few art and techniques for beginning researcher,” A seminar presented at the Department of Management Sciences, School of Business, Monday, August 8, 2016 [POC: Professor Zhixiang Chen].
44. *Sun Yat-Sen University, Guangzhou, Guangdong 510275, China*, “Research Methodology: Writing Technical Articles,” A short workshop exercise at the Department of Management Sciences, School of Business, Tuesday, August 9, 2016 [POC: Professor Zhixiang Chen].
45. *Sun Yat-Sen University, Guangzhou, Guangdong 510275, China*, “Internet of Things (IOT): Dynamics of research and direction of manufacturing and operations Management,” A seminar presented at the Department of Management Sciences, School of Business, Wednesday, August 10, 2016 [POC: Professor Zhixiang Chen].
46. *Sun Yat-Sen University, Guangzhou, Guangdong 510275, China*, “Optimization in product design and operations management,” A seminar presented at the Department of Management Sciences, School of Business, Friday, August 12, 2016 [POC: Professor Zhixiang Chen].

**(K) TECHNICAL REPORTS COMPLETED:**

1. Sarker, B. R., *A Report on Industrial Training*, Godrej & Boyce Manufacturing Company (Filing Cabinet Manufacturing Plant), Bombay (India), August 27, 1975 [100 pages].
2. Sarker, B. R. and Horner, D. A., *Conceptualization of Army Mobility Problems: Engineer Resources Planning for Roads and Bridges*, Report #DAAL03-91-C-0034/ TCN: 93-381, US Army Corps of Engineers - Waterways Experiment Station (Mobility Systems Modeling Division), Vicksburg, MS, September 1993 [116 pages].
3. Hsieh, B. B., McAdory, R. T. and Sarker, B. R., *Time Series Analysis and System Simulation for An Estuarial System*, Report #DAAL03-91-C-0034/ TCN: 96-121. U. S. Army Corps of Engineers - Waterways Experiment Station (Estuaries Division), Vicksburg, MS, September 1996 [54 pages].
4. Mann, L., Sarker, B. R. and Triantaphyllou, E., *An Optimal Management of Repair Crews and Vehicles In Electric Power Utilities Companies*, Grant #LEQSF 1994-7:D-A-04, Louisiana State Board of Regents, Baton Rouge, LA, June 30, 1997 [37 pages].

5. Sarker, B. R. and Diponegoro, A., *Virtual Placement Methodology for PCB Assembly: A Report*, submitted to the Gulf Coast Region Maritime Technology Center (GCMRTC-UNO), Grant #ONR: N00014-94-2-0011, UNO: 327-01-5129, LSU: 127-30-4104, December 31, 1998 [59 pages].
6. Sarker, B. R., *Operations Analysis of Space Shuttle Systems: A Report*, submitted to the NASA-MSFC, Contract #MSFC: NAG8-1786, July 28, 2001 [7 pages]. POC: Dr. Gerald Karr (UAH, Huntsville, AL).
7. Sarker, B. R., *A Roadmap for Research and Exploration for Second Generation RLV Systems: A Report*, submitted to the NASA-MSFC, Contract #MSFC: NAG8-1845, LSU#: 127-30-5105 (Proposal #14533), September 19, 2001 [41 pages]. POC: Eric J. Shaw (NASA).
8. Sarker, B. R., *Performance Evaluation Procedure for 2GRLV Ground Operations: A Preliminary Report*, submitted to the NASA-MSFC, Contract #MSFC: NAG8-xxxx, LSU #127-30-5106 (Proposal #14807), April 4, 2002 [10 pages, Report submitted in advance]. POC: Eric J. Shaw (NASA).
9. Sarker, B. R. and Bauch, G. T., *An Application of Connection Matrix Technique to J-85 Engine: An Extended Study on process FMEA*, Report on Contract #NAG9-1422, August 13, 2002 [15 pages]. POC: Dr. Richard Bannerot, University of Houston (NASA-ASEE, Coordinator, Summer 2002).
10. Sarker, B. R. and Bauch, G. T., *Process Failure Modes and Effects Analysis using Connection Matrix Technique as applied to the J-85 Engine*, Report #JSC: 29867 (NAG9-1422), September 2002 [37 pages]. POC: Dr. Garland T. Bauch (NASA-JSC, Houston TX).
11. Sarker, B. R. and Baylot, E. Alex, *Transportation Network: Computation of Capacity from Sparse Data—Final Report*, Contract #DAAD19—02-D-0001, TCN: 04-043, Delivery Order: 0394, September 2, 2004 [100 pages]. POC: E. Alex Baylot (ERDC-WES, Vicksburg, MS).
12. Sarker, B. R., Baylot, E. A., Biswas, P. and Rahman, M. A. Phase I: *Urban Factors on Transportation Network Capacity*, Contract #DAAD19—02-D-0001, TCN: 04-022, Delivery Order: 0541, September 15, 2005 [137 pages]. POC: E. Alex Baylot (ERDC-WES, Vicksburg, MS).
13. Sarker, B. R., Baylot, E. Alex, and Biswas, P. Phase II: *Urban Factors on Transportation Network Capacity: Convoy Movement Simulation Under the Influence of Different urban factors*, Contract #DAAD19—02-D-0001, TCN: 05-022, Delivery Order: 0541, October 13, 2006 [532 pages]. POC: E. Alex Baylot (ERDC-WES, Vicksburg, MS).

**(L) MAJOR INDUSTRIAL VISITS FOR ENHANCEMENT OF TEACHING AND TRAINING CAPABILITY:**

1. *GM Manufacturing Plant*, Saginaw, MI: Summer, 1985 [Steering column production: fabrication, assembly systems, and product testing].
2. *Boeing Company*, Everett, WA: January 4, 1997 [Boeing 777: Fixed-point assembly, material handling, simulation, aerodynamic balancing, and installation].

3. *Lucent Technologies*, Shreveport, LA: 1991-1998 (several times) [Telephone production: surface mounting operations, modular cells, flowlines, and plastics operations].
4. *Georgia-Pacific Corporation*—Port Hudson Operations, Zachary, LA: 1991-1998 (several times), [Paper-production: pulps, paper production, sizing, material handling, customized production, and warehousing and distribution].
5. *Allied-Signal Aerospace Corporation*, Long Beach, CA: January 4, 1999 [Wing-sensor production: modular cells, job routing, assembly system, and testing].
6. *Walgreen's Distribution Center* at Industrial Park, Bethlehem, PA: June 22, 1999 [Warehousing and Distribution: Automated storing, retrieval, sorting, packaging, and distribution of millions of consumer items].
7. *Mack Trucks*, Macungie, PA: Truck Manufacturing: fabrication, sheet metal, material handling, assembly, automation, testing and delivery, June 23, 1999.
8. *SI Handling Systems*, Easton, PA: Material Handling Equipment: fabrication, automated storage/retrieval, assembly, automation, and testing, June 24, 1999
9. *University of British Columbia*, Vancouver, BC, Canada: [Foundry and Fabrication Laboratory, and Computational Laboratory], January 5, 2000.
10. *Canadian Research Council Testing Laboratory* at Industrial Park, British Columbia, BC, Canada: [National Testing Facility], June 8, 2000
11. *NASA Marshall Space Flight Center*, Huntsville, AL: Chandra Lab, and V-series Rocket Testing, Space Museum. June 1-July 31, 2001.
12. *Kennedy Space Center (Orbiter Processing Facilities)*, Cape Canaveral, FL, June 17-22, 2001 (Primary host: Grant Cates, Manager of Process Integration).
13. *NASA Johnson Space Center*: Human Error Analysis Methodology, J-85 Engine Project, Crew Health Care System (Bio-medical Systems): Pre-ship Task Analysis, Neutral Buoyancy Lab (NBL) Process and Comparative study for J-85 Engine Refurbishment processes, Robonautics Laboratory, Nanotubes Laboratory, and Advanced Space Propulsion Laboratory (ASPL).
14. *STUPP Corporation*, Baton Rouge, LA: Steel Pipe Manufacturing Plant [Continuous Flow Production, Throughput and Yield enhancement], May 10-13, 2017.

## 5. RESEARCH GRANTS AND CONTRACTS:

### (A) FUNDED PROJECTS/CONTRACTS:

#### 1. *Louisiana State University (Council of Research)*:

**Sarker, B. R.**, "Development of Similarity Coefficient in Cellular Manufacturing Systems," DURATION: November 29, 1990 (Summer 1991), AMOUNT: \$4,000.

**2. Pritsker Corporation, West Lafayette, IN:**

**Sarker, B. R.** and Waikar, A. M., “*SLAMSystem* for Education and Research (for laboratory development),” SPONSOR: Awarded: December 1990, AMOUNT: \$18,000.

**3. Louisiana State University, Baton Rouge, LA**

**Sarker, B. R.**, “Designing a Multi-stage, Just-in-time Production-Delivery System,” (*Halliburton Research Grant #127-99-6003*); DURATION: Summer 1991, AMOUNT: \$2,000.

**4. US Army Corps of Engineers - Waterways Experiment Station, Vicksburg, MS:**

(Geotechnical Laboratory—Mobility Systems Modeling Branch),

**Sarker, B. R.**, “Conceptualization of Army Mobility Problems: Engineer Resources Planning for Roads and Bridges,” (Summer Faculty Research and Engineering Program, Contract #DAAL03-91-C-0034/ TCN: 93-381), DURATION: Summer 1993, AMOUNT: \$15,500.

**5. Louisiana Education Quality Support Funds (LEQSF):**

Mann, L., **Sarker, B. R.** and Triantaphyllou, E., “An optimal management of repair crews and vehicles in electric power utilities companies,” (*LEQSF 1994-7: D-A-04*), *LSU: 127-30-4117*; DURATION: 3 years (June 1994 - May 1997); AMOUNT: (LEQSF: \$121,000, LSU: \$103,282), Total: \$224,282.

**6. IBM Corporation, Kingston, NY:**

**Sarker, B. R.**, “Optimization Subroutine Library (OSL) for Enhancement of Computational Facilities at LSU,” February 1995: Donation for joint research, AMOUNT: Estimated value is \$9,600.

**7. U. S. Army Corps of Engineers - Waterways Experiment Station, Vicksburg, MS:**

(*Hydraulics Laboratory—Estuaries Division*):

**Sarker, B. R.**, “Time Series Analysis and System Simulation for An Estuarial System,” (Summer Faculty Contract #DAAL03-91-C-0034/ TCN: 96-121), DURATION: Summer 1996, AMOUNT: \$15,500.

**8. Office of Naval Research (ONR)/University of New Orleans (UNO):**

**Sarker, B. R.**, “Virtual Placement Methodology for PCB Assembly,” Sub-Contract from the *Gulf Coast Region Maritime Technology Center (GCMRTC-UNO)*, Grant #ONR: N00014-94-2-0011, UNO: 327-01-5129, LSU:127-30-4104, DURATION: 6 months (July 1, 1998 - December 31, 1998); AMOUNT: \$10,000.

**9. National Science Foundation (NSF):**

**Sarker, B. R.**, “Multi-product Flowline Design for a Flexible Manufacturing System,” Grant #DMII: 96-22306, LSU: 127-30-5102; DURATION: 3 years (September 1, 1996 - August 31, 2000); AMOUNT: (NSF: \$195,527, LSU: \$99,291), Total: \$294,818.

**10. University of Rhode Island Research Foundation, Kingston, RI:**

**Sarker, B. R.**, “Configuring Flexible Flowlines,” Collaborative Research funded by the Department of Industrial and Manufacturing Systems Engineering (DURATION: May 20 – June 3, 2000); AMOUNT: \$7,100.

**11. NASA-American Society of Engineering Education (NASA-ASEE):**

**Sarker, B. R.,** “Operations Analysis of Space Shuttle System,” (Summer Faculty Fellowship Program), NASA-MSFC Contract #NAG8-1786 (*Badge #275372*), DURATION: 2 months (May 14, 2001 – July 20, 2001), Total: \$13,225. (POC: Joseph W. Hamaker and Eric J. Shaw).

**12. NASA - George C. Marshall Space Flight Center:**

**Sarker, B. R.,** “Second Generation Space Launch Initiatives: An Exploration and Roadmap to Solving Problems,” LSU #127-30-5105 (Proposal #14533), NASA Grant# NAG8-1845 [MSFC Control#: 2001-54-53, *Badge #448469*], DURATION: 1 month (July 29, 2001 – August 29, 2001), Total: \$10,000. (POC: Eric J. Shaw).

**13. NASA-American Society of Engineering Education (NASA-ASEE):**

**Sarker, B. R.,** “Identification and Evaluation of Human Reliability Factors in Engineering Processes” (Summer Faculty Fellowship Program), NASA-JSC Contract #NAG9-1422, DURATION: 2.5 months (June 3, 2002 – August 16, 2002), Total: \$13,950. [POC: Dr. Garland T. Bauch (NASA) and Dr. Richard Bannerot (UH)].

**14. BOR Economic Development Assistance (EDA) at LSU:**

**Sarker, B. R.** and Diponegoro, A., “Operations Planning in a Supply Chain Systems,” SUBMITTED: February 28, 2003; DURATION: 1 year (August 2002 – July 2003); AMOUNT: Total: \$25,000.

**15. US Army Research Office (Battelle Scientific Service Programs):**

**Sarker, B. R.,** “Computation of Transportation Network Capacity from Sparse Data Sources,” (Battelle Summer Faculty Research and Engineering Program, Contract #DAAD19-02-D-0001: TCN: 04-043, *Delivery Order: 0394*), DURATION: May 24, 2004 – August 31, 2004 (3 months), POC: E Alex Baylot (USAC-ERDC), AMOUNT: ARO: \$20,207 and ERDC: \$2,310, Total: \$22,517.

**16. US Army Research Office (Battelle Scientific Service Programs):**

**Sarker, B. R.,** “Phase-I: Urban Factors on Transportation Network Capacity,” LSU #127-30-6102 (Proposal #19170), Battelle Prime Contract #DAAD19-02-D-0001: TCN: 04-022, *Delivery Order: 0541*), DURATION: January 12, 2005 – December 31, 2005 (12 months), POC: E Alex Baylot, USAC-ERDC), AMOUNT: \$57,490.

**17. US Army Research Office (Battelle Scientific Service Programs):**

**Sarker, B. R.,** “Phase II: Urban Factors on Transportation Network Capacity,” LSU #127-30-6102 (Proposal #19170-2), Battelle Prime Contract #DAAD19-02-D-0001: TCN: 05-022, *Delivery Order: 0541*) DURATION: January 1, 2006 – January 11, 2007 (12 months), POC: E Alex Baylot, USAC-ERDC), AMOUNT: \$25,000.

**18. US Army Corps of Engineers Research and Development Center, Vicksburg, MS:**

**Sarker, B. R.,** “Validation of Simulation Model to Predict the Throughput Rate for Convoy Movement Through Urban Areas,” BAA (GSL-3) Proposal BAA #06-4000 (Contract #W912HZ-06-P-0243, *Requirement/Purchase Request #W81EWF-6132-1213, Code: W912HZ-4CM59*), DURATION: June 07, 2006 – August 15, 2006 (3 months), POC: E Alex Baylot (USAC-ERDC), AMOUNT: \$20,800.

