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CURRICULUM VITAE

JATINDER N. D. GUPTA

EDUCATION

- **PhD** in Industrial Engineering with specialization in Operations Management and Management Science and minors in Systems Analysis and Design and Economics, **TEXAS TECH UNIVERSITY**

Dissertation: *Economic Aspects of Scheduling Theory*

- **M Tech** in Industrial Engineering and Operations Research, **INDIAN INSTITUTE OF TECHNOLOGY**

Thesis: *Combinatorial Algorithms for Scheduling Problems*

- **BE** in Mechanical Engineering, **UNIVERSITY OF DELHI**

Thesis: *The Tachometer Factory*

- **OTHERS:**

Participated in the Global Supply Chain Management, Globalization Seminar at University of Memphis, 2005, *Academic Assessment Workshop* in 2004 and the *Business Accreditation Workshop* on new standards offered by AACSB in 2003, *SAP Basics* course offered by SAP, 2000, SAP curriculum courses such as: *Business Intelligence*, *Supply Chain Management*, and *SAP Configuration* offered by SAP University Alliance Program, *Global Information Technology*, Faculty Development in International Business Workshop at the University of Memphis, 2000, Supply Chain and e-Commerce Workshop at the Northwestern University, 2000, and AACSB *Advanced Information Systems* Faculty Development Workshop at Indiana University, 1986. Certified *Fellow in Production and Inventory Management* (CFPIM). *Certified Cost Analyst* by the Institute of Cost Analysts. Participated in the *Executive Development Program* at the US Postal Service.. Participated in *Teaching Manufacturing Strategy* workshops, 1992 and 1993 at University of North Carolina Chapel Hill and Ohio State University and other workshops on *teaching effectiveness and communications*. Audited several courses in Organizational Behavior, Information Systems, and Business Logistics.

PUBLICATIONS AND PRESENTATIONS

Have published numerous papers in refereed journals and proceedings of national and international scope and reputation in the fields of Operations and Supply Chain Management, Information Systems, and Decision Sciences. Wrote columns and series of articles in newspapers and newsletters of various professional societies, coauthored a textbook, several chapters, and

edited several books and special issues. These publications include research into developing techniques for solving problems, designing and implementing systems, investigating several phenomena and issues related to teaching and practice of various disciplines. The journals in which I have published include: *Production and Operations Management*, *Journal of Scheduling*, *Operations Research*, *Mathematics of Operations Research*, *INFORMS Journal of Computing*, *Operations Research Letters*, *IEEE Transactions*, *Annals of Operations Research*, *OMEGA*, *Journal of Operational Research Society*, *European Journal of Operational Research*, *Computers and Operations Research*, *International Journal of Production Research*, *IIE Transactions*, *Production Planning and Control*, *Journal of Logistics Information Management*, *Journal of Management Information Systems*, *Decision Sciences*, *Electronic Commerce Research*, *Supply Chain Management*, *International Journal of Operations and Production Management*, *Computer and Industrial Engineering*, *Defense Acquisition Review*, *International Journal of Production Economics*, and *International Journal of Information Management*. My papers are often cited in the literature in Operations and Supply Chain Management, Decision Sciences, and Information Systems areas. In the listing below, only the articles published in refereed journals are included. The articles published in proceedings and presentations (including keynotes and invited lectures) can be provided on request.

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- Ding, J.-Y., Song, S., Gupta, J. N. D., Wang, C., Zhang, R., Wu, C. (2016). New block properties for flowshop scheduling with blocking and their application in an iterated greedy algorithm. *International Journal of Production Research*, 54(16), 4759-4772.
- Gupta, J. N. D., Kalaimannan, E., Yoo, S.-M. (2016). A heuristic for maximizing investigation effectiveness of digital forensic cases involving multiple investigators. *Computers & Operations Research*, 69, 1-9.
- Neufeld, J. S., Gupta, J. N. D., Buscher, U. (2016). A comprehensive review of flowshop group scheduling literature. *Computers & Operations Research*, 70, 56-74.

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- Li, X., Chen, L., Xu, H., Gupta, J. N. D. (2015). Trajectory Scheduling Methods for minimizing total tardiness in a flowshop. *Operations Research Perspectives*, 2, 13-23.
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- Gupta, J. N. D., and Sharma, S. K., (2001) Cybershopping and Privacy in *Managing Business with Electronic Commerce: Issues and Trends*, Gangopadhyay, A. (ed). Idea Group Publishing, Harrisburg, PA, 235-249.
- Sharma, S. K., and Gupta, J. N. D., (2001) E-commerce opportunities and challenges in *E-commerce Diffusion: Strategies and Challenges*, Singh M., and T. Teo (eds). Heidelberg Press, Heidelberg, Australia, 21-42.
- Ravichandran, R., and Gupta, J. N. D., (1993) Information Systems Education Issues: The US and European Perspectives in *Global Information Technology Education: Issues and Trends*, Khosrowpour, M. and K. Loch (eds). Idea Group Publishing, Harrisburg, PA, 83-121.
- Gupta, J. N. D., (1986) Quantitative Techniques for Management Accounting, Chapter 16 in *Management Accounting* (by Thomas Lynch), Commerce Clearinghouse.

Books:

- Jain, R. K., Metri, B. A., Gupta, J. N. D.,(eds) (2013) Operations Excellence: A Key for Performance Excellence, Excel Books, India.
- Badri, T. N., and Gupta, J. N. D., (eds) (2012) Enhancing Competitiveness using Decision Sciences, Macmillan Publisher.
- Metri, B. A., Gupta, J. N. D., and Sahay, B. S., (eds), (2011) Managing Global Services, Excel Books, New Delhi, India.
- Gupta, J. N. D., Sharma, S. K., and Rashid, M. A., (eds), (2009) Handbook of Research on Enterprise Systems, Information Science Reference, USA.
- Gupta, J. N. D., and Sharma, S. K., (eds), (2009) Handbook of Research on Information Security and Assurance, Information Science Reference, USA.
- Sahay, B. S., Gupta, J. N. D., Batra, S., Kumar, S., and Kumar, S., (2007) Decision Sciences and Technology for Globalization, Allied Publishers, New Delhi, India.
- Gupta, J. N. D., Forgionne, G., and Mora, M., (eds) (2006) Intelligent Decision Making Support System, Springer.
- Wickramasinghe, N., Gupta, J. N. D., and Sharma, S. K., (eds) (2005) Creating Knowledge Based Healthcare Organizations, Idea Group Publishing, Harrisburg, PA.
- Gupta, J. N. D., and Sharma, S. K., (eds) (2004) Intelligent Enterprises for the 21st Century, Idea Group Publishing, Harrisburg, PA.
- Gupta, J. N. D., and Sharma, S. K., (eds) (2004) Creating Knowledge Based Organizations, Idea Group Publishing, Harrisburg, PA.
- Sharma, S. K., and Gupta, J. N. D., (eds) (2003) Managing E- Businesses in the 21st Century, Heidelberg Press, Heidelberg, Australia.
- Mora, M., Forgionne, G., and Gupta, J. N. D., (eds) (2003) Decision Making Support Systems: Achievements and Challenges for the New Decade, Idea Group Publishing, Harrisburg, PA.
- Smith, K. A., and Gupta, J. N. D., (eds) (2002) Neural Network for Business Applications, Idea Group Publishing, Harrisburg, PA.
- Gupta, J. N. D., (Co-Editor with others) (2000) Operations Management for Global Economy, Phoenix Publishing House, Pvt. Ltd., Delhi, India.
- Ignizio, J. P., and Gupta, J. N. D., (1975) Operations Research in Decision Making, Crane Russak & Co., Inc., New York.