**19. LSU Council of Research:**

**Sarker, B. R.,** “Efficient Mass-Exit Plans during Emergency Evacuation,” (2006-07 LSU FRG #127-30-9102), DURATION: July 1, 2006 – June 30, 2007 (12 months), POC: Todd A. Pourciau (Program Director, LSU), AMOUNT: \$10,000.

**20. Louisiana Economic Development Assistantship (EDA):**

**Sarker, B. R.,** “Bio-energy Development: Plant Location for Converting Plant Residues and Livestock Wastes to Liquid Hydrocarbons, SUBMITTED: October 31, 2012; DURATION: July 1, 2011– June 30, 2015 (48 months), AMOUNT: \$100,000.

**21. NSF-EPSCoR (IGERT Planning Proposal):**

Liao, T. W., Egbelu, P. J., **Sarker, B. R.** and Chen, Y. S., “Developing an NSF IGERT Proposal on “Research and Education in Global Supply Chain Management,” Travel grant for writing proposal in 2012, *LSU Proposal # 37593-1, LSU A/C# 127-30-4115 [Grant #: NSF (2011) Planning-31]*; DURATION: 12 months (July 1, 2011 – June 30, 2012), BUDGET: NSF: \$10,000.

**22. NSF-EPSCoR (PFund 2012):**

**Sarker, B. R.,** “Procurement, manufacture and Supply of Components and Materials for Off-Shore Wind Energy Facilities,” *LSU Proposal # 38661-1 (A/C: 127-41-4147), PFund Proposal #PFUND-1112-1009 [LEQSF-EPS (2012)-PFUND-279]*, DURATION: 18 months (March 1, 2012 – December 31, 2013), BUDGET: \$10,000, LSU Matching: \$0; Total (NSF): \$10,000.

**23. Louisiana Economic Development Assistantship (EDA):**

**Sarker, B. R.,** “Throughput and Yield Enhancement for Steel Pipe Manufacturing for Oil and Gas Conveyance: An Economic Development Initiative,” SUBMITTED: November 15, 2013; AWARDED: January 9, 2014; DURATION: 4 years (August 1, 2014– July 31, 2018), AMOUNT: \$100,000 [Md Shahriar J. Hossain].

**24. Louisiana Board of Regents –BOR (Equipment Grant):**

Guo, Shengmin; Li, Guoqiang; **Sarker, B. R.** and Yao, Shaomian “A selective laser melting system to enhance advanced manufacturing research and education-Phase I,” *LSU Proposal # 42273-1, LEQSF(2015-16)-ENH-TR-08 (GRC-127-40-41940 000 000)*, SUBMITTED: October 23, 2014, DURATION: 12 months (June 1, 2015 – October 30, 2016), BUDGET: \$188,189, LSU Matching: \$14,686; Total: \$202,875.

**25. Louisiana Board of Regents –BOR (Equipment Grant):**

Guo, Shengmin; Li, Guoqiang; Yao, Shaomian and **Sarker, B. R.** “A selective laser melting system to enhance advanced manufacturing research and education-Phase II,” *LSU Proposal #42273-1, LEQSF(2015-16)-ENH-TR-08, LSU A/C: 127-40-4194; Award Budget: AWDC-001546*; SUBMITTED: September 30, 2016, DURATION: 12 months (June 1, 2015 – June 30, 2017), Re-budget (01/13/2017): \$186,800, LSU, LSU Cost Share: \$109,854; Total: \$296,654.

**26. Louisiana Economic Development Assistantship (EDA):**

**Sarker, B. R.,** “Offshore Wind Farms Logistics and Maintenance Operations for Renewable Energy,” SUBMITTED: November 14, 2018, AWARDED: January 7, 2019; DURATION: 4 years (July 1, 2019– June 30, 2023), AMOUNT: \$100,000 (Funded).



**(B) TRAVEL GRANTS FOR SYMPOSIUM/CONFERENCES:**

**1. Material Handling Institute (MHI):**

**Sarker, B. R.,** *Travel Grant* to present a paper entitled “Job routing in a multi-product manufacturing system” at the 5<sup>th</sup> *International Colloquium on Material Handling Research*,” sponsored by MHI (CIC-MHE), NSF and Motorola, held at Chandler (Phoenix), AZ on June 20-23, 1998; AMOUNT: (CIC-MHE: estimated \$950).

**2. Georgia Tech Logistics Institute/National Science Foundation (NSF):**

**Sarker, B. R.,** “*Travel grant* to attend Executive Forum on Delivering E-Commerce: Logistics and the On-line Revolution,” NSF Grant for E-Commerce Forum at Georgia Tech., Atlanta, GA (February 10-11, 2000); AMOUNT: \$500.

**3. National Science Foundation (NSF)/University of Pittsburgh:**

**Sarker, B. R.,** *Travel Grant* for “e-Product Design and Realization: Workshop,” University of Pittsburgh, (October 19-20, 2000), ESTIMATED AMOUNT: \$500.

**4. NASA - George C. Marshall Space Flight Center, Huntsville, AL:**

**Sarker, B. R.,** 2001 NASA Second Generation Reusable Launch Vehicle (2GRLV) Workshop, Marshall Space Flight Center, Marriott Hotel at Space Park, Huntsville, AL; July 16-20, 2001. ESTIMATED AMOUNT: \$400.

**5. Association of Assembly Industry (USA), Chicago, IL:**

**Sarker, B. R.,** *Travel Grant* for “Mixed-Model Assembly: Operations and Design Perspectives,” Assembly Technology Exposition, Chicago, (September 24-26, 2002), AMOUNT: \$828.

**6. American Institute of Bangladesh Studies (AIBS), US AID, Washington DC:**

**Sarker, B. R.,** Workshop grant on “Development of Research Capability in Supply Chain Management,” at the Department of Industrial and Production Engineering, BUET on January 6-13, 2004 [Host: Dr. A. F. M. Anwarul Haque and Dr. Nikhil R. Dhar], AMOUNT: \$6,589. 57.

**7. U. S. Army Corps of Engineers - Waterways Experiment Station, Vicksburg, MS:**

**Sarker, B. R.,** Travel grant for presenting the paper “Estimation of throughput capacity for convoy movement,” by Sarker, B. R. and Baylot, E. A., *Proceedings of 13<sup>th</sup> International Conference on Hong Kong Society for Transportation Studies (HKSTS)*, InterContinental Grand Stanford Hotel, Hong Kong, December 13-15, 2008. POC: E Alex Baylot (USAC-ERDC), AMOUNT: \$2,500.

**8. Ministry of Science & Technology, Taiwan:**

**Sarker, B. R.,** Travel grant for delivering guest lectures to four universities (Chung-Yuan Christian U, Chaoyang UT, National Chin-Yi U and Overseas Chinese U, May 14-27, 2016 (POC: Professor Li-Chao Lin, NCYU-ISE Department, AMOUNT: \$1,628).

**9. Wuhan University of Technology, Mafang Shan, Wuhan, Hubei Province, China:**

**Sarker, B. R.,** Travel grant for research collaboration and guest lectures, July 10-31, 2016 (POC: Professor Cunrong Li, I&SE Department, AMOUNT: \$1,500).

**10. Sun Yat-Sen University, Guangzhou, Guangdong Province, China:**

**Sarker, B. R.,** Travel grant for research collaboration and guest lectures, August 1-15, 2016 (POC: Professor Zhixiang Chen, Management Sciences Department, AMOUNT: \$984).

## **6. PROFESSIONAL SERVICES**

### **(A) SERVICES AT NATIONAL/INTERNATIONAL PROFESSIONAL ORGANIZATIONS:**

1. *President*, IIE Senior Chapter, Baton Rouge, LA, 1992-1994;
2. *Judge*, 1991 DSI Best Doctoral Dissertation Competition (Chairman: John F. Kottas)
3. *Session Organizer*, INFORMS Meeting at New Orleans, LA, Fall 1995.
4. *Member*, Organization Committee, 25<sup>th</sup> International Conference on Computers & Industrial Engineering, Hotel Monteleone, New Orleans, LA, March 29-31, 1999.
5. *Member*, American Biography, Inc. (ABI) Research Board of Advisors, 1999-2004.
6. *Member*, Organization Committee, International Conference on Manufacturing (ICM2000), February 24-26, 2000, BUET, Dhaka, Bangladesh.
7. *Member*, Technical Program Committee, Gulf Coast Conference on Lean Manufacturing at the University of Southern Mississippi, Hattiesburg, MS, February 2002.
8. *Member*, Organizing Committee, Second International Industrial Engineering Conference, Department of Industrial Engineering, King Saud University on December 19-21 2004 (Host: Professor Moncer Hariga).
9. *Speaker and Program Coordinator*, AIBS-BUET Workshop on Supply Chain Systems, Bangladesh University of Engineering and Technology, Dhaka, January 6-13, 2004.
10. *Member*, Organizing Committee, INFORMS Southwest Regional Conference (Connect Locally Through Theory and Practice), Venue: Texas A&M University, College Station, TX 77843; April 18-19, 2008.
11. *Member*, Advisory Committee of International Conference on Industrial Engineering and Operations Management (IEOM 2010), Dhaka, Bangladesh, January 9-10, 2010 (organization activities from Fall, 2009).
12. *Member*, Advisory Committee of International Conference on Global Supply Chain Management (ICGSCM 2011), Kharagpur, India, December 2-4, 2011 (organization activities from April 9, 2010).
13. *Member*, Advisory Committee of International Conference on Smart Manufacturing and Industrial Systems (ICSMIS 2011), Hyatt Regency, Port of Spain, Trinidad and Tobago, West Indies, March 10-11, 2011 (organization activities from April 9, 2010).
14. *Member*, Advisory Committee of International Conference on Industrial Engineering and Operations Management (IEOM 2010), Istanbul Technical University, Management Faculty, Macka, Istanbul, Turkey, July 3-6, 2012 (organization activities from Fall, 2011).
15. *Member*, International Program Committee of “1st International Conference on Operations Research and Enterprise Systems” – (ICORES 2012), Hotel Tivoli Victoria, Vilamoura

- Algarve, Portugal, February 4-6, 2012 (Invited June 22, 2011, Program Chair: Carlos Luz, Polytechnic Institute of Setúbal, Portugal).
16. *Member*, International Advisory Board “International Conference on Agile Manufacturing ICAM-12,” Swatantrata Bhavan, Institute of Technology, Banaras Hindu University, Varanasi-221005, India; December 16-19, 2012 (Invited May 05, 2012, Program Chair: Professor Sushil K. Sharma).
  17. *Member*, Organizing Committee for International Conference on Recent Trends in Mathematics and its Applications,” organized by Department of Applied Mathematics with Oceanology and Computer Programming, Vidyasagar University, India, January 29-30, 2013 (Invited August 7, 2012, Program Chair: Professor Shyamal K. Mondal).
  18. *Member*, International Committee Asian Conference of Management Science & Applications (ACMSA2013),” organized by University of Cambridge, U. K., at Kunming University of Science and Technology, Kunming (Yunnan Province), China; December 21-23, 2013 (Invited July 15, 2013, Program Chair: Professor Yong Yi, Yamagata University, Japan: [yin@human.kj.yamagata-u.ac.jp](mailto:yin@human.kj.yamagata-u.ac.jp)).
  19. *Member*, International Advisory Board “International Conference on Agile Manufacturing (ICAM-14),” Bharat Institute Technology, By pass road, Partapur, Meerut, UP, INDIA -250103, April 11-12<sup>th</sup>, 2014 (Invited December 15, 2013, Program Chair: Professor J. S. Virk).
  20. *Publicity Co-Chair and Program Committee Member*, “International Conference on Information, Management Science and Applications,” (ICIMSA2014), Hilton Beijing Wangfujing, Beijing China, October 38-30, 2014 (Invited June 12, 2014, General Co-Chair: Professor Kuinam J. Kim).
  21. *Member, Technical Program Committee*, The 3<sup>rd</sup> China & Singapore International Conference on Port and Ocean Engineering (ICPOE2014), Shanghai, China, October 24-26, 2014 [Invited by: Professor Youfang Huang, President of Shanghai Maritime University, China].
  22. *Member, International Scientific Committee*, 2014 International Conference on Engineering Management and Industrial Engineering (EMIE2014), Xiamen, China, October 16-17, 2014 [Invited by: Prof. Mu-Song Chen, Da-Yeh University, Taiwan and general Chair of EMIE2014: Email:[emie2014@vip.163.com](mailto:emie2014@vip.163.com) ].
  23. *Chair, Advisory Committee*, 2015 3<sup>rd</sup> Asia Conference on Mechanical and Materials Engineering (ACMME-2015), Chengdu, China, July 23-24, 2015 [Invited on September 24, 2014 by General Chair, Prof. Shinn-Liang Chang and Prof. Gong Hao: POC: Lyn Lee, Email: [lynlee@saise.org](mailto:lynlee@saise.org)].
  24. *Chair, Advisory Committee*, 2016 International Conference on Mechanical and Materials Technology (ICMME-2015), Chiang Mai, Thailand, July 14-16, 2016 [Invited on August 7, 2015 by General Chair, Prof. Shinn-Liang Chang and Prof. Gong Hao: POC: Lyn Lee, Email: [lynlee@saise.org](mailto:lynlee@saise.org)].
  25. *Member, Technical Program Committee*, First International Conference on Computational Intelligence, Communications, and Business Analytics (CICBA - 2017), March 24-25, 2017, Calcutta Business School, Kolkata, India [POC: Dr. Somnath Mukhopadhyay, Program Committee Chair, invited November 18, 2016].
  26. *Member, Technical Program Committee*, Thirds International Conference on Innovation and Industrial Logistics (ICIIL - 2017), July 1-3, 2017, Pentahotel—Hong Kong, 19 Luk Hop

Street, San Po Kong, Kowloon, Hong Kong [POC: Ms. Hebe Liu, Conference Secretary, email: [iciil\\_conference@126.com](mailto:iciil_conference@126.com), invited May 19, 2017].

27. *Member, Technical Program Committee*, International Conference on Innovative Trends in Science, Information Technology and Business-2018 at Institute of Engineering & Management, Salt Lake, Kolkata, India; January 27-28, 2018 [POC: Prof. Krishnendu Rarhi, Corresponding Editor, email: [anirban@klyuniv.ac.in](mailto:anirban@klyuniv.ac.in), invited August 14, 2017].
28. *Member, Technical Program Committee*, 2nd International Conference on Computational Intelligence, Communications, and Business Analytics (CICBA - 2018), Kalyani Government Engineering College, Kalyani, India; July 27-28, 2018 [POC: Dr. Somnath Mukhopadhyay, Department of Computer Science & Engineering, Assam University, Silchar, India, email: [som.cse@live.com](mailto:som.cse@live.com), invited February 15, 2018].
29. *Member, Advisory Board*, International Conference on Emerging Technologies in Data Mining and Information Security (IEMIS-2018), School of Information Technology (Institute of Engineering and Management), University of Engineering & Management, University Area, Plot No. III – B/5, w Town, Action Area – III, Kolkata – 700 156 (INDIA), February 23-25, 2018 [POC: Prof. Krishnendu Rahri, [Krishnendu.rarhi@iemcal.com](mailto:Krishnendu.rarhi@iemcal.com) ].
30. *Member, International Program Committee* (Annual ASPAI' 2019 Conference): International Conference on Advances in Signal Processing and Artificial Intelligence, March 20-22, 2019 – Barcelona, Spain (POC: Professor Sergey Y. Yurish, ASPAI' 2019 Conference Chairman, Barcelona, Spain, E-mail: [SYurish@sensorsportal.com](mailto:SYurish@sensorsportal.com)).
31. *Member, Organizing Committee OSCINE GROUP*, Global Congress on Oil, Gas, Petroleum and Petrochemistry, 17-19 June, 2019-Dubai,UAE (George Mueller, GCOGPP-2019, Event Manager, email: [organizer.gcogpp@oscinegroup.com](mailto:organizer.gcogpp@oscinegroup.com)).
32. *Member, International Program Committee*: International Conference on Computer Science & Information Technology, July 19-20, 2019 at C.V. Raman College of Engineering, Bhubaneswar (POC: Prof. Brojo Kishore Mishra, C. V. Raman College of Engineering, Bhubaneswar, India. C & WA: +91- 9437875808; Email: [bkmishra@cvrgi.edu.in](mailto:bkmishra@cvrgi.edu.in), invited November 15, 2018).