Special Issues of Journals:

- Gupta, J. N. D., Allahverdi, A., and Ruiz-Garcia, R., (2008) Surveys in Operations Research, Special Issue of International Journal of Operations Research, Vol. 5, No. 1.
- Gupta, J. N. D., Ruiz-Garcia, R., Fowler, J., and Mason, S., (2006) Semiconductor Wafer Production, Special Issue of Production Planning and Control, Vol. 17, No. 7.
- Gupta, J. N. D., Forgionne, G., Garrido, L., and Mora, M., (eds) (2005) Design, Building and Evaluation of Intelligent Decision Making Support Systems: Special Issue of Journal of Decision Systems, Vol. 14, No. 3.
- Gupta, J. N. D., and Stafford, T. F., (eds) (2006) Flowshop Scheduling Research, Special Issue of European Journal of Operational Research, Vol. 169, No. 3.
- Gupta, J. N. D., and Sharma, S. K., (eds) (2004) Organizational Strategy Formulation and Flexibility, Special Issue of Global Journal of Flexible Systems Management, Vol. 5, Nos. 2 & 3.
- Gupta, J. N. D., Quaddus, M., and Galliers, R., (eds) (2004) Strategic Information Systems in Post-Net Era, Special Issue of *Strategic Information Systems*, Vol. 13, No. 2.
- Gupta, J. N. D., (ed) (2004) Scheduling Theory and Applications, Special Issue of Chinese Journal of Industrial Engineers, Vol. 21, No. 3.
- Gupta, J. N. D., and Sharma, S. K., (eds) (2003) Social and Economic Influences of E-Commerce Adoption, Special Issue of Journal of Global Information Technology Management, Vol. 6, No. 3.
- Forgionne, G., Gupta, J. N. D., and Mora, M., (eds) (2002) Advanced Information Technology for DMSS, Special Issue of Journal of Decision Systems, Vol. 11, No. 2.
- Mora, M., Forgionne, G., and Gupta, J. N. D., (eds) (2002) Decision Making Support Systems, Special Issue of Information Resources Management Journal, Vol. 15, No. 4.
- Gupta, J. N. D., (ed) (2002) Scheduling Theory and Applications, Special Issue of Production Planning and Control, Vol. 13, No. 2.
- Gupta, J. N. D., and Smith, K. A., (eds) (2000) Neural Network for Business Applications, Special Issue of Computers and Operations Research, Vol. 27, Nos. 11-12.
- Gupta, J. N. D., and Potts, C. N., (eds) (1993) Machine Scheduling Problems: Special Issue of European Journal of Operational Research, North-Holland, Amsterdam.
- Gupta, J. N. D., (ed.) (1977) Operations Research for Postal Applications, Special Issue of *Computers and Operations Research*, Pergamon Press, New York.

Keynote Speeches, Proceedings, Presentations and Other Publications:

Have been an invited Keynote speaker on various topics in several countries and have presented papers and published in proceedings. These are not listed here to save space. The articles published in proceedings and presentations (including keynotes and invited lectures) can be provided on request.

VISITING APPOINTMENTS

- Distinguished Visiting Professor, Department of Industrial Engineering, Peking University, Beijing, China, October 2013.
- Distinguished Visiting Professor, Faculty of Automation, Tsinghua University, Beijing, China, October 2011, September 2012, December 2012, October 2013.
- Distinguished Visiting Professor, Faculty of Business and Economics, University of Bielefeld, Germany, October 2012, July 2013.
- Distinguished Visiting Professor, Faculty of Information and Computer Science, China Southeastern University, Nanjing, China, September 2012, December 2012.
- Distinguished Visiting Professor, Faculty of Business and Economics, Technical University of Dresden, Germany, May 2011, July 2012, and July 2013.
- Distinguished Visiting Professor, School of Business, Renmin University, Beijing, China, May 2010, March 2011, May 2012.
- Distinguished Visiting Professor, Faculty of Economics, University of Porto, Porto, Portugal, March 2009, and May 2009.
- Distinguished Visiting Professor, Department of Information Management, National Taiwan University of Science and Technology, Taipei, Taiwan, December 2008.
- Distinguished Visiting Professor, Department of Information Management, National Taiwan University, Taipei, Taiwan, March 2008.
- Distinguished Visiting Professor, Department of Management Studies, Indian Institute of Science, Bangalore, India, January 2007.
- Visiting Professor, Tsinghua University, Beijing, China, June 2006.
- Visiting Professor, Zhengzhou University, Zhengzhou, Henan, China, June 2006.
- Visiting Professor, University of Valencia, Valencia, January 2006.
- Visiting Professor, Department of Industrial Management, University of Seville, Seville, Spain, May, 2001, March 2002, and October 2005.
- Distinguished Visiting Professor, Center for Information Technology, Federal University of Santa Maria, Brazil, August 1999 and August 2001.

- Visiting Professor, Department of Production Management, Faculty of Economics and Business Administration, University of Duisburg, Germany, July 2001.
- Distinguished Visiting Professor, Department of Computer Science, Ming Chuan University, Taipei, Taiwan, April- May 2001.
- Visiting Professor, School of Industrial Engineering and Information Systems, University of Tours, France, January 1999 and December 1999.
- Visiting Professor, University of Technology at Compiègne, France, September 1999.
- Distinguished Visiting Professor, Faculty of Electrical Engineering and Computer Science, University of Campinas, Brazil, August 1998.
- Visiting Professor, School of Information Technology, Monash University, Clayton, Australia, July-August 1998.
- Visiting Professor, School of Information Technology, Bond University, Gold Coast, Australia, August 1997.
- Visiting Professor, University of Michigan, Ann Arbor, Michigan, January 1997-May 1997.
- Visiting Municipal Chair of Information Technology and Production Management, University of Lyon, France, May - June 1993.
- Visiting Research Scholar, University of Southampton, Southampton, England (UK), July - August 1991; December 1992; March 1992, and May-June 1992.
- Visiting Professor, University of Twente, Enschede, Netherlands. (August 1990 - January 1991).
- Visiting appointments and invited lectures at several institutions in USA, Canada, various European countries, Australia, Brazil, China, Hong Kong, India, Japan, Korea, Mexico, New Zealand, Saudi Arabia, South Africa, and Taiwan. These appointments were generally of short durations and resulted in academic and research collaborations.
- Professorial Lecturer, George Washington University and University of Maryland (August 1974 - April 1984; part-time and intermittent).
- Associate Professor of Business Administration, Alabama A&M University, Normal, Alabama (January 1971-August 1971; part-time).

GRANTS, CONTRACTS, AND FUND RAISING

- Received funding (as Co-PI) funding from NSF for the Scholarship for Service program in Cyber Security Studies (approx. \$5 million), 2014-2019.
- Received a research grant from Naval Postgraduate School to investigate spare-part policies to minimize wait time in supply chains (\$120,000), 2010-2012.

- Received a contract from SAIC for developing methodologies ofr Dashboard Designs.
- Received SAP faculty training and curriculum development grant (some considered as gift in UAH accounts) in support of NASA’s UNITeS and EAST programs (\$850,000) from SAIC, 2009-2017.
- Received a research grant from Naval Postgraduate School to investigate the incentives in Performance-Based Logistics (\$52,000), 2009-2010.
- Received SAP support from SAIC (\$94,000), 2009.
- Received a grant from the SAP University Alliance Program for software grant worth about \$3 million.
- Received SAP support from IBM (\$60,000).
- Received joint research grant from Spain to collaboratively work with faculty members from University of Seville on Maintenance Management.
- Received a contract from Sanmina-SCI for providing information technology support.
- Received a contract for over \$255,000 from the Army Aviation Missile Command (AMCOM) for the study of the Performance-based logistics.
- Received contracts from various firms to initiate and operate a CIO Forum and a Supply Chain Roundtable in Northern Alabama.
- Received SERC visiting research grant in England to work with Dr. Chris N. Potts and Dr. Celia Glass at the University of Southampton, Southampton, England.
- Received grant from the University of Twente in Holland to work on research projects in scheduling during special leave of absence from Ball State University.
- Received grant from an industrial firm (through the University of Lyon) to work on research in scheduling theory.
- Received numerous travel grants for various sources to travel to various countries in Europe and Asia, Australia, Brazil, and South Africa.
- Received research grant from School of Information Technology, Bond University, Australia to work on research in communications network optimization.
- Received grants from the Center for Information and Communication Sciences for Information Systems Curriculum development and design.
- Received several course development grants from Ball State University.
- Raised funds from the private sector for several conferences.
- Raised funds through conducting workshops for industry in the State of Indiana.

- Awarded contracts from industrial firms in the State of Indiana for training and problem solving in manufacturing, information, and team-building areas.
- Worked on a project on the solid waste collection through a federally funded socio-economic program for the model cities.

SPECIAL AWARDS, FELLOWSHIPS AND OTHER HONORS

- Received Outstanding Faculty Award (Business), University of Alabama in Huntsville, Alabama, 2017.
- Elected Fellow of the Production and Operations Management Society, 2016.
- Received Dennis E. Grawoing Distinguished Service Award from the Decision Sciences Institute (DSI), November 2014.
- Received the UAH Distinguished Research Award, University of Alabama in Huntsville, Alabama, 2014.
- Received Distinguished Service Award from Indian Subcontinent Decision Sciences, December 2013.
- Received Outstanding Service Award, College of Business Administration, University of Alabama in Huntsville, Alabama, 2012.
- Received the Outstanding Business Person Award from Iota Theta Chapter of Beta Alpha Psi, 2011.
- Received the Most Outstanding Teacher Award from the Student Government Association at the University of Alabama in Huntsville, 2010-2011.
- Received the Outstanding Graduate Teaching Award from the College of Business Administration, University of Alabama in Huntsville, Alabama, 2004, 2007 and 2010.
- Nominated for the Outstanding Service Award, College of Business Administration, University of Alabama in Huntsville, Alabama, 2009, 2010.
- Nominated for the Outstanding Undergraduate Teaching Award, College of Business Administration, University of Alabama in Huntsville, Alabama, 2006, 2007, 2008, 2009, and 2010.
- Received the UAH Foundation Award for Research and Creative Achievements, University of Alabama in Huntsville, Alabama, 2009.
- The paper on Information Warfare published in Logistics Information Management was voted as one of top 50 papers published in 2002 (out of a total of 20,000+) by Emerald.
- Received the Outstanding Faculty Award at Ball State University, Muncie, Indiana, 2000.

- Was a finalist for best paper award at the Annual Artificial Neural Networks in Engineering conference, St. Louis, November 1998.
- Elected Fellow of the Decision Sciences Institute, 1997 (generally, only two person per year are elected to be fellows of DSI).
- Won the best paper award at the SE INFORMS meeting, October 1997.
- Was a finalist for the Outstanding Faculty Service Award (1997) at Ball State University, Muncie, Indiana.
- Was a finalist for the Outstanding Administrator Award (1994 and 1995) at Ball State University, Muncie, Indiana.
- Received Dean's Teaching Award, College of Business, Ball State University, 1988, 1989, and 1999 (as a department chair I was not eligible for this award 1990-1997).
- Received the Outstanding Research Award from Ball State University, August 1988.
- Won the Robert W. Pearson Award for the best applied research paper at the North-East Decision Sciences Meeting, 1987.
- Nominated for the Dean James Chair Distinguished Teaching Award (and was one of the three finalists) at the School of Business, University of Baltimore, 1984.
- Received Superior Job Performance Award from the Energy Information Administration, January 1982.
- Voted as the best faculty advisors by the student body, 1972-73.
- Listed in American Men and Women of Science, Personalities of the South, and several other Who's who publications.
- Fellowships throughout college and university education.