**(B) LEADERSHIP/ORGANIZATIONAL ACCOMPLISHMENTS:**

- (1) *Third Place*, National Outstanding Chapter, Alpha Pi Mu Honor Society at Louisiana State University at Baton Rouge (served as Faculty Advisor), 1993-94.
- (2) *Third Place*, National Outstanding Chapter, Alpha Pi Mu Honor Society at Louisiana State University at Baton Rouge (served as Faculty Advisor), 1994-95.
- (3) *Second Place*, National Outstanding Chapter, Alpha Pi Mu Honor Society at Louisiana State University at Baton Rouge (served as Faculty Advisor), 1995-96.
- (4) *Third Place*, National Outstanding Chapter, Alpha Pi Mu Honor Society at Louisiana State University at Baton Rouge (served as Faculty Advisor), 1996-97.

**(C) BOOK REVIEWS FOR PUBLISHERS PRIOR TO PUBLICATION:**

- (1) *Production and Operations Management* (4th edition, 1989) by Norman Gaither, Dryden Press, Hinsdale, IL, 1988-89.
- (2) *Introduction to Engineering Design Optimization* (1st edition, 1997) by Chinyere Onwubiko, PWS Publishing Company Boston, MA 02116-4324, November 1996.
- (3) *Manufacturing Systems Modeling and Analysis* (1st edition, 2003) by Guy L. Curry, Brooks/Cole Duxbury Publishing Company, Belmont, CA 94002; March 16, 2003.
- (4) *Introduction to Statistical Quality Control: Design and Six Sigma* by Theodore Allen, 1<sup>st</sup> Edition, Prentice-Hall, Inc. Upper Saddle River, NJ 07458, May 15, 2004.
- (5) *Applied Statistics and Probability for Engineers* by Douglas C. Montgomery and George C. Runger, 4th Edition, John-Wiley & Sons, Inc. New York, NY, September 15, 2004.
- (6) *Statistical Quality Design and Controls* by Richard E. DeVor, Tsong-how Chang, and John W. Southerland. 2nd Edition (2007), ISBN: 0-13-041344-5, Prentice-Hall, Inc. Upper Saddle River, NJ, November 19, 2005.
- (7) *Engineering Economics* by Stephen Robinson. 1st Edition, John Wiley & Sons, Inc., Hoboken, NJ, July 9, 2006 [POC: Lindsay Murdock].
- (8) *Operations Research: An Introduction* By Hamdy A. Taha, Pearson Publication, reviewed February, 2009 (9<sup>th</sup> edition).
- (9) *Operations Research: An Introduction* By Hamdy A. Taha, Pearson Publication, reviewed March 18, 2015 (10<sup>th</sup> edition).
- (10) *Production and Operations Analysis* By Steven Nahmias and Tava L. Olsen, Waveland Press, Long Grove, IL 60047; reviewed June 14, 2017 (for 8th edition); POC (Don Rosso, Edition Manager, djr@waveland.com).
- (11) *Production Parameters* By Sanjay Sharma, National Institute of Industrial Engineering (NITIE), Cambridge University Press, New Delhi, reviewed June 14, 2017 (for new edition); POC (Gauravjeet Singh Reen, Senior Commission Editor—STM, gsreen@cambridge.org).

***After-Publication Review/Survey of Textbooks for Publishers:***

1. *Simulation Methodology for Statisticians, Operations Analysts, and Engineers, Vol. I*, (1st edition, 1989) by P. A. Lewis and E. J. Orav, Wadsworth & Brooks/Cole Advanced Books & Software, Pacific Grove, CA [ISBN: 0-534-09450-3], March 1993.
2. *Manufacturing Facilities: Location, Planning, and Design* (2nd edition 1999) by Dileep R. Sule, International Thompson Publishing (ITP), Boston, MA [ISBN: 0-534-93435-8], May 1994.

3. *Statistical Quality Assurance Methods for Engineers* (1st edition, 1999) by Stephen Vardeman and J. Marcus Jobe, John Wiley & sons, Inc., New York, NY [ISBN: 0-471-7654321], November 1998.
4. *Total Quality Management* (2nd edition, 1999) by Dale H. Besterfield, *et al.*, Prentice-Hall, Inc., Upper Saddle River, NJ [ISBN: 0-13-639403-5], April 1999.
5. *Combinatorial Algorithms: Generation, Enumeration, and Search* (1st edition 1999) by Donald L. Kreher and Douglas R. Stinson, CRC Press, New York [ISBN: 0-8493-3988], May 1999.
6. *Fundamentals of Engineering Economics*, 2<sup>nd</sup> edition (2008), by Chan S. Park, Prentice Hall, Upper Saddle River, NJ 07458 (February 12, 2007).
7. *Fundamentals of Engineering Economics*, 3rd edition (2011), by Chan S. Park, Prentice Hall, Upper Saddle River, NJ 07458 (February 18, 2011)

**(D) JOURNALS WHEREIN TECHNICAL PAPERS WERE PUBLISHED:**

- *Applied Mathematical Modelling*
- *Advanced Engineering Informatics*
- *Annals of Operations Research*
- *ASCE-Journal of Transportation Engineering*
- *Automation in Construction*
- *Computers and Chemical Engineering*
- *Computers in Industry*
- *Computers & Industrial Engineering*
- *Computers & Operations Research*
- *European Journal of Operational Research*
- *IIE Transactions*
- *Industrial Engineering Journal (India)*
- *Integrated Manufacturing Systems*
- *Integrated Journal of Advanced Manufacturing Technology*
- *International Journal of Industrial & Systems Engineering*
- *International Journal of Operations Research and Information Systems*
- *Industrial & Systems Engineering*
- *International Journal of Production Economics*
- *International Journal of Production Research*
- *International Journal of Quality and Reliability Management*
- *Journal Manufacturing Systems*
- *Journal of the Operational Research Society*
- *Journal of the Institute of Engineers (India)*
- *Journal of Operations Management*
- *Management Development*
- *OPSEARCH*
- *Production Planning & Control*

**(E) REVIEWED PAPERS FOR JOURNALS:**

- *Applied Mathematical Modelling*
- *Advanced Engineering Informatics*

- *Analysis and Modeling of Manufacturing Systems*
- *Annals of Operations Research*
- *Asia-Pacific Journal of Operational Research*
- *ASCE-Journal of Transportation Engineering*
- *Automation in Construction*
- *Computers and Chemical Engineering*
- *Computers in Industry*
- *Computers & Industrial Engineering*
- *Computers & Operations Research*
- *Decision Sciences*
- *European Journal of Operational Research*
- *IEEE Transactions on Systems, Man and Cybernetics*
- *IIE Transactions*
- *Integrated Journal of Advanced Manufacturing Technology*
- *Integrated Manufacturing Systems*
- *INTERFACE*
- *International Journal of Flexible Manufacturing Systems*
- *International Journal of Production Economics*
- *International Journal of Production Research*
- *International Journal of Operations and Production Management*
- *International Journal of Operations and Quantitative Management*
- *International Journal of Quality and Reliability Management*
- *International Journal of Systems Sciences*
- *International Transactions in Operations Research*
- *Journal of Applied Mathematics and Decision Sciences*
- *Journal of Industrial & Systems Engineering*
- *Journal of Manufacturing Systems*
- *Journal of Manufacturing Processes*
- *Journal of Operations Management*
- *Journal of the Operational Research Society*
- *Location Science*
- *Management Science*
- *Manufacturing & Service Operations Management*
- *Mathematical and Computer Modelling*
- *Mathematics Today*
- *OMEGA: The International Journal of Management Science*
- *Operations Research*
- *OPSEARCH*
- *Proceedings of the 24th Interl. Confce. on Flexible Autom. & Intelligent Mfg (FAIM),*
- *Proceedings of the Intl. Conference on Computers & Industrial Engineering*
- *Proceedings of the Decision Sciences Institute Conference*
- *Proceedings of the IEEE Conference on Robotics and Automation*
- *Proceedings of the Industrial Engineering Research Conference*
- *Proceedings of the Industrial Engineering & Operations Management (IEOM)*
- *Production and Operations Management*
- *Production Planning & Control.*

<i>Year</i>	<i>1986-2013</i>	<i>2014</i>	<i>2015</i>	<i>2016</i>	<i>2017</i>	<i>2018</i>
<i>Number of Papers Reviewed</i>	422	12	15	10	12	15

#### **(F) REVIEWER FOR FUNDING AGENCIES:**

- *National Science Foundation (NSF)*, Washington, DC:
  - Review Panel (DMII: Operations Research and Production Systems):
    - December 1995 (17 proposals).
  - Reviewer (Decision Risk and Management Science):
    - Spring 1997 (15 proposals).
  - Review Panel (Operations Research and Production Systems):
    - May 1997 (12 proposals), June 1997(2 proposals), November 2000 (15 proposals).
  - Review Panel (Integration Engineering)
    - April 2001 (12 proposals).
  - Reviewer Panel (CMII)
    - April 2007 (1 proposal), December 3, 2008 (9 proposals).
- *University of Rhode Island Transportation Center (URITC)*, Kingston, RI:
  - Reviewer for Research Proposal,
    - March 14, 2002 (1 proposal).
- *Research Grants Council (RGC)*, Hongkong, China
  - Proposal #11214615: "Optimization of site layout planning for multiple construction phases using a discretized cell approach", March 20, 2015 (Contact: Miss. Alice Tang, rgcl@ugc.edu.hk).
  - Proposal #A-CityU102/16: "Reliability and Maintenance in Intelligent Energy Production and Efficient Resource Planning", July 11, 2016 (Contact: Miss. Rose Tang, rgcl@ugc.edu.hk).

#### **(G) PROMOTION & TENURE EVALUATIONS**

American University at Sarjah, 2007  
Asian Institute of Technology, 2003  
Asian Institute of Technology, 2008  
Bilkent University, 2005, 2009  
Hong Kong Polytechnic University 2011, 2014, 2015, 2016  
Jordan University 2016  
Lawrence Technological University, 2013  
New Jersey Institute of Technology, 2016  
New Mexico State University, 2004  
Southeastern Louisiana State University 2002  
Southern Methodist University 2013  
Sultan Qaboos University, 2013  
Tel-Aviv University, 2004, 2008  
University of Alabama, 2008  
VPI & State University, 2005

#### **(H) PROFESSIONAL SERVICES:**

##### ***Session Chair:***

1. WA-27: Inventory Theory, *ORSA/TIMS Joint National Meeting*, Denver, CO, October 23-26, 1988.



2. TB-28: Facility Layout, *ORSA/TIMS Joint National Meeting*, Las Vegas, NV, May 7-9, 1990.
3. TB-55: Inventory Control and Queuing Networks, *3rd Industrial Engineering Research Conference*, Atlanta, GA, May 18-19, 1994.
4. WB-61: Dynamic Systems, *4th Industrial Engineering Research Conference*, Nashville, TN, May 24-25, 1995.
5. SA4 (2): Sizing and Scheduling Interfaces, *6th Production and Operations Management Society Conference*, Pittsburgh, PA, October 7-10, 1995.
6. SC8: Planning and Control Systems for New Process Technologies, *6th Production and Operations Management Society Conference*, Pittsburgh, PA, October 7-10, 1995.
7. SD5: Cellular Design and Layout, *INFORMS (Institute For Operations Research and Management Science) National Conference*, New Orleans, LA, October 29-November 1, 1995 (invited session).
8. WC15: Resource Allocation, *INFORMS (Institute For Operations Research and Management Science) National Conference*, New Orleans, LA, October 29-November 1, 1995 (invited session).
9. T6. 1: Manufacturing Economics, *19th International Conference on Computers & Industrial Engineering*, Miami, FL, March 3-6, 1996.
10. SE18: Operations Management I, *INFORMS (Institute For Operations Research and Management Science) National Conference*, Atlanta, GA, November 3-6, 1996.
11. WD10: Logistics II, *INFORMS (Institute For Operations Research and Management Science) National Conference*, Atlanta, GA, November 3-6, 1996.
12. Sun 6-7: Production Systems, *6th Industrial Engineering Research Conference*, Miami Beach, FL, May 17-18, 1997.
13. Sun 7-5: Inventory, *6th Industrial Engineering Research Conference*, Miami Beach, FL, May 17-18, 1997.
14. SA-08: Cellular Manufacturing, *INFORMS (Institute For Operations Research and Management Science) National Meeting*, Dallas, TX, October 26-29, 1997.
15. TE-30: Scheduling and Inventory, *INFORMS (Institute For Operations Research and Management Science) National Meeting*, Dallas, TX, October 26-29, 1997.
16. MC32: Logistics-Supply Chains, *INFORMS (Institute For Operations Research and Management Science) National Meeting*, Montreal, Canada, April 26-29, 1998.
17. T-1: Inventory Systems, *25<sup>th</sup> International Conference on Computers & Industrial Engineering*, New Orleans, LA, March 29-31, 1999.
18. T-3: Cellular Manufacturing II, *25<sup>th</sup> International Conference on Computers & Industrial Engineering*, New Orleans, LA, March 29-31, 1999.

19. Track II: Manufacturing II (Product and Process Design), Sunday: 9<sup>th</sup> *Industrial Engineering Research Conference*, Cleveland, OH, May 17-18, 2000.
20. Session S16: Production and Inventory I, Sunday: 12<sup>th</sup> *Industrial Engineering Research Conference*, Hilton Towers at Portland, OR, May 17-21, 2003.
21. Session S118: Logistics and Scheduling 9, Monday: 12<sup>th</sup> *Industrial Engineering Research Conference*, Hilton Towers at Portland, OR, May 17-21, 2003.
22. Track TD33 (5): Sequencing and Scheduling II, *INFORMS (Institute For Operations Research and Management Science) National Meeting*, Atlanta, GA, October 19-22, 2003.
23. Track #IERC-28: Logistics and Inventory – 9: Supply Chain Integration I, 15<sup>th</sup> *Institute of Industrial Engineers Annual Conference*, Orlando, FL, May 20-24, 2006.
24. Track: Plenary Session (Invited Talk 11:45-13:45): Revenue Management, Network Analysis and Meta-analysis, the 39<sup>th</sup> *Annual Convention of Operational Research Society of India*, Heritage Institute of Technology, Kolkata, India, January 6, 2007.
25. Track: SC-1 (Supply Chain 1): Supply Chain Management, *International Conference on Industrial Engineering and Operations Management (IEOM-2010)*, Islamic University of Technology (IUT), Board Bazar, Gazipur, Dhaka, January 9-10, 2010.
26. TD-12: Supply Chain Systems (Consignment Stock), *INFORMS (Institute For Operations Research and Management Science) National Meeting*, Austin, TX, November 7-10, 2010.
27. A-1: Operations Research (Supply Chain Systems), *ICOSCM2012/ICSCMIS2012 (6<sup>th</sup> International Conference on Operations and Supply Chain Management & 9<sup>th</sup> International Conference on Supply Chain Management and Information Systems)* School of Management, Xi'an Jiao Tong University, Xi'an, China, July 14-18, 2012.
28. Technical Session I: Watermarking, Steganography & Signal Processing, 2<sup>nd</sup> *International Conference on Information systems Design and Intelligent Applications (INDIA-2015)*, Seminar Hall, Dept. of Computer Science & Engineering, 2:00-4:00PM, Organized by Faculty of Engineering, Technology and Management, University of Kalyani, Kalyani-741235, West Bengal, India; January 8, 2015.