PROFESSIONAL OFFICES HELD

Elected/Appointed Offices

- Immediate Past President, Decision Sciences Institute, 2018-Present
- President, Decision Sciences Institute, 2017-2018.
- President-Elect, Decision Sciences Institute, 2016-17.
- Track Co-chair, Public Sector Operations Management, 28th Conference of the Production and Operations Management Society, Seattle, May 2017.

- Track Chair, Manufacturing Operations, 26th Conference of the Production and Operations Management Society, Washington DC, May 2015.
- Vice-President for Global Activities, Decision Sciences Institute, 2013 - 2014
- Past President, Production and Operations Management Society, 2008 - Present.
- Chairperson of the Nominating Committee, Production and Operations Management Society, 2008 - 2009.
- Chairperson of the Strategic Planning Committee, Production and Operations Management Society, 2008 - 2009.
- President, Production and Operations Management Society, 2007 - 2008.
- President (2008 - Present) and Vice-President/President-Elect/President (2007-2009), Huntsville Association of Technical Societies (HATS).
- Chairperson of the Ad-hoc committee on Fellows Criteria and Selection, Decision Sciences Institute, 2009 – 2010; member 2011-2013..
- Member of the Ad-hoc committee to investigate the role of regions in DSI, Decision Sciences Institute, 2009 - 2010.
- Member of the Executive Committee, Decision Sciences Institute, April 2009 - 2010.
- Vice-President at Large Elect, Decision Sciences Institute, 2009 - 2011.
- Member, Executive Committee, Decision Sciences Institute, 2009 - 2010.
- Member of the Strategic Planning and International Affairs Committee, Decision Sciences Institute, 2009 – Present (Chair, 2013-2014)
- Founding Regional Vice-President (for Indian Subcontinent) Decision Sciences Institute, 2006 - 2009.
- Founding President, Indian Subcontinent Decision Sciences Institute Region, 2006 - 2009.
- President-Elect, Production and Operations Management Society, 2006-2007.
- Founding Chair, Alabama Chapter of ASUG (America's SAP Users Group), 2007 - Present.
- Chairman, International Council, Global Institute for Flexible Systems Management and Technology (GIFT), 2006 - 2008.
- Co-Chair, Alabama Chapter of ASUG (America's SAP Users Group), 2006 - 2007.
- Chairman, Ad-hoc Committee for creating DSI India Region, Decision Sciences Institute, 2004 - 2006.

- Chairman of the Board (2004-Present), President (2003-2004) and Executive Vice-President (2002-2003), Tennessee Valley Chapter, American Production and Control Society.
- Member of the Publications Committee, Production and Operations Management Society, 1997-2005.
- Member of the Advisory Board of the Center for Supply Chain Management, Management Development Institute, Gurgaon, India, 2000-Present.
- Chair of the Fellows (Selection) Committee, Decision Sciences Institute, 2000-2001.
- Regionally-elected Vice-President for Midwest Region (1998 - 2001), Decision Sciences Institute.
- Vice-President for Publications (1997 - 2000), Production and Operations Management Society.
- President (1992-1994) and Vice-President for Programs (1991-92), Institute of Industrial Engineers, Indianapolis Chapter.
- Chairman (1995-1996), Member (1994-1995), Programs and Meetings Committee, Decision Sciences Institute.
- Chairman (1994-95) of the Nominating Committee, Midwest Decision Sciences Institute.
- Chairman (1994-1995), Member (1993-1994), Publication Committee, Decision Sciences Institute.
- President (1993-1994) and President Elect (1992-1993) Midwest Decision Sciences Institute.
- Member, Ad-hoc committee for common membership data structure, membership service committee, Regional Activities Committee, and Programs and Meetings Committee, Decision Sciences Institute, 1991-1993.
- Vice-President for Education, Central Indiana Chapter, American Production and Control Society, 1988 - 1989.
- Vice-Chairperson and Chairperson Elect, Maryland Chapter of The Institute of Management Sciences/Operations Research Society of America (TIMS/ORSA), 1984-1985.
- Secretary, Maryland Chapter of TIMS/ORSA, 1983-1984.
- Region II Chairman, OR Division, American Institute of Industrial Engineers, 1974 - 1977.
- Organizational Representative: Washington Operations Research Council, 1973 - 1976.

Major Role in Conferences

- Conference Co-Chair of the 8th Conference of the Indian Subcontinent Decision Sciences Institute Conference, Pune, India, January 2015.

- Conference Co-Chair of the 7th Conference of the Indian Subcontinent Decision Sciences Institute Conference, Delhi, India, December 2013.
- Conference Co-Chair of the 6th Conference of the Indian Subcontinent Decision Sciences Institute Conference, Hyderabad, India, December 2012.
- Conference Co-Chair of the 5th Conference of the Indian Subcontinent Decision Sciences Institute Conference, Chennai, India, December 2011.
- Conference Co-Chair of the 4th Conference of the Indian Subcontinent Decision Sciences Institute Conference, Gurgaon (Delhi), India, December 2010.
- Conference Co-Chair of the 3th Conference of the Indian Subcontinent Decision Sciences Institute Conference, Hyderabad, India, January 2010.
- Conference Co-Chair of the 2nd Conference of the Indian Subcontinent Decision Sciences Institute Conference, Mumbai, India, January 2009.
- Conference Co-Chair of the 1st Conference of the Indian Subcontinent Decision Sciences Institute Conference, Ghaziabad (Delhi), India, January 2008.
- Chair of the Global Conference on Flexible Systems Management, Hoboken, NJ, June 2008.
- Conference Chair of the Inaugural Conference of the Indian Subcontinent Decision Sciences Institute Conference, Delhi, India, January 2008.
- Member of the International Advisory Committee, Global Conference on Flexible Systems Management, Noida, India, November 2007.
- Member of the International Conference Committee, Global Conference on Flexible Systems Management, Bangkok, Thailand, December 2006.
- Mini-track Co-Chair, Digital Supply Chains, AMCIS Conference, Acapulco, Mexico, August 2006.
- Conference Co-Chair for the Global Conference on Flexible Systems Management, Bhopal, India, December 2005.
- Conference Advisor, 16th Annual Conference of the Production and Operations Management Society, Chicago, Illinois, April-May 2005.
- Chief Guest for the Global Conference on Flexible Systems Management, Mussorie, India, December 2004.
- Co-chair for the 8th International Conference on Operations Management, Mumbai, India, December, 2004.
- General Co-chair for the 2nd World Conference on Production and Operations Management, Cancun, Mexico, April-May, 2004.

- Member of the Organizing Committee, Conference of the Asia Pacific Operational Research Societies, New Delhi, India, December 2003.
- Member of the Organizing Committee, International Conference on E-Government, New Delhi, India, December 2003. Angers, France, April 2003.
- Member of Organizing and Technical Committees, World Symposium on Group Technology and Cellular Manufacturing, Columbus, Ohio, July 2003.
- Member of the Program Committee, Annual International Conference on Enterprise Information Systems, 2001 through Present.
- General Co-Chair of the International Conference of the Production and Operations Management Society, Sao Palo, Brazil, July 2001.
- Member of the Program Committee, VI International Conference on Industrial Engineering and Operations Management, Sao Palo, Brazil, October 2000.
- Member of the Program Committee, Second International Conference on Enterprise Information Systems, Staford, UK, July 2000.
- Member of Technical Program Committee for the 16th ISPE/IEE International Conference on CAD/CAM, Robotics and Factories of the Future, CARS and FOF'00, Trinidad, June 2000.
- Member of Organizing and Technical Committees, World Symposium on Group Technology and Cellular Manufacturing, San Juan, Puerto Rico, March 2000.
- Chair, International Advisory Committee, Co-chair for Contributed Papers, International Conference of the Production and Operations Management Society, Delhi, India, December 21-24, 1999.
- Member of Organizing Committee for the 15th ISPE/IEE International Conference on CAD/CAM, Robotics and Factories of the Future, CARS and FOF'99, Aguas de Lindoia, Brazil, August 1999.
- Panel member (invited) and Member of organizing Committee for the International Meeting of the Production and Operations Management Society, Capetown, South Africa, June/July 1998.
- Program Chair (contributed papers) for the Annual Meeting of the Production and Operations Management Society, Santa Fe, New Mexico, April 1998.
- Proceedings Editor, Association of Information Systems meeting of Americas, Indianapolis, IN, August 1997.
- Coordinator for the New Faculty Development Consortium, Decision Sciences Institute Meeting, San Diego, CA, November 1997.
- Member of the 1996 Academic Administration Program Organization Committee, Decision Sciences Institute Meeting, Orlando, Fl, November 1996.

- Member of Program Committee for various meetings of the Production and Operations Management Society, 1991-1997.
- Track Chair for the Project Management Track for the INFORMS national meeting, New Orleans, LA, October 1995.
- Track chair for the Inaugural conference of the Association for Information Systems, Pittsburgh, PA, August 1995.
- Workshop co-leader (with Professor Bill Berry of Ohio State University) for the Workshop, Linking manufacturing and marketing strategies, Ball State University, Muncie, IN, March 1994.
- Track chair for the Manufacturing systems and logistics track for the TIMS international meeting in Alaska, 1994.
- Proceedings Editor, Midwest Decision Sciences Institute Meeting, Indianapolis, IN, May 1991.
- Program Chair for the Midwest Decision Sciences Institute Meeting, Indianapolis, May 1991.
- Organizer of the Production Management Program at the Technology Interface VI conference," Muncie, IN, 1988.
- Track Chair for the Midwest Decision Sciences Institute Meeting, Toledo, Ohio, April 1987.
- Session Chairman for various sessions at various meetings and conferences, 1975- Present including Decision Sciences Institute, INFORMS, Institute of Industrial Engineers, International Conference on Production Research, IFORS meeting, TIMS/ ORSA, Information Resources Management Association, and Production and Operations Management Society.

Journal Editorial Offices and Work

- Associate Editor, International Journal of Planning and Scheduling (2010-Present).
- Associate Editor, Decision Sciences, (1993-2005), 2011-Present.
- North American Editor, Global Journal of Flexible Systems Management, 2007 - 2008.
- Associate Editor, International Decision Support System Technology., 2007 - Present.
- Associate Editor, International Technology Management Review., 2007 - Present.
- Associate Editor, OMEGA, International Journal of Management Science., 2003-2006.
- Associate Editor, International Journal of Operations Research, 2005-2009.
- Associate Editor, Journal of E-Collaboration, 2004- 2008.

- Associate Editor, Global Journal of Flexible Systems Management, 2000 - 2006.
- Associate Editor, Journal of Electronic Commerce in Organizations, 2002-2004.
- Associate Editor, Decision Sciences, (1993-2005).
- Associate Editor, International Journal of Management and Systems, (1984 - 2007).
- Associate Editor, Journal of Manufacturing Systems Design (1992-2001).
- Departmental Editor, International Journal of Operations and Quantitative Management, Production and Operations Management, (1989 - 2003); and IIE Transactions, 1980 - 1986.
- Proceedings Editor, Association of Information Systems meeting of Americas, Indianapolis, IN, August 1997.
- Proceedings Editor, Midwest Decision Sciences Institute Meeting, Indianapolis, IN, May 1991.
- Member of the Editorial Board of such journals as: International Journal of Information Technologies and Systems Approach, (2004 - Present), Technovation. (2004 - Present), International Journal of Logistics Systems and Management. (2004 - Present), International Journal of Value Chain Management. (2004 - Present), Information Resources Management, (1994 - 2004), Journal of Management Issues, (1988 - Present), Computers and Operations Research, (1974 - 2007), Journal of the Operational Research Society, 1974 - 1986, Journal of Business, 1985 - 1988, Journal of Operations Management, (1991-1998), and International Journal of Operations and Production Management, 1991- 1998, Benchmarking for Quality Management and Technology - An International Journal (1992-1998), International Journal of Production Research (1993-1998), Production and Inventory Management Journal, 1986 - Present, and Production Planning and Control (1993-Present).
- Guest Editor for such journals as Production Planning and Control, Computers and Operations Research, Chinese Journal of Industrial Engineering, Strategic Information Systems. Journal of Decision Systems, Information Resource Management Journal, Journal of Global Information Technology Management, and European Journal of Operational Research.
- Expert Reviewer, National Science Foundation, 1976 - Present.
- Refereed for such journals as: Journal of Management Information Systems, International Journal of Operations and Quantitative Management, IEEE Transactions, Operations Research Letters, Information Resources Management, Annals of Operations Research, Computers and Operations Research, Operations Research, Decision Sciences, Naval Research Logistics, Opsearch, IIE Transactions, Management Science, Journal of the Operational Research Society, The International Journal of Production Research, Journal of Operations Management, European Journal of Operational Research, Production and Inventory Management, and Journal of Business.

- Maintain membership in several professional/academic societies including Information Resources Management Association, Association for Information Systems, American Production and Inventory Control Society, Decision Sciences Institute, Operations Research Society of India, and Production and Operations Management Society.