**(I) LECTURE ORGANIZED:**

1. *Primary Host, Chancellor Distinguished Lecture Series* Speaker: Dr. Salah E. Elmaghraby, University Professor, North Carolina State University, Raleigh, NC: at LSU on March 10-12, 1999 [First speaker of the series; Total 250 attendees].
2. *Primary Host, Chancellor Distinguished Lecture Series* Speaker: Dr. Hanif D. Sherali, Member of the National Academy of Engineering, VPI and State University, Blacksburg, VA: at LSU on March 19-21, 2003: Total 203 attendees].

## 7. UNIVERSITY/COMMUNITY SERVICE

### A) SERVICE TO THE DEPARTMENT:

- *Advisor*, Alpha Pi Mu Society, 1991-97
- *Advisor*, Undergraduate Curriculum, 1991-93
- *Member*, Graduate Curriculum Committee, 1991-92
- *Member*, Manufacturing Research Group, 1991-92
- *Member*, Faculty Search Committee, 1991-92
- *Member*, IMSE Department Chair Search Committee, 1993-94
- *Chairman*, Scholarships and Awards Committee, 1991-2000
- *Coordinator*, MSIE Board of Regents Self-Assessment Review Report, 1992
- *Member*, Strategic Planning Committee, 1994-1998
- *Chairman*, Sub-Committee on OR Curriculum, 1994-95
- *Member*, Curriculum Committee, 1994-1996
- *Member*, Research and External Funding Enhancement Committee, 1997-99
- *Contributor* to the IMSE Department Endowed Support Fund, 1997
- *Member*, Curriculum Committee (Updating and Information Technology), 1999-2001
- *Member*, Course Scheduling Committee, 1999-2000
- *Coordinator*, IMSE Graduate Program, 2000-2002; 2011-
- *Member*, EIT Tutorial Group, Fall 2000
- *Coordinator*, Graduate Seminar Series (Spring 1999, Fall 2000, Spring 2002)
- *Member*, Faculty Mentoring Drafting Committee (Fall 2001)
- *Member*, ITAP Student Selection Committee (2002)
- *Chair*, Curriculum Review Committee, 2004
- *Chair*, New- Faculty (untenured) Reappointment Evaluation Committee, Spring 2005
- *Chair*, Departmental Promotion and Tenure Committee, 2002- 2006
- *Member*, Faculty Search Committee (2005-2007)
- *Member*, Departmental Promotion and Tenure Committee, 2007-08
- *Member*, Departmental Promotion and Tenure Committee, 2008
- *Member*, Departmental Syllabus Committee for ABET (USC) for ABET, Spring 2009
- *Representative*, CMIE P&T Committee, Spring 2009.
- *Member*, Graduate Admission Committee 2010-2016
- *Member*, Curriculum Review Sub-Committee, 2010-2016
- *Member*, ME & IE Merging Transition Committee, 2011
- *Member*, IE P&T Committee, 2012, 2013
- *QC & Six Sigma Certification Committee*, 2013-2014
- *IE Scholarship Policy and Award Committee* 2013-2014
- *Chair*, Graduate (MSIE & PhD) Assessment Committee (2014-2015)
- *Chair*, Graduate Admission Form Review Committee (2014-2015)
- *Chair*, Graduate and Undergraduate Scholarship Committee (2014-2015)
- *Member*, Graduate Studies Committee (2017-2018)
- *Member*, Undergraduate Committee (2017-2018)
- *Member*, Promotion & Tenure or Faculty Recruitment Committee (2017-2018)
- *Member* of Statistical Textbook Selection Committee (October-November, 2018)

### (B) SERVICE TO THE COLLEGE OF ENGINEERING:

- *Member (Ex-Officio)*, College Academic Matters Committee, 1998-2001.
- *Member*, LSU COE Research Development Group, 2000-2010.

- *Member*, LSU COE P&T Ad-hoc Committee, Fall 2000
- *Member*, Coordination Council for Environ. & Technology Hazards Prevention, 2000-2001
- *Member*, COE Graduate Coordinator's Committee, 2001-2003
- *Member*, IMSE Department Chair Search Committee, 2001
- *Member*, COE MSES/PhDES Focus Group on Infrastructure, 2001.
- *Election Commissioner*, LSU Faculty Senator Selection from COE, 2001
- *Joint Election Commissioner*, LSU Faculty Senator Selection from COE, 2002, 2003
- *Alternate Member*, College Policy Committee, 2003.
- *Member*, LSU COE P&T Ad-hoc Committee, Fall 2003, 2004, 2005
- *Chair*, College of Engineering Promotion and Tenure (P&T) Committee, 2004-2005
- *Member*, LSU COE P&T Ad-hoc Committee, Spring 2006
- *Member*, College Policy Committee, (2007-2009)
- *Election Coordinator*, COE College Policy Committee, 2009
- *Member*, Pilot Program for Expanded Proposal Preparation, 2010
- *Member*, Supply Chain & Logistics External Collaboration Committee, 2009-2010

#### **(C) SERVICE TO THE UNIVERSITY**

- *Graduate School Representative* to doctoral examinations
- *Associate Member*, Graduate Faculty, 1990-96
- *Member*, Graduate Faculty, 1996-
- *Member*, Systems Science (Computer Science Dept.) Curriculum Committee, 1992-97.
- *Member*, Univ. Senate Committee on Admissions, Standards and Honors (ASH), 1994-97.
- *Primary Host*, Chancellor Distinguished Lectureship Series, March 10-12, 1999
- *Faculty Advisor*, Bangladesh Students' Association (LSU Students' Welfare), 1997-
- *Member*, University Senate Committee on Courses and Curricula, 1998-2001.
- *Member*, Dean Search Committee for the College of Engineering, 1999-2000.
- *Senator*, LSU Faculty Senate, 2000-2003.
- *Reviewer/Member*, 2001 Council on Research Sub-Committee on Summer Stipends at LSU.
- *Primary Host*, Chancellor Distinguished Lectureship Series, March 19-21, 2003
- *Member*, LSU Students' Aid and Scholarship Appeals Committee (SAS), 2003-2006.
- *Member*, LSU COE Research Development Group (RDG), 2002-04.
- *Member*, LSU Council of Research Advisory Planning Committee, 2003-2006
- *Member*, EDA Proposal Review Committee 2007, 2008
- *Member*, Eng. Res. & Dev Group (LSU Office of Research & Graduate Studies), 2004-
- *Senator*, LSU Faculty Senate, 2010-2013.
- *Faculty Mentor*, Chancellor's Future Leaders in Research (CFLR) Program, 2011-2012
- *Graduate School Representative* (Mathematics, December 2016)
- *Senator*, LSU Faculty Senate, 2018-2021.

#### **(D) SERVICE TO THE STATE AND FEDERAL GOVERNMENTS:**

- *Judge*, Capitol District Science Fair, LSU Field House, March 9, 1995
- *Special Judge*, Capitol District Science Fair (NASA Related Projects), March 9, 1995
- *Judge*, Louisiana State Science and Engineering Fair, April 7, 1995.
- *Jury*, U. S. District Court (Middle District of LA), Baton Rouge, LA, February 9, 1998
- *Judge*, Capitol District Science Fair, March 4, 1998
- *Judge*, Louisiana State Science and Engineering Fair, April 7, 1998.
- *Judge*, Capitol District Science Fair, LSU Field House, March 1, 2000
- *Judge*, Louisiana State Science and Engineering Fair, April 14, 2000.
- *Advisor*, NASA-MSFC Space Launch Initiative Cost and Econ. Research Group, 2001-02.

**(E) SERVICE TO NON-GOVERNMENT ORGANIZATIONS:**

- *Judge*, Pre-Teen America: Scholarship and Recognition Program, Springdale, AR, September 1-3, 2000.

**8. CURRICULUM DEVELOPMENT AND COURSES TAUGHT:**

**(A) NEW COURSES DEVELOPED:**

CM-4xxx: Construction Logistics and Procurement (LSU, Undergraduate; May 11, 2009)  
IE-3520: Supply Chain Logistics I (LSU, Undergraduate; April 18, 2006)  
IE-4512: Operations Research in Engineering II (LSU, Undergraduate; November 5, 1996)  
IE-4520: Supply Chain Logistics II (LSU, Undergraduate; April 18, 2006)  
IE-4530: Lean Manufacturing Systems (LSU, Undergraduate; April 18, 2006)  
IE-7382: Probability Theory in Engineering (LSU, Graduate; January 13, 1999)  
IE-7541: Linear Programming Algorithms (LSU, Graduate; Spring 1994, 2001, 2008)  
IE-7551: Queuing Theory (LSU, Graduate; Spring 1993)  
IE-7571: Network Modeling and Optimization (LSU, Graduate; Fall 2004)  
IE-7761: Production Planning & Control (LSU, Graduate; Spring 1993)  
IE-7762: Supply Chain Systems (LSU, Graduate; January 26, 2000)  
IE-7764: Logistics and Distribution Systems (LSU, Graduate; January 2010)  
IE-7765: Lean Production Systems (LSU, Graduate, August 2002; initiated as IE-7721)  
IE-7768: Sequencing and Scheduling (LSU, Graduate, Fall 2004, initiated as IE-7720)  
IE-7771: Engineering Design of Manufacturing Systems (LSU, Graduate; Fall 1994)  
IE-7720: Logistics and Industrial Distribution (LSU, Graduate; Fall 2006).

**(B) COURSES UPDATED:**

IE-3520: Supply Chain Logistics I (LSU, Undergraduate; May 31, 2008)  
IE-4510: Operations Research in Engineering I (LSU, Undergraduate; April 12, 1996)  
IE-4520: Supply Chain Logistics II (LSU, Undergraduate; May 31, 2008)  
IE-4512: Operations Research in Engineering II (LSU, Undergraduate; April 12, 1998)  
IE-7771: Design of Manufacturing Systems (LSU, Graduate; Revised Fall 1994)

**(C) COURSES TAUGHT:**

**(1) *Bangladesh Institute of Management (BMDC):***

Time and Motion Studies (BMDC-United Nations Development Program: 1977-78)  
Operations Control (BMDC-United Nations Development Program: 1977-78)  
Quantitative Decision Analysis (1978)  
Project Management (1977-78)  
Industrial Quality Control (1977-78)  
Facilities Planning and Layout (1977)  
Materials Management (1977-78)

**(2) *Syracuse University, Syracuse, NY:***

Math-316: Probability and Statistics (1979-82)

**(3) *The University of Oklahoma, Norman, OK:***

Math-412: Applied Probability and Statistics (Sp. 1983)

**(4) Centralia College, Centralia, WA:**

BA-100: Business Mathematics (1984-85)  
DP-130: Computer Logic (1984-85)  
DP-143: Computer Information Systems (1984-85)  
DP-151: Computer Languages (1984-85)  
DP-163: Systems Analysis (1984-85)

**(5) The University of Texas at Austin, TX:**

Man-335: Production and Operations Management (1986-87)

**(6) Texas A&M University, College Station, TX:**

INEN-315: Production Control Systems (1987-90)  
INEN-420: Operations Research I (1987-90)

**(7) Louisiana State University, Baton Rouge, LA:**

*Undergraduate Level:*

IE-3201: Engineering Economics (Sum 95, 00, 06, 07, Spg 06, 08, 09)  
IE-3302: Engineering Statistics (Spg 01, 06, 07, 09, 11, 14; Fall 04, 06, Sum 06)  
IE-3520: Supply Chain Systems I (Fall 11, 12, 15, 16, 17)  
IE-4362: Advanced Engineering Statistics (Fall 02, 03, 07, 08, 09, 10, 12, 14, 15; Spg 04, 07)  
IE-4382: Applied Probability Theory (Spg 96)  
IE-4419: Engineering Production Control (Fall 92, 93, 98, 00, 04, 05)  
IE-4453: Industrial Quality Control (Fall 98, 99; Spg 00, 02, 11)  
IE-4510: Operations Research in Engineering I (Spg 95, 01, 05, 07)  
IE-4511: Industrial Simulation (Fall 90, 91, 92, 94, 95, 96, 97, 01)  
IE-4512: Operations Research in Engineering II (Spg 96)  
IE-4520: Supply Chain Logistics II (Spg 08, 09, 10, 11, 12, 13, 14, 15, 18)  
IE-4540: Reliability Engineering (Spg 93, 94, 97, 98, 99, 03, 07, 08, 10)  
IE-4597: IE Senior Design Projects I (Spg 2018).  
IE-4598: IE Senior Design Projects II (Spg 2012, F2018).  
IE-4599: IE Senior Design Projects (Spg 2012).

*Graduate Level:*

IE-7541: Linear Programming Algorithms (Fall 96, 08, 12, 16)  
IE-7561: Programming Methods in Oper. Res. (Spg, 91; Fall 94, 10, 17)  
IE-7720: Production Scheduling and Inventory Systems (Fall 91)  
IE-7720: Production and Mfg. Systems (Spg 93)  
IE-7721: Analysis of Industrial Operations (Spg 92)  
IE-7721: Design of Production and Manufacturing Systems (Fall 92)  
IE-7761: Production Planning & Control (Fall 93, 95, 97, 01)  
IE-7762: Supply Chain Systems (Fall 00, 02, Spg 04, 09, 13)  
IE-7771: Design of Manufacturing Systems (Spg 94, 95, 97, 98, 99, 00, 02, 06, 17).  
IE-7765: Lean Production Systems (Spg 03, 05, Fall 07, 11)  
IE-7768: Sequencing and Scheduling (Fall 03, 05, Spg 13)  
IE-7720: Logistics and Industrial Distribution (Fall 06)

## 9. THESES/DISSERTATIONS COMMITTEES SERVED:

### (A) POST-DOCTORAL/VISITING PROFESSORS/SCHOLARS SUPERVISION:

1. **Dr. Zhixiang Chen** (Professor, Department of Management Sciences, School of Business, Sun Yat-Sen University, 135 Xingang Xi Road, Guangzhou 510275, P. R. of China), DURATION: September 11, 2007 – June 30, 2008, RESEARCH CONCENTRATION: Supply Chain Logistics and Lean/JIT Production Systems [Funded by China Scholarship Council].
2. **Dr. Bibhas C. Giri** (Associate Professor, Department of Mathematics, Jadavpur University, Kolkata-700032, India), DURATION: February 1, 2012 – September 30, 2012, RESEARCH CONCENTRATION: A quantitative study of managing disruption risks in supply chains (Funded by the Fulbright Council for International Exchange of Scholars, Washington, DC).
3. **Dr. Huaye Huang** (*PhD Dissertation*: A Study on Cluster-Supply Chain Collaboration and Performance Evaluation Based on the Third Party Logistics), Assistant Professor Department of Logistics Management, School of Logistics Engineering, Wuhan University of Technology (WHUT), 122 Luoshi Road, Wuhan, Hubei, P. R. China, 430070). DURATION: August 6, 2012 – August 4, 2013, RESEARCH CONCENTRATION: Cluster Supply Chain and Third-party Logistics [Funded by China Scholarship Council].
4. **Dr. Cunrong Li (Kevin Lee)** (*PhD Dissertation*: Application Research on the Knowledge Discovery in Manufacturing Information, Wuhan University of Technology, 2006), Associate Professor, Department of Industry Engineering, School of Mechatronics, Wuhan University of Technology (WHUT), Wuhan, Hubei, P. R. China, 430070). DURATION: December 3, 2012 – December 31, 2013, RESEARCH CONCENTRATION: Manufacturing Informatics and Supply Chain Systems [Funded by China Scholarship Council].
5. **Dr. Meng Yu** (*PhD Dissertation*: Research on Constrained Terminal Scheduling Systems based on Multiple Agents, Wuhan University of Technology, 2007), Associate Professor, Department of Logistics Automation, School of Logistics Engineering, Wuhan University of Technology (WHUT), Wuhan, Hubei, P. R. China, 430070). DURATION: August 19, 2013 – August 20, 2014, RESEARCH CONCENTRATION: Dynamic and Stochastic Logistic Problems [Funded by China Scholarship Council].
6. **Dr. Huizhi Yi** (*PhD Dissertation*: Optimal Consignment Stocking Policies for a Supply Chain under Different System Constraints, Louisiana State University, 2013), Assistant Professor of Industrial Technology, Northwestern State University, Natchitoches, LA 71497 LA. DURATION: January 2 2014 – August 18, 2014; RESEARCH CONCENTRATION: (a) Utilizing operations research methodology to gas/energy industry (Current Project: Optimal configurations of natural fracture realization to minimize the total least squared errors of distances between micro-seismic events and nearby grids), (b) Supply chain and lean production systems [under OPT arrangement by LSU].
7. **Ruiqing Zhang** (*Thesis*: Computer Application Technology, Nanchang Hangkong University, 2009), Associate Professor & Vice-Chairman, Dept. of Management Science &

Engineering, Hangkong University, Nanchang, Jiangxi 330064, China; DURATION: October 26, 2015 – October 26, 2016; RESEARCH CONCENTRATION: Supply Chain and Logistics Information Systems [funded by Research Abroad Project of Nanchang Hangkong University].

8. **Kuo-Lung (Godwin) Hou**, Department of Industrial Engineering and Management, Overseas Chinese University, No. 100, Chiao Kwang Rd. Taichung 40721, Taiwan; DURATION: August 1, 2016 – July 31, 2017; RESEARCH CONCENTRATION: Supply Chain and Manufacturing Logistics [funded by Taiwan Ministry of Science and Technology and OCU].
9. **Li-Chiao (Lisa) Lin**, Associate Professor & Vice-Chairman, Dept. of Business Administration, National Chin-Yi University of Technology, No. 57, Sec. 2, Zhongshan Rd., Taiping, Taichung 41170, Taiwan; DURATION: August 1, 2016 – July 31, 2017; RESEARCH CONCENTRATION: Supply Chain and Logistics Systems [funded by Taiwan Ministry of Science & Technology and National Chin-Yi University of Technology].
10. **Tien-Yu Lin**, Associate Professor, Department of Marketing and Supply Chain, Overseas Chinese University, No. 100, Chiao Kwang Rd. Taichung 40721, Taiwan; DURATION: January 21, 2018 – January 20, 2019; RESEARCH CONCENTRATION: Supply Chain and Green Manufacturing Logistics [funded by Taiwan Ministry of Science and Technology and OCU].
11. **Haoliang Wang**, Lecturer, Department of Management Engineering, College of Engineering Nanjing Agricultural University, Nanjing, Jiangsu 210096, P. R. China. DURATION: September 10, 2018 – September 9, 2019; RESEARCH CONCENTRATION: Adaptive Scheduling for Manufacturing Logistics [funded by Nanjing Agricultural University].
12. **Md. Shahriar J. Hossain**, Assistant Professor, Department of Industrial & Production Engineering, Bangladesh University of Engineering & Technology, Dhaka, Bangladesh. Voluntary Post-doctoral Researchers (OPT- Optional Professional Training); DURATION: September 1, 2018 – December 31, 2018; RESEARCH CONCENTRATION: Manufacturing Logistics.

#### ***International UG Visiting Intern:***

1. **Sharon Orengo** (Department of Applied Mathematics and Modeling, PolyTech Lyon, University of Lyon 1, Lyon, France): Area of concentration Supply Chain and Logistic Systems (An optimal vendor-buyer cooperative inventory model with imperfect production and lead time sensitive transportation cost), September 5, 2017 – January 24, 2018; Contact: Phone: +11 (0033) 6 1157-5393; email: [sharon.orengo@etu.univ-lyon1.fr](mailto:sharon.orengo@etu.univ-lyon1.fr).

#### **(B) PHD DISSERTATION SUPERVISED:**

1. **Junfang Yu** (Machine-cell location problems for multi-product flow lines), LSU-IMSE Department, October 20, 1999; 381 pages (Advisor: Bhaba R. Sarker). Currently Associate Professor of Industrial Engineering, The University of Tennessee at



Knoxville, TN. [4 journal papers in *EJOR* and *COR*; 3 proceedings papers, and 3 presentations]. Associate Professor, Department of Industrial Engineering and Engineering Management, University of Tennessee, Knoxville, TN.

2. **Shaojun Wang** (Control of Supply Chain Systems by Kanban Mechanism), LSU-IMSE Department, March 20, 2001; 190 pages (Advisor: Bhaba R. Sarker). Professor of Industrial and Engineering Technology, Southeast Missouri University, Cape Girardeau, MO [7 journal papers in *EJOR*, *JORS*, *COR*, *JORS*, *IJPE*, and *PPC*; 6 proceedings and 5 presentations]. [Professor of Industrial Engineering, Southeast Missouri State University, Cape Girardeau, MO].
3. **Ahmad Diponegoro** (Finite-Horizon Operations Planning for a Lean Supply Chain System), LSU-IMSE Department, May 13, 2003; 162 pages (Advisor: Bhaba R. Sarker). Consultant in Indonesia. [7 papers in *IJPE*, *COR*, *EJOR*, *JORS* and *OPSEARCH* and 4 proceedings papers, and 2 conference presentations]. Professor, Badong Institute of Technology, Indonesia.
4. **Pablo Biswas** (Optimal Control of Production and Distribution in a Supply Chain System Operating under a JIT Delivery Policy), LSU-IE Department, defense: November 20, 2006, 131 pages (Advisor: Bhaba R. Sarker). 1 paper in *IJPR* and [4 papers in review by *EJOR*; *IJPR*, *OPSEARCH* and *JORS*, 4 proceedings papers, and 2 conference presentations]. [Assistant Professor, TAMU, Laredo, TX and Mercer University, Macon, GA].
5. **Mohammad Anwar Ashek Rahman** (Stochastic Demand Forecast and Inventory Management of a Seasonal production in a Supply Chain System), LSU-CMIE Department (Engineering Science), Defense: October 4, 2007; 106 pages (Advisor: Bhaba R. Sarker). 1 paper in *EJOR* and 3 conference presentations. Associate Professor of Industrial Engineering, University of Southern Mississippi, Hattiesburg, MS.
6. **Huizhi Yi** (Optimal Consignment Stocking Policies for a Supply Chain under Different System Constraints), LSU-MIE Department (Engineering Science), Proposed March 20, 2012; Defended: October 29, 2013, 256 pages (Advisor: Bhaba R. Sarker). 2 papers in *Applied Soft Computing*, 2 in *IJPR*, 1 in *COR*, and 3 conference presentations; also, 3 papers in review process and 3 papers are under preparation. [http://etd.lsu.edu/docs/available/etd-11122013-135958/unrestricted/Yi\\_dis.pdf](http://etd.lsu.edu/docs/available/etd-11122013-135958/unrestricted/Yi_dis.pdf)
7. **Bingqing Wu** (Optimal Location of Biomethane Gas Manufacturing Plants and Allocation of Feedstock and Liquefied Carbon Product), LSU-MIE Department (Engineering Science), Proposal: August 7, 2014; Defended: April 1, 2015; 152 pages (Advisor: Bhaba R. Sarker). <http://etd.lsu.edu/docs/available/etd-04042015-010146/>
8. **Md. Shahriar Jahan Hossain** (Throughput and Yield Improvement for a Continuous Discrete-Product Manufacturing System), LSU-MIE Department (Engineering Science), Proposal Defense: September 18, 2017, Defended: May 1, 2018; 265 pages (Advisor: Bhaba R. Sarker). Published: 4 journal papers, 6 in review process; 8 proceedings papers, 6 conference papers.

**(C) MS THESES/REPORTS SUPERVISED:**

1. P. Sobhan Babu (A Construction Heuristic for One-dimensional Machine Location Problems); An MS Thesis (145 pages), LSU-IMSE Department, March 30, 1993.
2. Jose R. G. Leal DosSantos (Evaluation of the Classed-based Storage Scheduling Technique Applied to Dual Shuttle Automatic Storage and Retrieval Systems), An MS Thesis (85 pages), LSU-IMSE Department; December 1993 (Co-advisor: Lawrence Mann); [1 paper in *PPC*].
3. Haixu Pan (Minimization of Utility Time and Idle Time of Operators in a Mixed-Model Assembly Line); An MS Thesis (119 pages), LSU-IMSE Department, October 29, 1993, [4 papers in *IJPE*, *C&IE*, *JORS*, and *IJPR*, 4 proceedings]. [ABC Manufacturing Co., San Jose, CA].
4. Junfang Yu (A Procedure for Solving Bottleneck Problems in a Cellular Manufacturing System: An MS non-thesis research report published in *IJPR*); LSU-Engineering Science, February 3, 1994 [3 papers *IJPR*, *C&IE*, and *IJQRM*, 2 proceedings and 2 conference papers]. [Asst. Professor at Southern Methodist University, LSU and Associate Professor, UT-Knoxville, TN].
5. Vijay S. Nori (A Branch-and-Bound Approach to Solve One-Dimensional Machine Location Problems); An MS Thesis (201 pages), LSU-IMSE Department, August 4, 1994 (**1995 IIE Graduate Research Award winner (2<sup>nd</sup> Prize) for MS Thesis**), [3 papers in *JORS* and *PPC*, 1 proceeding paper and 1 presentation]. [Senior Consultant, Velent, Inc., Atlanta, GA].
6. Chidambaram V. Balan (Operations Planning for A Multi-stage Kanban System with Linear Demand), An MS Thesis (147 pages), LSU-IMSE Department, February 2, 1996 [4 papers *IJPR*, *EJOR*, and *IJPE*, 2 proceedings and 4 presentations]. [Manager, US Airline, Chicago, IL].
7. Khan Md. Saiful Islam (Similarity Coefficient Measure for the Design of Cellular Manufacturing Systems), An MS Thesis (119 pages), LSU-IMSE Department, March 19, 1998 [2 journal papers in *C&IE*, and *IJPR*; 2 proceedings papers].
8. Mahbubur R. Chowdhury (Optimal Ordering Policies for Products with Shelf Lives), An MS Thesis (90 pages), LSU-IMSE Department, May 14, 1998 [1 journal paper in *IJPR*, and 1 proceedings].
9. Shaojun Wang (A Depot Allocation Model for Electric Power Restoration after A Natural Disaster); An MS Thesis (119 pages), LSU-IMSE Department, December 4, 1998 [1 journal paper in *EJOR*; 2 proceedings papers]. [Associate Professor, SE Missouri State University].
10. Ahmad Diponegoro (Asymmetric and unequally-spaced machine location problem in a multi-product flowline), An MS Thesis (154 pages), LSU-IMSE, May 17, 2000. **2001 IIE Graduate Research Award winner (2<sup>nd</sup> Prize) for MS Thesis**. [2 journal papers in *EJOR*, and *JORS*; 4 conference presentations]. [Faculty, Badung Institute of Technology, Indonesia].

11. Pablo Biswas (Optimal batch quantity models for a lean production system with rework and scrap), An MS Thesis (90 pages), LSU-IMSE Department, December 3, 2002 [2 journal papers under review by *JORS* and *C&IE*; 1 paper in conference]
12. Swati Kambalapally (Web-Mapping for AIDS Case Trends in Louisiana), An MS non-thesis Research Report (37 pages), LSU-Engineering Science, (Co-advisor: Nina S.-N. Lam, Department of Geography and Anthropology), December 9, 2002.
13. Mohammad Anwar Ashek Rahman (Supply chain models for an assembly system with preprocessing of raw materials), An MS Thesis (87 pages), LSU-IMSE Department, December 9, 2002 [1 journal papers under review by *EJOR*], [Faculty at University of Southern Mississippi, Biloxi, MS].
14. Mahmood Abdullah Al Kindi (Optimal ordering policies in response to discount offer, An MS Non-thesis Research Report), An MS Thesis (26 pages), LSU-IMSE Department, November 26, 2003 [1 paper in *IJPE*], [Department of Mechanical and Industrial Engineering, Oman University].
15. Divesh Ojha (Optimal Batch Sizing for Imperfect Production Systems with Quality Assurance and Rework, An MS Non-thesis Research Report (56 pages), LSU-IMSE Department, December 2, 2003 [1 journal paper in *IJPR*]. [Assistant Professor, University of Texas at Denton, TX].
16. Erick J. Comeaux (Joint Optimization of Process Improvement Investments for Supplier-Buyer Cooperative Commerce), An MS Thesis (66 pages), LSU-IMSE Department, December 3, 2003 [2 journal papers in *JORS*]. [Manager, Crompton Chemical Corporation, Geismar, LA].
17. Sanjay Gurav (Route Planning of Automated Guided Vehicles for Container Logistics), An MS Thesis (63 pages), LSU-IMSE Department, March 31, 2004), [1 paper in *IJPR*].
18. Amresh D. Chawhan (An Optimal Ordering and Recovery Policy with Multiple Setups for Recoveries and Procurements), An MS Non-thesis Research Report (35 pages), LSU-IMSE Department, November 8, 2004 [1 paper under review by *OPSEARCH*].
19. Hengameh Tahmasebi (An Optimal Inventory Policy for an Integrated Supply System with Shortages Backordered: An Efficient Algebraic Approach), An MS Non-thesis Research Report (40 pages), LSU-IE Department, May 15, 2006 [1 paper for *EJOR*].
20. Deniz Mungan (An optimal operational policy for an integrated production-delivery system under continuous price decrease), An MS Thesis (77 pages), LSU-CMIE Department, March 30, 2007), [2 papers for *JORS* and *EJOR*].
21. Farhana Rahman (Three-Echelon Supply Chain Delivery Policy with Trade Credit Consideration), An MS Thesis (78 pages), LSU-CMIE Department, August 25, 2008.
22. Chiranjit Saha (An Operational Policy for a Single Vendor Multi-Buyer Integrated Inventory Supply Chain System Considering Shipping Time, An MS Thesis (68 pages), LSU-CMIE Department, March 20, 2010.
23. Ratkrit (Nai) Rochanaluk (Replenishment Policies for a Tree-type Three-Echelon Supply Chain System, An MS Thesis (98 pages), LSU-CMIE Department, May 17, 2011).