THESIS/DISSERTATION COMMITTEES

- Served as a dissertation supervisor for a student working on the topic of performance metrics for supply chain and logistics management.
- Served as a dissertation supervisor for a student working on the topic of mathematical models for crime-scene investigation and intrusion alarm detections.
- Served as a member of the dissertation committee for a student working on the topic of intelligent decision support for strategic e-business management at the University of Maryland at Baltimore County.
- Served as a member of the dissertation committee for a student working on the topic of information sharing in supply chains at the University of Maryland at Baltimore County.
- Served as a member of PhD thesis committee for a doctoral student in Operations Management from a university in Spain.
- Served as a member of PhD thesis committee for two doctoral students in Information and Operations Management from two universities in Brazil and Germany.
- Served as a member of PhD thesis committee for two doctoral students in Information and Operations Management from two universities in France.
- Served as a member of post-doctoral thesis committee for a faculty member in France (this is to qualify a faculty member to hold a position at the rank of Full Professor in France).
- Served as a member of PhD thesis committee for four doctoral students in Information Technology and Operations Management from three universities in Australia.
- Served as member of dissertation committees for doctoral students in Information Systems, Production Management, and Industrial Engineering from Universities in Holland (five students completed their PhDs in 1993).
- Served as member of dissertation committees for doctoral student in Information Systems Management at the University of Maryland at Baltimore County (student finished his PhD degree in August 1993).
- Served as a co-director of the doctoral dissertation committee for a student at the Mississippi State University in Production Management and Scheduling.
- Served as a member of PhD thesis committee for a doctoral student in Operations Management from Hyderabad University, Hyderabad, India.

- Served as member of dissertation committees for doctoral students in Scheduling area from universities in India.
- Served as a member of a dissertation committee for a doctoral student in Adult Education at Ball State University.
- Served as committee member and supervisor of Master's theses in Industrial Engineering at the University of Alabama in Huntsville.

CONSULTING AND INVESTIGATIONS

- Served as consultant to several governmental and industrial organizations. Salient assignments included:
 - Worked with various governmental agencies and private organizations to organize workshops and training sessions for implementing ERP systems.
 - Worked with various private organizations to organize to assist in deciding to use and select ERP systems.
 - Worked with organizations to investigate their contract performance evaluation methodologies to maximize their effectiveness and payoffs.
 - Worked with organizations to develop methodologies to design dashboard for effective decision making.
 - Worked with a manufacturing company to prepare their national and global supply chain strategy.
 - Worked with a manufacturing company in India to develop their strategic and tactical plans for supply chain management with special emphasis on procurement and supplier reduction.
 - Worked with Army Aviation Missile Command for various performance-based logistics, supply chain, operations, ERP and information systems functions.
 - Served as a member of several accreditation teams for business programs in Dubai, United Arab Emirates.
 - Served as an external examiner for the master's programs in business systems for a university in Australia.
 - Worked with a business firm in South Africa for the development and delivery of training programs in operations strategy, information technology strategy, and the enabling role of Information Technology.
 - Worked with a manufacturing organization to develop a business growth plan that includes an integrated view of marketing and operations management functions.

- Worked with an organization to develop the employee handbook describing various personnel policies of the organization. This required the formulation and presentation of these personnel policies as well.
- Worked with a service organization to implement the concept of the work teams in the organization. This required presenting the team concepts to various employees and managers and also working with them to resolve the problems.
- Worked with manufacturing and service firms in USA to implement the concepts of operations strategy, marketing-manufacturing interface, and total quality management to enhance firm performance and customer service.
- Performed the statistical analysis of the return items for the automatic clearance of checks to determine the bottlenecks and causes of the delay for the completion of the transactions especially on their return pass.
- Investigated the optimum level of the computer security for the State Information Systems. My contribution was the development of a model to identify the computer security levels in quantitative terms and to determine the optimum security level (as trade-off between cost and risks of data loss).
- Investigated the effects of wind velocities on rockets trajectories for NASA (through Data Processing Associates). I researched the characteristics of multiple Raleigh and other advanced probabilistic distributions, their shape, and variances. The research report was accepted by NASA and was used in their own designs.
- Investigated the practices of releasing work orders to the production and assembly shop of an electronics manufacturing firm. My research revealed that the work- flow in an electronics production shop follows the characteristics of the flowshop scheduling theory and resulted in a method for job scheduling and releasing work orders in the production shop.
- Investigated the problems associated with excess down time and maintenance cost for various machines in the production shop. My research and statistical survey revealed the necessity of reorganizing the maintenance department. I developed a queuing model and implemented it to determine the crew site and teams for the maintenance and repair of various machines. The net result was reduction in manpower, increased machine availability and decreased cost.

TEACHING ACTIVITIES

At the University of Alabama in Huntsville, developed and taught undergraduate and graduate courses in *Enterprise Systems and SAP*, *Information Assurance and Security* and **Supply Chain Management and E-Business**. Designed, developed, and taught the new capstone course for the MS in MIS program. In addition, regularly appear as a guest lecturer in the graduate course in **Technology Management**. At Ball State University and other universities, designed, developed, and taught several courses in Operations Management, Information Systems, and Management Science/Operations Research and Statistics. Also developed and taught capstone courses in Operations Management and Information Systems. In my career, I frequently received awards for

outstanding teaching, assessment and student advising. Brief course descriptions of the courses developed and taught at University of Alabama in Huntsville and Ball State University are given below. Detailed course outlines and other aspects of the courses can be provided on request.

At University of Alabama in Huntsville

MSC 385: Production/Operations Management

Survey of the concepts and institutions involved with the production function of a firm and of the basic quantitative tools used to solve operations problems. Topics include quality management, learning curves, assembly lines, linear programming, waiting lines, inventory, and others selected from operations scheduling, project management, facilities location, supply chain management.

IS 400/500: Business Intelligence

This course emphasizes the process of exploring data, data relationships and trends necessary to improve overall decision making in organizations. The goal is to positively effect change within the enterprise. *Business Intelligence* (BI) is comprised of four major product segments: interactive query tools, reporting tools, advanced Decision Support Systems, and Executive Support Systems. To illustrate the applications, this course uses the SAP BI Suite, major enterprise software for Business Intelligence, analytical, reporting and Data Warehousing solutions.

IS 416/516: Supply Chain Management and E-business

This course explores the issues in developing and managing an efficient and effective supply chain especially in the e-business environment. We will emphasize the integration of the supply chain components using emerging technologies. In particular, we will discuss the strategic role of integrated supply chains, key drivers of supply chain performance, and the use and impact of information technology and related advancements to achieve business goals. We will discuss the inter-organizational systems, electronic commerce technologies for application integration, and tools and techniques for supply chain analysis and integration.

IS 501: Introduction to Information Assurance

This course is designed to provide a general overview of the concepts of information assurance and security to students, both from a management and a technology perspective. Students will be introduced to the complexity of the information assurance and security issues facing today's networked organizations. Practices and standards will be presented to assess and plan for risks and the security needs to minimize the risks both technically and managerially. The integration of security concerns within the entire organizational planning and implementation processes and practices will be explored.

IS 480/580: Enterprise Systems and SAP

A course examining the configuration and implementation of enterprise resource planning (ERP) systems with a view to integrate all aspects of an organization into one information system. Specific attention is given to how ERP systems facilitate the flow of information supporting core business processes and the organization's supply chain. The course will emphasize the configuration of ERP systems to support the organizational structures and

business processes of the particular company to efficiently and effectively manage a firm's business.

IS 522: Supply Chain Management Systems

A course examining the purpose and implementation of enterprise resource planning (ERP) systems with a view to integrate all aspects of a supply chain. Specific attention is given to how ERP systems facilitate the flow of information supporting core business processes in a supply chain. This course presents the main concepts of supply chain management systems and software including ERP, CRM, and SCM systems as well as the underlying technologies and managerial implications. It provides hands on familiarity with SAP supply chain suite through ERPSim.

MSC 600: Operations Management

This course is an introduction to the management of business operations that produce products and provide services and to the basic quantitative tools used to solve operations problems. Quality management, inventory management, production planning, linear programming, waiting lines, and other topics in operations are covered.

IS 680: Enterprise Resource Planning Systems

This course examines the concepts, design, configuration and implementation of enterprise resource planning (ERP) systems with a view to integrate all aspects of an organization into one information system. Specific attention is given to how ERP systems facilitate the flow of information supporting core business processes and the organization's supply chain. The course will emphasize the configuration and strategic use of ERP systems to support the organizational structures and business processes of the particular company to efficiently and effectively manage a firm's business.

MGT 690: Global Supply Chain Management

This seminar course will explore the issues in developing and managing an efficient and effective supply chain especially in the global e-business environment. We will emphasize the integration of the supply chain components using emerging technologies. In particular, we will discuss the strategic role of integrated supply chains, key drivers of supply chain performance, and the use and impact of information technology and related advancements to achieve business goals. We will discuss the inter-organizational systems, electronic commerce technologies for application integration, and tools and techniques for supply chain analysis and integration.

IS 691: Information Systems: Strategy and Applications

The purpose of this capstone course is to emphasize the integration of various principles, theories, and techniques for developing, implementing and using information systems strategies and applications in organizations. It aims at providing a holistic view of Information Systems and Technology (IS/T) function in an organization with a view to serve an organization's mission and strategy throughout the value and supply chain. Specific skills that will be enhanced include system conceptualization, problem identification and definition, data modeling, and systems requirements development. These skills will be placed in the context of the business processes where they will be applied.

MGT 693: Supply Chain Strategy

This integrative course discusses the strategic role of supply chain management in organizations and develops a working knowledge of the process of formulating and implementing supply chain strategies to gain competitive advantage in a global environment. Topics covered include the linkage of supply chain strategies with corporate strategy, customer relationship and supplier relationship strategies, outsourcing strategies and related infrastructure needs to implement supply chain strategies. A team based practicum project helps students apply concepts and methods to real world problems.

At Ball State University

MGT 311: Information Systems: Concepts and Techniques

A first course in Information Systems required of all students in the Department of Management (after the computer skill building course, BEOA 210). The emphasis of this course is to comprehend the nature of IS/T function, tools and techniques, and the interactions with other functions of business.

MGT 351: Operations Management

A first course in P/OM required of all students in the College of Business. The emphasis of this course is to comprehend the nature of P/OM function, tools and techniques, and the interactions with other functions of business.

MGT 412: Systems Analysis and Design

Various systems analysis and design concepts and techniques, including key steps in the systems design and development cycle. Emphasizes the consideration of practical applications within the business environment.

MGT 419: Problems in Information Systems

A capstone course in the information systems program which requires students to complete a situation analysis report, actual projects, and several cases in addition to a major research paper. Students also participate in the AITP chapter activities.

MGT 453: Production Planning and Inventory Management

A senior course in the production planning and control system. Includes the design, development, implementation, and use of various concepts, tools, and techniques of planning and control systems including MPS, MRP, JIT, OPT, scheduling techniques, and marketing-production interface.

MGT 459: Problems in Production and Operations Management

A capstone course in the Production and Operations Management program which requires students to complete a situation analysis report, actual projects, and several cases in addition to a major research paper. In addition, students appear for the APICS certification examinations.

MGT 551: Operations Management

The emphasis of this course is to comprehend the nature of P/OM function, tools and techniques, and the interactions with other functions of business. The course is taught in

a framework of operations strategy where all functions are integrated through the formulation of a viable operations strategy. **Note:** *Taught this course via interactive television.*

MGT 611: Management Information Systems

The emphasis of this required MBA course (after the computer skill building course, BEOA 510) is to comprehend the nature of IS/T function, tools and techniques, and the interactions with other functions of business. Further, the issues relating to the management of information technology are emphasized in this course. **Note:** *Taught this course via interactive television.*

MGT 612: Systems Analysis and Design

Concepts and techniques for the analysis of information needs, specification of system requirements, system development life cycle, and the design, development, and implementation of computer-based information systems in organizations including structured and prototype approaches.

MGT 615: Information Resources Management

A course in the understanding of the issues and challenges of information as a resource in an organization. Emphasis is on the management of the information as organizational resource. Major terms paper and analysis of practical situations are required for this course.

MGT 619: Information Systems Strategy and Applications

A capstone course in the information systems program which requires students to complete a detailed situation analysis report, a major team project, and several cases. The course work is heavily geared towards the actual formulation and implementation of information systems strategy by integrating IS/T with other functional areas of business.

MBA 620: Managing Service and Manufacturing Operations

Discusses decision making in service and manufacturing organizations involving design, planning, scheduling, and control of productive systems. Cases illustrate various tools and techniques to manage operations and integrate the operations with other business functions to enhance domestic and global competitiveness. **Note:** *Taught this course via interactive television.*

MGT 653: Operations Planning and Scheduling Systems

A course in the production planning and control system. Includes the design, development, implementation, and use of various concepts, tools, and techniques of planning and control systems including MPS, MRP, JIT, OPT, scheduling techniques, and marketing-production interface. A major term paper and the resolution of an actual industrial situation is required in the course in addition to several case studies.