24. Bingqing Wu (An Optimal Production and Delivery Scheduling Model for a Supply Chain System of Deteriorating Items, An MS Thesis (63 pages), LSU-CMIE Department, defended September 29, 2011; graduated July 20, 2012).
25. Huizhi Yi (An Integrated Inventory System with Controllable Lead Time under the 'Consignment Stock' Case, An MS non-thesis Report (78 pages), LSU-CMIE Department, March 20, 2012).
26. Akintunde (Akin) Okedokun (An Inventory Control Policy an A Refinery to Optimize the Total Inventory System Costs, An MS non-thesis Report (35 pages), LSU-MIE Department, September 25, 2013).
27. Tasnim Ibn Faiz (Minimization of Transportation, Installation and Maintenance Costs for Offshore Wind Turbines, An MS Thesis, 98 pages, LSU-MIE Department, proposal: February 6, 2014; Final defense: April 8, 2014).
28. Ana Lucia Amaya Arroyave (Evaluation of Harvesting and Storage Practices for Energycane Sweet Sorghum. An MS Thesis (230 pages), LSU-MIE Department; funded by DOE-USDA at LSU Audubon Sugar Institute, Proposal defended May 28, 2014; Final defense: July 10, 2014).
29. Jason M. Thompson (Determining the Optimal Expiration Date for Drug Manufacturers, An MS Non-thesis Report, 34 pages, LSU-MES Program, Final defense: July 2, 2015).
30. Md Shahriar J. Hossain (Optimal Configuration of Inspection and Rework Stations in a Multistage Flexible Flowline, An MS Thesis, 148 pages, LSU-MIE Department, Proposal defense: November 11, 2015; Final defense: March 15, 2016; online March 31, 2016). <http://etd.lsu.edu/docs/available/etd-03312016-152816/>. **(2017 Best Graduate Research Award Winner** for MS Thesis by IISE at the IISE Conference on May 21, 2017).
31. Mohamed Mohamed Ohaiba (Controlling Consignment Stock for A Production System Considering Transportation and Lead time for Delivery, An MS Non-thesis Research Report, 38 pages, LSU-MIE Department, Final defense: June 30, 2016).
32. Allen Mutoni (Cost and Time Benefits Benefits of Using Subsurface Utility Engineering in Louisiana), An MS Non-thesis Report, LSU-MES Program, Co-Advisor: Chester Wilmot, CE Department, Defended November 14, 2017).
33. Rana Hashemian Bojnoord (The effect of Time-dependent fuel price on inventory policy), An MS Non-thesis Report, 40 pages, LSU-MIE Program, Defended December 11, 2018).

***MS Students Currently Supervising:***

1. **Justin Neilson** (Supply Chain Control by Buying Houses, December 1917)
2. **Vansh Vyas** (Supply Chain logistics Systems, Fall 2016 - December 2018)
3. **Chelliah Arun Vijayanathan** (Logistics and Lean Production Systems, Fall 2016-Aug. 2018)

**(D) SERVED AS A MEMBER OF THE COMMITTEES**

***(i) PhD Dissertations:***

1. Mary P. Langley (Learning Horn-clauses as Classification Rules for Relations), LSU-Computer Science Department, Fall 1992 (Advisor: S. Kundu).
2. Joseph Claudet (An Exploration of the Organizational Structure of Instructional Supervision), LSU-College of Education, April 1, 1993 (Advisor: Chad D. Ellett).
3. Daryl D. Thomas (An Incremental Navigation Localization Methodology for Applications to Semi-Autonomous Mobile Robotic Platforms to Assist Individuals Having Severe Motor Disabilities), LSU-Computer Science Department, February 1, 1994 (Co-advisors: S. S. Iyengar and James Oxley).
4. Maurice George Durler (An Empirical Analysis of the Association Between the Intercompany Effects of Electronic Data Interchange and Level of Computerization and Integration of the Accounting Information System in Small Business), LSU-Accounting Department, March 4, 1997 (Advisor: Michael S. Luehlfling).
5. Robert (Bobby) C. Baker, IV (Customers' Perceptions of the Service They Receive: The Influence of Employee Extra-role Job Behaviors), LSU-Psychology (Industrial/Organizational Psychology) Department, June 29, 1999, (Advisor: Eric Braveman).
6. Chuang Zhang (Techniques for low voltage analog, digital and mixed signal integrated circuits design), LSU-Electrical and Computer Engineering Department, February 23, 2005, (Advisor: Ashok Srivastava and Pratul Ajmira).
7. James Douglas Rogers (Speech Communication), LSU-Department of Speech Communication, November 9, 2005 (Advisor: Loretta I. Pecchioni).
8. Kimberly Nichols LaPrairie (Insights into Using Emergenetics® STEP<sup>AM</sup> as a Selection and Placement Strategy to Enhance Process and Performance in High School Learning Groups), Department of Educational Leadership, Research and Counseling, February 15, 2007 (Advisor: Prof. Janice Hinson).
9. Hongye Wang (A Unified Methodology of Maintenance Management for Repairable Systems Based on Optimal Stopping Theory), Department of Industrial Engineering, LSU, July 28, 2008 (Advisor: Xiaoyue Jiang).
10. Glynn W. Cavin, Jr. (The Problem Solving Styles of Emergency Operations Center Staffs of Local and State Government Agencies), School of Human Resource Education & Workforce Development, May 14, 2009 (Advisor: Dr. Krisanna L. Machtmes).
11. Srivathsan Srinivasagopalan (Oblivious Network Design: Buy-at-Bulk Network Design Problems and Wireless Sensor Networks), LSU-Computer Science Department, April 13, 2011 (Co-Advisors: S. S. Iyengar and Costas Busch).
12. Paritosh Sharma (A Modeling, Optimization, and Analysis Framework for Designing Multi-product Lignocellulosic Biorefineries), LSU-Chemical Engineering, Proposed: February 25, 2011, defended on April 24, 2012 (Co-Advisor: Jose A. Romagnoli).

13. Gregory Robertson (Advanced and Novel Modeling Techniques for Simulation, Optimization and Monitoring Chemical Engineering Tasks with Refinery and Petrochemical Unit Applications), LSU Chemical Engineering, Proposed February 27, 2012, defended December 12, 2013 Co-Advisor: Jose A. Romagnoli).
14. Abhimanyu Halder (Semantics Analysis), LSU-Engineering Sciences Program, Proposed February 27, 2013 (Advisor: Gerry K. Knapp). Left the program.
15. Jerry Scott Weltman (Toward Digitizing the Human Experience: A new Resource for Natural Language Processing), LSU-Computer Sciences, Proposal defended: October 27, 2011, Dissertational defended: March 27, 2013 (Advisor: S. S. Iyengar).
16. Perry K. Iverson (Refining the Characterization of Projective Graphs), LSU-Mathematics, Dissertational defended: June 17, 2013 (Advisor: Guoli Ding).
17. Aryan Geraili Nejadfomeschi (A Comprehensive Optimization Framework for Designing Sustainable Renewable Energy Production Systems), Department of Chemical Engineering, Proposal Defense: October 9, 2013; Final Defense: February 23, 2015; Advisor: Jose A. Romagnoli).
18. Negar Dahi Taleghani (Effect of Oil Spill in the Gulf Coast on Louisiana Economy and Employment), Department of Petroleum Engineering, Proposal Defense: May 8, 2015; Final Defense: May 10, 2016; Advisor: Mayank Tyagi and Derek Terrell).
19. Lucius T. Schoenbaum, (Towards Theory and Applications of Generalized Categories to Areas of Type Theory and Categorical Logic), Department of Mathematics, Defense: November 29, 2016 (Advisor: Professor Daniel Sage).
20. Ric Simmons (Biomechanics), LSU-Engineering Sciences Program, Spring 2014-current time (Advisor: Fred Aghazadeh).
21. Ahmad Ebrahimi (Energy Consumption in Manufacturing Processes), Engineering Science Program Department of Mechanical & Industrial Engineering), March 8, 2017 (Advisor: Hyun Wu Jeon).
22. Nicholas M. Studer (Optimal Architectures for Sensing in Quantum Optical Metrology), Department of Physics and Astronomy), Proposal defense: April 24, 2018 (Advisor: Jonathan P Dowling).
23. Jose N. Martinez (Using reinforcement learning for reconfigurable systems) Engineering Science Program, Committee formed: December 17, 2018; Proposal defense: January, 2019 (Advisor: Gerry M. Knapp).

**(ii) MS Theses:**

1. Gyana R. Parija (Traffic Signal Timing Optimization Using Simulation and Dynamic Programming), LSU-IMSE Department; December 1991 (Advisor: Kwan S. Lee).

2. Srikanth Nagarajan (Implementation and Comparison of Methods for Identification of Wet Hazardous Locations), LSU-IMSE Department; December 1991 (Advisor: Kwan S. Lee).
3. Subhasis Mukherjee (Research Report), LSU-Civil and Environmental Eng., May 1993 (Advisor: Dipak K. Roy).
4. Imran Hashmi (An Investigation of Injuries in the Oil and Gas Field Services Industry in Louisiana), LSU-IMSE Department; December 1993 (Advisor: Fereydoun Aghazadeh).
5. Sembian Krishnamurthy (An Integrated Method for Facility Layout Design Using Heuristics and CAD), LSU-IMSE Department, September 20, 1995 (Advisor: Lawrence Mann, Jr.).
6. Aniruddha S. Deshpande (Construction of Logical Decision Rules for Pattern Classification from Complete and Incomplete Data), LSU-IMSE Department, June 14, 1995 (Advisor: Evangelos Triantaphyllou).
7. Damini Li (The Application of Fuzzy Pattern Recognition in Weld and Weld Defects Identification), LSU-IMSE, December 16, 1996 (Advisor: T. Warren Liao).
8. Md. Shabbir Talukder (Accelerated testing), LSU-IMSE, March 12, 1998 (Advisor: Gerald M. Knapp).
9. Jaydeep Khedkar (Tribological Performance of PTFE and PTFE Composites in Mechanical Seal Applications), LSU-ME (Engineering Science), December 3, 1998 (Advisor: Efsthios I. Meletis).
10. Peter Haynes (A Metaheuristic Approach for the Single Machine Tardiness Problem), LSU-IMSE, December 10, 1998 (Advisor: E. Triantaphyllou).
11. Milton Maada Saidu (Effects of automobile seating posture on trunk muscle activities), LSU-IMSE, February 6, 2004 (Advisors: Fred Aghazadeh and Craig Harvey).
12. Viswanath Uma Gnanasekaran (Improved Opportunity Cost Algorithm for Carrier Selection in Combinatorial Auctions), LSU-IMSE, March 12, 2004 (Advisor: Gerald K Knapp).
13. Harish J. Kingree (Bezier Curves for Metamodeling of Simulation Output), LSU-IMSE Department, September 24, 2004, (Advisor: Charles McAllister).
14. Billy Gerald Yeung-Vee-Kao (Distribution Tails Classification for Linear Physical Programming in Multidisciplinary Design Optimization, MS Report), LSU-IE Department, August 1, 2005 (Advisor: Charles D. McAllister).
15. Frank M. Pitts (Musculoskeletal Disorders in Dentistry), LSU-IE Department, November 15, 2005, (Advisor: Fred Aghazadeh).
16. Peng Zhu (Optimal Maintenance on Warranted Product and Maintenance Service Contract with Preventive Replacement), LSU-IE Department, November 15, 2005 (Advisor: Xiaoyue Jiang).

17. Maryam Muhammed Amin (Influence of Circadian Rhythm on the Physical and Mental Performance), LSU-IE Department, December, 2006 (Advisor: Fred Aghazadeh).
18. Sherwin Shaidae (LSU Course and Curriculum Management), LSU-IE Department, December 2006 (Advisor: Gerald Knapp).
19. Mohammad Anwar Ashek Rahman (Demand Forecast of a Seasonal Product prior to Mail Sale Period using Bayesian Techniques, 41 pages), MS Report, LSU-EXST Department, November 13, 2007 [Advisor: Luis A. Escobar ].
20. Satya Anasuya Paritala (Effects of Physical and Mental Activities on Heart Rate Variability), LSU-IE Department, May 2009 (Advisor: Laura Ikuma).
21. Aryan Geraili Nejadfomeshi (Modeling, Simulation and Analysis of Renewable Energy Production Systems: Application to Multi-Product Biorefineries), Department of Chemical Engineering, Proposal defense: October 9, 2013; Advisor: Jose A. Romagnoli).
22. Karthy Puniaraj (Assessing the Effects of Work Zone Configurations on Driver's Visual Attention in Freeway Using Eye Tracking Device), LSU-MIE Department, proposal defended: November 4, 2013, final defense February 24, 2014 (Advisor: Fred Aghazadeh).
23. Nithin Isaac George (MS Report: A survey of Evaluation of Physiological Based Work-Rest Formulas), LSU-MIE Department; Defended April 2, 2014, Advisor: Fred Aghazadeh).
24. Ping Puyang (Post-Treatment Assessment of Hydraulic Fracturing with Integrated Modeling of Natural Fracture Distribution), LSU-Petroleum Engineering Department, MS Thesis defended: March 25, 2014 (Advisor: Arash D. Talehgani).
25. Vijayan Arun Pisharody (Effect of Appointment Schedules on the Operational Performance of a University Medical Clinic), LSU-MIE Department, December 2014, Advisor: Fred Aghazadeh).
26. Nabila Chowdhury (A Comparative Assessment of Ergonomic Risk Factors in University Personnel Using Rula and Reba Aiming to Study the Cause and Effect Relationship), LSU-MIE Department, Thesis Defense: July 31, 2015, Advisor: Fred Aghazadeh).
27. Milad Amini (Determination of recovery time for a simple lifting task based on weight, frequency and duration of the lift), LSU-MIE Department, Proposal Defense: Monday, March 6, 2017, Final Defense July 10, 2017; Advisor: Fred Aghazadeh).
28. Olakunle Charles Amusan (The effect of rest time on bicep brachial recovery, heart rate and perceived exertion during manual lifting) LSU-MIE Department, MS Research Project; Defended Saturday, August 5, 2017. Advisor: Fred Aghazadeh.
29. Nandakumar Prabhakar (Effect of duration of rest on muscle fatigue using Electromyography during manual lifting) LSU-MIE Department, MS Thesis;



Proposal defended: Saturday, September 15, 2017. Final Defense: August 3, 2018 (Advisor: Fred Aghazadeh).

30. Brian Truman (RFID item-level tagging in a grocery store environment) LSU-MIE Department, MS Thesis; Proposal defended: Tuesday, September 18, 2018. Final Defended: xxxx (Advisor: Gerald M. Knapp).

**(E) EXTERNAL EXAMINER (INTERNATIONAL)**

1. Tan Mien Duan (Michael Tan), M. Eng Thesis (*Linear Programming Models for Supply Chain Analysis*), National University of Singapore, Industrial Engineering Department; February 22, 2002 (Advisors: Professor L. C. Tang and H. L. Ong).
2. Teng Suyan, PhD Dissertation (*Design and Analysis of Algorithms for Solving Some Stochastic Vehicle Routing and Scheduling Problems*), National University of Singapore, Industrial Engineering Department; September 22, 2003 (Advisors: Professors Ong Hoon Liong and Huang Huei Chuen).
3. Paramjeet Singh Rajpal, PhD Dissertation (*Modeling and Analysis of Reliability, Availability and Maintainability of Repairable Systems Using Certain Artificial Intelligence Techniques*), Department of Applied Mechanics, Indian Institute of Technology, New Delhi-110016; June 16, 2006 (Advisors: K. S. Shishodia and G. S. Sekhon).
4. Kalipada Maity, PhD Dissertation (*On some inventory problems via optimal theory*), Department of Mathematics, Vidyasagar University, Midnapore-721102, West Bengal, India. June 21, 2006 (Advisor: Manoranjan Maiti).
5. Liu Shubin, PhD Dissertation (*Routing and shop scheduling problems*), Department of Industrial and Systems Engineering, National University of Singapore, Singapore, April 24, 2008 (Advisor: Professor Ng Kien Ming).
6. Chandrasekhar Vishnu Chaudhuri, PhD Dissertation (*An Integrated Methodology of the Study of Supply Chain Management using Theory of Constraints*), Department of Production Engineering, Jadavpur University, Kolkata, India, December 13, 2007 (Advisor: Professors Bijan Sarkar and S. K. Mukhopadhyay).
7. Dibyendu K. Choudhury, PhD Dissertation (*Project Engineering Management for Mechanical Construction of Crude and Vacuum Distillation Units of Refinery*), Department of Mechanical Engineering, National Institute of Technology, Kurukshetra University, Kurukshetra, HR 132119, India, March 3, 2011 (Advisor: Professor S. K. Sharma; Contact: Dr. Rajendra Kumar, Controller of Examinations).
8. Tarun Kumar, PhD Dissertation (*Modeling and Analysis of Some Supply Chain Systems in Soft Computing Technologies*), Computer Science and Engineering, Banasthali Vidyapith, Banasthali, Rajasthan 304022, India, September 27, 2012 (Co-Advisors: C. B. Gupta, Professor (Dept. of Mathematics, BITS, Pilani, Rajasthan) and Professor S. R. Singh, Associate Professor (Dept. of Mathematical Science, D. N. College, Meerut, UP). POC: Dr. H. L. Mittal, Additional Registrar (Academic).
9. Monami Das Gupta, PhD Dissertation (*Application of Operational Research Techniques in Production Planning and Inventory Control*), Department of Mathematics, Jadavpur University, Kolkata, India, November 27, 2012, (Advisor: Professor Shib Shankar Saha,

Dept. of Mathematics, Bhangar Mahavidyalaya and Kripasindu Chaudhuri, Dept. of Mathematics, Jadavpur University). [POC: Atishkumar Chattopadhyay, Secretary, Faculty of Science].

10. Ravi Shankar Kumar, PhD Dissertation (*Mathematical Modeling of Inventory Control Problems in Fuzzy Random Environment*), Department of Mathematics, Indian Institute of Technology, Kharagpur 721302, India, March 4, 2013 (Advisor: Professor A Goswami). [POC: A. N. Samanta, Dean of Post-Graduate Studies and Research].
11. Soumen Bag, PhD Dissertation (*Some Inventory Models in Imprecise and/or uncertain Environment*), Department of Mathematics, Indian Institute of Technology, Kharagpur 721302, India, March 14, 2013 (Advisor: Professors Debjani Chakraborty and A. R. Roy). [POC: A. N. Samanta, Dean of Post-Graduate Studies and Research].
12. Meenu Gupta, PhD Dissertation Proposal (*Optimal Ordering Policies with Life Time, Permissible Delay in Payments and Backorder*), Department of Mathematics, Banasthali Vidyapith, Banasthali, Rajasthan 304022, India, January 28, 2012 (Advisor: Professor S. R. Singh, Reader; D. N. College, Meerut, UP. POC: Dr. H. L. Mittal, Additional Registrar (Academic)).
13. Isha Sangal, PhD Proposal (*Effect of Deteriorating items in Supply Chain Systems*), Department of Mathematics, Banasthali Vidyapith, Banasthali, Rajasthan 304022, India, June 27, 2012 (Advisor: Professor S. R. Singh, Reader; D. N. College, Meerut, UP. POC: Dr. H. L. Mittal, Additional Registrar (Academic)).
14. Pidamber K. Chaudhary, PhD Proposal (*Supply Chain Management Problems: Some Models and Methodologies*), Computer Science and Engineering, Benaras Hindu University, Benaras, UP, India, August 12, 2012 (Co-Advisors: A. K. Agrawal, Professor and Dr. P. Bharadwaj, Professor. POC: Dr. H. L. Mittal, Additional Registrar (Academic)).
15. Jitendra Kumar, PhD Thesis (A Systematic Approach for Modeling and Analysis of Supply Chain Network), Department of Mechanical Engineering, Motilal Nehru National Institute of Technology, Allahabad-211004, U.P. [India], September 07, 2014 [Advisor: Prof. Nirjhar Roy, POC: Dr. Sarvesh K Tiwari, Deputy Registrar (Academic)].
16. Umesh Chandra Moharana, PhD Dissertation (Managing Inventory for Non- repairable Dependent Spare Parts), Department of Industrial & Systems Engineering, Indian Institute of Technology, Kharagpur-721302, WB. [India], September 8, 2014 [Advisor: Professor S.P. Sarmah, POC: Dr. A.N. Samanta, Dean of Postgraduate Studies & Research].
17. A.K.M. Solayman Hoque, PhD Dissertation (Sickness of Industries of Bangladesh: Analysis and Prediction), Department of Mechanical Engineering, Chittagong University of Engineering & Technology, Chittagong 4349, Bangladesh, Final Defense: December 29, 2015 [Advisor: Professors Shyamal K. Biswas and Md. Mahbubul Alam, POC: Dr. Shyamal Biswas, Ex-Vice-Chancellor of CUET].
18. Arunava Majumder, PhD Dissertation (Some Inventory Models For Supply Chain Management), Department of Mathematics and Oceanography and Computational Sciences, Vidyasagar University, Medinipur 721102, Paschim Medinipur, West Bengal, INDIA, Evaluated: November 6, 2016 [Advisor: Professor Biswajit Sarkar, POC: Dr. Dr. J. K. Nandi, Registrar].

**(F) UNDERGRADUATE STUDENTS SUPERVISION:**

**(a) Senior Projects:**

1. Dion A. Faucheux and Lee A. Lavespere (Improving Material Handling Bottleneck Problem in Daniell Battery Manufacturing Company, Baton Rouge, LA; Fall 1991).
2. Ricky D. Allen and Thomas E. Stirling (Facilities Layout Improvement, Fall 1992).
3. Khanh Mai, Mark Cosnahan, and Trieu Trinh (Production Schedule and Resource Requirement Planning in Electro-Medical Equipment Company, Baton Rouge, LA; Fall 2000).
4. Karelys D. Bastidas, Ilke Mollaoglu, and Sandra Paola Flores Corletto (Assessment of the LSU Campus Transit Transportation Systems, Baton Rouge, LA; May 8, 2002; POC: Eric T. Reid, Office of Parking, Traffic and Transportation, LSU).
5. Raymundo Castillo, Joy Smith and Claudio Gamio (Staff Planning and Scheduling at the Eatel Customer Service Call Center, Baton Rouge, LA; December, 8, 2002; POC: Lloyd Daniel, EATEL, 913 S. Burnside Avenue, Gonzales, LA 70737-4258).
6. Ana Lucia Rivera, Ernesto Allwood, and Trinh Thai (Scheduling of the EATEL Customer Support Representatives, May 15, 2003; POC: Charles Babin and Deborah Lambert, EATEL, 913 S. Burnside Avenue, Gonzales, LA 70737-4258).
7. Hunter Marks, Alfred Martin, and Deniz Mungan (Stock Control at School Time Uniforms, LLC, Madeville, LA Store #5), May 12, 2005; POC: Charles Babin and Deborah Lambert. .
8. Armeen Rahman, Zowril Razik, and Allan Williams (Inventory Control and Warehouse Layout), Window World, 8405 Airline Highway, Baton Rouge, LA 70815, May 12, 2007; POC: Jim Roland.
9. Jackoby Bertot, Roland LeBlanc, Laura Player and Phillip Singleton (Analysis of the Process of the Allocation of Mail Handling Equipment at USPS, Port Allen, LA), December 12, 2008. POC: Scott Sulick and Catherine Allen.
10. Gretel Barany, Diego Moreno, and Sina Zarei (Packaging System Renovation at Electro-Mechanical Equipment (EME) Company, Inc.: Introduction of Flow Wrapper), 12015 Industriplex Boulevard, Baton Rouge, LA 708009, May 2009, POC: Leonard Carmouche (225 751-0159).
11. Andrew Mathews, Casey Robelot, and Ryan Usry, "Overall Workflow Analysis of Earl K. Long Hospital," May 3, 2012. EKL Doctor: Dr. Dan Godbee, MD and LSU Supervisor: Laura Ikuma, (Course Coordinator: Bhaba Sarker, Advisor: Laura Ikuma and Dr. Dan Godbee).
12. Vincent Bradbury and Geoffrey Patton, "Reduction of walk-out times and length of stay at the EKL Triage System" May 3, 2012. EKL Doctor: Dr. Laura Richey, MD and LSU Supervisor: T. Warren Liao, (Course Coordinator: Bhaba Sarker, Advisor: T. Warren Liao, Dr. Laura Phillips).

13. Jordan Girdley, Anthony Martel and Matthew Martin, "Improving Visual Control and Communications at EKL Hospital," May 3, 2012. EKL Doctor: Dr. William Freeman, MD and LSU Supervisor: Gerry Knapp, (Course Coordinator: Bhaba Sarker, Advisor: Gerry Knapp, Dr. Bill Freeman).
14. La'Bradford Fusilier, Shreya Mehta and Barrett Schrock, "Design of Kits for Orthopedic Procedure and Discharge Procedure Improvement at Earl K. Long Hospital," May 3, 2012. EKL Doctor: Dr. John Nelson Perret, MD and LSU Supervisor: Fred Aghazadeh, (Course Coordinator: Bhaba Sarker, Advisor: Fred Aghazadeh, Dr. Nelson Perret).
15. Martha Cecilia Bonilla, Matthew Louis Brown, and David Stephen Burford, "Work Sampling and Workflow Analysis to Evaluate the Performance (value stream mapping) of Emergency Department at Earl K. Long Hospital," December 3, 2012. EKL Doctor: Dr. Dan Godbee, MD and LSU Supervisor: Bhaba R. Sarker, (Course Coordinator: Dr. Fred Aghazadeh, Advisor: Bhaba Sarker and Dr. Dan Godbee).
16. Jacob Badeaux and Emily Vernando, OLOL Regional Medical Center Admission process Improvement (Work Sampling and Flow Analysis) of Our Lady of the Lake (OLOL) RMC," Spring 2013. LSU Supervisor: Bhaba R. Sarker, and OLOL Advisor: Dr. Jame Rhorer, Director of Emergency Department, POC: (Course Coordinator: Dr. Fred Aghazadeh and Ms. Julie Laiche (OLOL).
17. Joselin Heymann, Ana Paola Justiniano and Talor Wilson, "Redesigning SKU Layout Efficiency, Accuracy and Productivity at BP Castrol Warehouse, Inc. -Phase I," 1981 South Westport Drive, Port Allen, LA 70767; Fall 2013, *LSU Faculty Advisor*: Bhaba R. Sarker, and *BP Contract*: Kirk Wood, Director of Operations, POC: Course Coordinator: Dr. Laura Ikuma (LSU).
18. Joselin Heymann, Ana Paola Justiniano and Talor Wilson, "Redesigning SKU Layout Efficiency, Accuracy and Productivity at BP Castrol Warehouse, Inc. Phase-II," 1981 South Westport Drive, Port Allen, LA 70767; Spring 2014. *LSU Faculty Advisor*: Bhaba R. Sarker, and *BP Contract*: Kirk Wood, Director of Operations), POC: Course Coordinator: Dr. Laura Ikuma (LSU).
19. Daniel Velásquez Baldizón, Ellis Lindholm, "Design and Implementation of a First In First Out System at BP Castrol Warehouse-Phase I," BP Castrol Warehouse, 1981 South Westport Drive, Port Allen, LA 70767; Fall 2014. *LSU Faculty Advisor*: Bhaba R. Sarker, and *BPCContract*: Jeffrey Moore and Kirk Braud, POC: Course Coordinator: Dr. Fred Aghazadeh (LSU).
20. Todd J. Baker, Eduardo X. Nunez and Nathan J. Witsken (Team #3, ME-4202) "Bring the Turso Simulator for Ballistics Testing to marker," Fall 2014. *LSU Faculty Advisor*: Bhaba R. Sarker and Alumni Advisor: Jocelin Heyman, and *Company Contract*: POC: Course Coordinator: Dimitris Nikitopoulos (LSU).
21. Daniel Velásquez Baldizón, Ellis Lindholm, "BP Castrol Warehousing Labeling Improvement-Phase II," BP Castrol Warehouse, 1981 South Westport Drive, Port Allen, LA 70767; Spring 2015. *LSU Faculty Advisor*: Bhaba R. Sarker, and *BP Contract*: Jeffrey Moore and Kirk Braud, POC: Course Coordinator: Dr. Fred Aghazadeh (LSU).

22. Dana Scalf, Michael Toler and Grant Smith, "Storage Control—Part 1," Orion Company, Baton Rouge; Fall 2015. *LSU Faculty Advisor*: Bhaba R. Sarker, and *BP Contract*: Jeffrey Moore and Kirk Braud, POC: Course Coordinator: Dr. Fred Aghazadeh (LSU).
23. Dana Scalf, Michael Toler and Grant Smith, "Storage Control—Part 2," Orion Company, Baton Rouge; Spring 2016. *LSU Faculty Advisor*: Bhaba R. Sarker, and *BP Contract*: Jeffrey Moore and Kirk Braud, POC: Course Coordinator: Dr. Fred Aghazadeh (LSU).
24. Kayla Compton, Brandon Power, and Cady Rhode, "Flanges cellular Design," Fiberbond Company, Baton Rouge; Fall 2016. *LSU Faculty Advisor*: Bhaba R. Sarker, and *BP Contract*: Greg Treadway, POC: Course Coordinator: Dr. Laura Ikuma (LSU).
25. Scott Mather, Brenan Wendt, Steven Hayden, "Product Distribution Analysis and Cost Minimization," BP Lubricants, Port Allen; Fall 2016. *LSU Faculty Advisor*: Bhaba R. Sarker, and *BP Contract*: Kirk Braud, POC: Course Coordinator: Dr. Laura Ikuma (LSU).
26. Kanza Siddiqui and Justin Fernandez, "Manufacturing Process Design for Instant Air in Automobile-Phase I," R.K. Baker Group, Baton Rouge; Fall 2016. *LSU Faculty Advisor*: Bhaba R. Sarker, and *BP Contract*: Ron Baker, POC: Course Coordinator: Dr. Laura Ikuma (LSU).
27. George Emiko, Justin Fernandez and Kanza Siddiqui, "Manufacturing Process Design for Instant Air in Automobile – Phase II," R.K. Baker Group, Baton Rouge; Spring 2017. *LSU Faculty Advisor*: Bhaba R. Sarker and Harris Wong, and *BP Contract*: Ron Baker, POC: Course Coordinator: Dr. Laura Ikuma (LSU).
28. Kayla Compton, Brandon Power, and Cady Rhode, "Designing a work cell for Fiberbond RTM Process – Phase II," Fiberbond Company, Baton Rouge; Spring 2017. *LSU Faculty Advisor*: Bhaba R. Sarker, and *BP Contract*: Kevin Schmit, POC: Course Coordinator: Dr. Laura Ikuma (LSU).
29. Steven Hayden, Scott Mather and Brenan Wendt, "Distribution Analysis - Phase I," Spring 2017. *LSU Faculty Advisor*: Bhaba R. Sarker, and *BP Lubricants Contract*: Kirk Braud, POC: Course Coordinator: Dr. Laura Ikuma (LSU).
30. Christian Armstrong, Emil Cervantes, and Kristen Thibodeaux, "Determining the Demand and minimizing the production process cost of the Micro-Mixer Reactor – Phase I," Baton Rouge; Fall 2017. *LSU Faculty Advisor*: Bhaba R. Sarker, and Sponsor: Dimitris Nikitopoulos, POC: Course Coordinator: Dr. Gerry Knap (LSU).
31. Leona Brown, Javier Camacho and Matt Smith, "Process Improvement at Orion Instruments – Phase I," Baton Rouge; Fall 2017; *LSU Faculty Advisor*: Bhaba R. Sarker, and Sponsor: Scott Huber (operations Manager) and Jahany Dugas (Mfg Engineer), POC: Course Coordinator: Dr. Gerry Knap (LSU).
32. Linda Shea, Taylor Hayes and Jishnu Kiddle, "Improving inventory management and bicycle repair shop layout for better workflow-Phase I," at Front Yard Bikes, 2560 Government Street, Baton Rouge, LA 70806; Manager: Dustin Lafont (Ph.: 225 636-5776/ 985 637-2907); Fall 2018.
33. Ethan Gunter, Gerald Landry and Christine Morris, "Redesigning the material laydown yard and reducing the time to retrieve the pipe fitting for pick-tickets-Phase I," at McDermott,

30103 Sunland Drive, Walker, LA 70785; Manager: Jeffrey Campbell, Phone: 225 791-3284; 316 644 5115(C); Fall 2018.

**(b) LSU Undergraduate Industrial Intern (Independent) Projects:**

1. Ruff, Meredith, IE-3699: Engineering Practice: “Procurement and Contract policy in Oil and Gas Industry, Freeport McMoRan Oil & Gas Houston, TX; May 26-August 12, 2015).
2. Livingston, Kristen, IE-3699: Engineering Practice: Refurbishing the Warehouse for Seasonal Demands, Associated Grocers’ Inc., Baton Rouge, LA, Fall 2016- Spring 2017
3. Bruns, Clarissa, Honors-4000: Effectiveness of Measuring Pedestrian and Bicycle Traffic Volumes using Eco-Counter Passive Infrared Counting Technology, BS Honors Project (HONS-4000), CE Department, April 26, 2018 [Advisor: Chester W. Wolmot].
4. Samuel D Snow (Effect of duration of rest on muscle fatigue using Electromyography during manual lifting) LSU-Civil Engineering Department, BS Honors Research Report; Defended Monday, April 23, 2018. Advisor: Chester W. Wilmot.
5. Greear, Adley, IE-3699: Engineering Practice: “Manufacturing and Loss Elimination in Diaper Making Industry,” Procter and Gamble, 14484 MO-177, Jackson, MO 63755, Cape Girardeau, MO; Supervisor: Andres Correa (Line Leader), [correa.af@pg.com](mailto:correa.af@pg.com), (954) 303-6755; May 21-August 10, 2018.
6. Gunter, Ethan Pike, IE-3699: Engineering Practice: “Industrial Engineering Intern in the Food Processing Industry, Blue Runner Foods, Inc. 726 S. Burnside Avenue, Gonzales, LA 70737; Supervisor: Luis Jr., (225) 397-1964; May 14 - July 31 2018.

**(c) Chancellor Future Leaders in Research Program (supervision):**

1. Darren Michael Harkness: A Study on Software Usage and Capability Matrix (2000-2003).
2. Franklin Worrell: Supply Chain Software Capability Analysis (2001-2004).

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S10: 1-Wd-Resum-1 (Friday, January 11, 2019)

## APPENDIX I PUBLICATION PROFILE OF RESEARCH

### (A) DISTRIBUTION OF RESEARCH PUBLICATIONS:

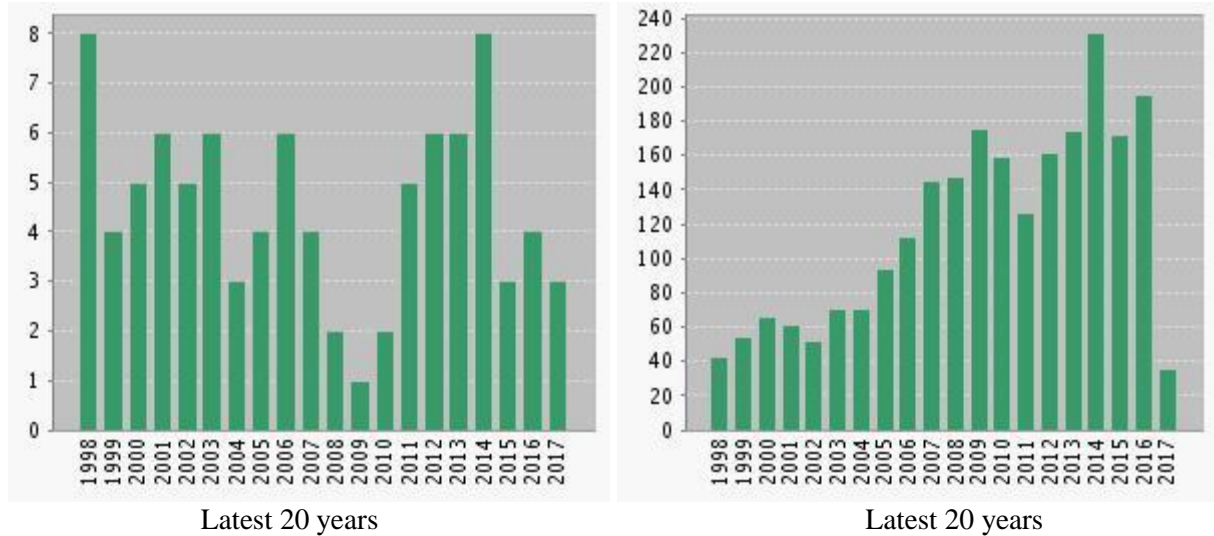
**Table 1. Publications in Different areas**

Major Areas of Research*	Book Chapters	Journal Articles	Proceedings Papers	Conference Presentations
<i>Mass Production and Assembly Systems</i>		4	3	2
<i>Production Systems</i>	1	16	5	4
<i>Material Flow and Job Routing</i>	1	9	7	10
<i>Machine Location Problems</i>	1	9	6	6
<i>Cellular Manufacturing Systems</i>		16	7	8
<i>Material Handling Systems</i>		6	2	5
<i>Traditional Inventory Systems</i>		10	4	12
<i>JIT Production Systems</i>		9	5	5
<i>Supply Chain Logistics and Distribution</i>	2	53	30	10
<i>Simulation</i>		4	6	4
<i>Applications of Operations Research</i>	1	17	9	8
<b>TOTAL</b>	<b>6</b>	<b>154</b>	<b>91</b>	<b>84</b>

\* Many of these articles fall in multiple areas as well.

### (B) ISI WEB OF KNOWLEDGE CITATION RESULTS (AS OF AUGUST 11, 2017):

Published Items in Each Year Citations in Each Year



### ISI CITATIONS INDICES (APRIL 30, 2018)

Description	Web of science	Google Scholar	
Number of Articles in ISI database	138	All	Since 2013
Number of times cited	2885	7110	2633
Number of Citing Articles	1,932	-	-
Average Citations per item	21.21	-	-
Hirsch (H)-Index	30	48	27
i-10 Index	-	106	70

## APPENDIX II

### MANUSCRIPTS UNDER REVIEW BY REFEREED JOURNALS

1. Das Roy, M. and Sarker, B. R. “An optimal vendor-buyer cooperative strategy with nonlinear penalty cost for early and late delivery under generalized lead time distribution,” *Operational Research: An International Journal*. (Submitted September 9, 2017; 1<sup>st</sup> Revision April 9, 2018; 2<sup>nd</sup> Revision September 10, 2018, *APM-D-17-02215R2*, Corr: BRS) (Assoc. Editor: Mohammed Y. Jaber).
2. Hossain, M.S.J. and Sarker, B.R., “Optimal configuration of multistage inspection and rework stations in a flexible flowline,” *Naval Research Logistics* (MS Paper-2: Submitted July 28, 2018; *NRL-18-0139*; Correspondence: MSJH).
3. Hossain, M.S.J. and Sarker, B.R., “Assignment of rework and inspection stations in a multistage flowline,” *International Journal of Production Research* (MS Paper-3: Submitted February 22, 2018; *TPRS-2018-IJPR-0368*; Correspondence: BRS).
4. Hossain, M.S.J. and Sarker, B.R., “Rework policy and cutting length optimization of steel pipes in continuous pipe manufacturing system,” *European Journal of Operational Research* (PhD Paper-2: Submitted February 22, 2018; *EJOR-S-18-00658*; Correspondence: BRS).
5. Hossain, M.S.J. and Sarker, B. R., “Optimal magazine reload timing and stocking policy for cutting tools,” *Engineering Optimization* (PhD Paper-3: Submitted July 28, 2018; *GENO-2018-0617*; Correspondence: MSJH).
6. Hossain, M.S.J. and Sarker, B.R., “Server and space optimization for an inspection-rework queuing network in a discrete product manufacturing system,” *Computers & Operations Research* (PhD Working Paper-4: Submitted April 30, 2018; *COR-S-18-00571*; Correspondence: BRS).
7. Hossain, M.S.J. and Sarker, B.R., “Performance measures of engineering production systems: a new look of overall effectiveness measures,” *International Journal of Production Research* (PhD Paper-5: Submitted February 22, 2018; *TPRS-2018-IJPR-0369*; Correspondence: BRS).
8. Hossain, M.S.J, and Sarker, B. R. “Server and space optimization for an inspection-rework queuing network in a discrete product manufacturing system,” *Computers & Operations Research*, Submitted April 30, 2018 (*COR-D-18-00441*), Corr: BRS
9. Hou, K.L., Lin, C.-L. and Sarker, B.R. “Optimal replenishment policy for non-instantaneous deteriorating items with stochastic demand under advance sales discount and available capacity, Paper-2, *International Journal of Production Economics*, Submitted February 8, 2018. (*IJPE-S-18-00291*); Corr: KLH
10. Li, C. R., Sarker, B.R., Zhang, Q. and Cheng, J. D., “Operations Planning for Vulnerable Parts with Jointly Distributed Lifespan,” Paper-5: Submitted to *International Journal of Production Research*, Submitted on July 16, 2017 (*TPRS-2017-IJPR-1413*); Corr: BRS
11. Li, C. R, Cui, G., Xie, F. and Sarker, B. R. “Tool Shape Detection of Gear Ring based on Rapid Graphic Search Algorithm,” Paper-S5: *Machine Vision and Applications*, Submitted on December 5, 2017, *MVAP-S-17-00646*, Corr. BRS.
12. Sarker, B. R., Wu, B. and Paudel, K. P. “Optimal Location for Renewable Natural Gas Production and Distribution Facilities: A Supply Chain Analysis,” PhD Paper-3: *Asia Pacific Journal of Operational Research* (Submitted February 21, 2018; *L180221 (APJOR-S-18-00060)* Corr. Author: BRS).



13. Sarker, B. R., Wu, B. and Paudel, K. P., "Modeling and optimization of a supply chain of renewable biomass and biogas: processing plant location"," PhD Paper-4: *Applied Energy* (Submitted March 14, 2018; 1<sup>st</sup> revision June 4, 2018; 2<sup>nd</sup> revision September 24, 2018 (APEN-D-18-02497 R2); *Corr. Author: BRS*).
14. Shao, X., Chen, Z. and Sarker, B. R. "Integrated maintenance and production decision for K-out-of-n system equipment with attenuation of product qualified rate," *International Journal of Quality and Reliability Management*, Submitted July 24, 2017, *Corr. ZXC*).
15. Taleizadeh, A.A., Zarei, H. R. and Sarker, B.R., "An optimal control of a stochastic inventory system under whole sale price changes," Paper-1: *International Journal of Industrial Engineering: Theory, Applications and Practice (IJIETAP)*, (submitted July 4, 2016: *Corr. Author: BRS*). Revised November 27, 2017 (Editor: Gyu Lee)
16. Taleizadeh, A.A., Basban, N. A. and Sarker, B.R., "cooperation and coordination in a two-echelon supply chain considering quality, return policy and carbon reduction," Paper-5: *OMEGA*, (Submitted August 30, 2018, Resubmitted October 16, 2018; *OMEGA-2018-1104*; *Corr: BRS*).
17. Zhang, R., Dong, Y. and Sarker B. R. "The forming mechanism and strategy of returns reverse logistics in E-Commerce transactions in China," Paper-1: *Business Horizons*, Submitted July 10, 2017, *BH#17043 Corr. RZ*).
18. Hosseini-Motlag, S. H., Nouri, M., Johari, M. and Sarker, B. R., "Coordinating economic incentives, customer service and pricing decisions in a competitive closed-loop supply chain," Paper-3: Submitted on April 5, 2018 to *International Journal of Production Economics*; ((IJPE-S-18-00678/IJPE-D-18-00512), *Corr. BRS*).
19. Lin, T.-Y. and Sarker, B. R. "Optimal setup cost reduction and lot sizing with imperfect processes and quantity discounts," Paper-2, Submitted to *Journal of Industrial and Management Optimization*, April 19, 2018 (180419-Tien); *Corr. BRS*.
20. Lin, T.-Y. and Sarker B. R. " An impact on optimal setup cost reduction and lot size under imperfect production processes and quantity discounts," Submitted to *Journal of Industrial and Management Optimization*, July 26, 2018 (ID: 180726-Tien), *Corr: TYN*.
21. Orengo, S., Hossain, M.S.J, and Sarker, B. R. "Optimal Vendor-Buyer Cooperative Inventory Policy for Price Sensitive Demand and Order Size Sensitive Transportation Cost, *International Journal of Industrial Engineering and Operations Management*, submitted on October 29, 2018; (IJIEOM-2018-0019), *Corr: BRS*
22. Shao, X., Chen, Z. and Sarker, B.R. "An optimal (Q, N) production and maintenance plan for a two-stage deteriorating JIT production system with random breakdowns," *International Journal of Production Economics*, submitted December 4, 2018 (IJPE-S-18-02608), *Corr. BRS*.
23. Lai, X.F., Chen, Z., Sarker, B. R. and Giri, B. C. "Optimal production lot sizing for an imperfect manufacturing system with machine breakdown and emergency maintenance policy," Paper-18, Submitted to *Kybernetes: The International Journal of Cybernetics, Systems and Management Sciences*, December 22, 2018 (K-12-2018-0687), *Corr. ZC*.
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