MGT 654: Contemporary Production and Operations Management

Emerging issues and challenges in the field of P/OM. Deals with such issues as TQM, re-engineering, service operations effectiveness, technology management, work-team formation and management, and role of enterprise management in enhancing the use of P/OM tools and techniques.

MGT 659: Operations Strategy: Problems and Challenges

A capstone course in the Production and Operations Management program which requires students to complete a detailed situation analysis report, actual projects, and several cases in addition to a major research paper. The course work is heavily geared towards the actual formulation and implementation of operations strategy by integrating P/OM with other functional areas of business. **Note:** *Taught this course interactive television.*

ICS 695: Strategic Planning for Information Technology

Determination of corporate vision and alignment of technology-based solutions resulting in the strategic use of information and communication systems and technology. Covers the positioning of the IT platform and the alignment of business with technology for the long term.

ACADEMIC AND INDUSTRIAL EXPERIENCE

ASSOCIATE DEAN for Graduate and Sponored programs (2013-2016), EMINENT SCHOLAR in Management of Technology (2002-Present), CHAIRPERSON of the Department of Accounting and Information Systems (2002-2005), and PROFESSOR of Information Systems, Industrial and Systems Engineering, Engineering Management, University of Alabama in Huntsville, Huntsville, Alabama (2002-Present) My appointment as Eminent Scholar in Management of Technology is a College-wide appointment and I participate in the design, development and teaching of several programs in the College of Business Administration. As an Associate Dean, I provide overall direction and management expertise needed for the strategic and operational functions of the graduate and sponsored programs in the College of Business Administration. In addition, *I hold a joint appointment as Professor of Industrial and Systems Engineering and Engineering Management in the College of Engineering.* Specifically, some of my current activities included the following:

- Redesigning existing undergraduate and graduate programs and courses in various areas.
- Working with the College of Engineering to enhance cooperative programs offered by these two colleges, especially related to graduate programs in Engineering and Technology Management.
- Working with the College of Engineering and College of Liberal Arts to develop an executive level Doctorate in Business Administration (DBA) program..
- Developing and teaching a graduate capstone course in Information Systems.
- Developing material and integrating it in the business curriculum related to SAP (a major ERP software and comprehensive business process integration force).
- Lead the College of Business Administration efforts in the development and approval of three new MS degree programs specializing in Business Analytics, Human Resource Management, and Supply Chain/Logistics Management.

- Lead the College of Business Administration efforts in the development and approval of revised curricula for the MBA, MS-IS, and MSCBS programs at the graduate level and BSBA with a major in Information Systems at the undergraduate level.
- Developing and teaching a graduate and undergraduate courses in Enterprise Resource Planning (ERP) Systems. Also working on creating an academic program in this area, possibly in collaboration with College of Engineering.
- Developing and teaching a graduate and undergraduate course in Supply Chain Management and E-Business. Also working on creating an academic program in this area, possibly in collaboration with College of Engineering.
- Receive a software grant (approx 3M in value) from the SAP University Alliance Program for SAP software and a cash grant from IBM (60,000) for supporting financial resources to integrate technology into the business curriculum through industrial support.
- Participated in the AACSB re-accreditation effort for the College of Administrative Science becoming fully familiar with the requirements and trends for AACSB accreditation.
- Designed and implemented a graduate certificate program in Information Assurance and Security.
- Created a Supply Chain Roundtable where top executives from local business firms and government agencies participate to create partnership with our university for problem solving in academia and practice. This roundtable is funded by the business community.
- Created a CIO Forum to enable the Chief Information Officers and Information Technology Executives to share their problems and experiences to broaden the knowledge base in the community. This Forum meets every other month and is funded by the business community.
- Served as a faculty advisor to AITP (Association of Information Technology Professionals) Student Chapter at UAH.
- Conducted the course and program assessments for the graduate and undergraduate programs in Information Systems and Accounting.
- Worked on creating online courses and programs using instructional technology.
- Served as a member of the University committee for the Study Abroad and Global Studies Programs.
- Participated in the review and redesign of the MS in Management of Technology (MOT) program.
- Motivated and lead the faculty to enhance their contributions to the professional societies by serving as officers of various organizations.

- Worked on creating and organizing various departmental policies and procedures for the tenure, promotion and salary determinations.
- Recruited excellent faculty for the department to build the departmental reputation in the university, community and the region.
- Coordinated and leading the faculty in the teaching of various courses, thus enhancing the faculty teaching effectiveness significantly.
- Coordinated and leading faculty in research and publications.
- Participated in several committees that require the participation of a departmental chairperson.
- Served as a member of the University Research Committee that evaluates and decides on mini-research grants to young faculty.
- Served on the doctoral committees of students in Industrial and Systems Engineering at UAH and Information Systems at the University of Maryland, Baltimore County.
- Served as a member of Reappointment Committee for a faculty members in other departments.

PROFESSOR (and CHAIRPERSON, July, 1985 - June, 1996) of Management, Adjunct Professor of Information and Communications Sciences, and Adjunct Professor of Industry and Technology, Ball State University, Muncie, Indiana (July 1985-June 2002) The

Department of Management included Information Systems and Technology, Production/Operations Management, Personnel Management and Organization Behavior, Decision Sciences, Small Business and Entrepreneurship, and General Management. As its Chair for 11 years, provided overall direction and management expertise needed for the strategic and operational functions of the department. At Ball State, made significant contributions to the departmental administration, College of Business, and the University. Additionally, as an Adjunct Professor of Information and Communication Sciences, I participated in the design and development of programs and courses for the graduate program in Information and Communication Sciences. Further, served as an Adjunct Professor of Industry and Technology. Specifically, some of my accomplishments and contributions include the following:

- Served as Chair of the Graduate Curriculum Committee, College of Business.
- Served as Chair of the Technology Taskforce to integrate technology into the business curriculum including the use of the ERP software.
- Served as College of Business Technology Fellow to identify and assess the technology requirements and means to integrate technology into business programs.
- Served as MBA Technology Fellow to enhance the use of instructional technology into the MBA program.

- Served as the Chair of the MBA Integration Sub-Committee to find means to integrate various disciplinary areas in the MBA program.
- Wrote and received a university grant to create an e-business graduate program at Ball State University.
- Participated in the AACSB re-accreditation effort for the College of Business becoming fully familiar with the requirements and trends for AACSB accreditation.
- Conducted the course and program assessments for the graduate and undergraduate programs in Information Systems and Operations Management.
- Motivated and lead the faculty to enhance their contributions to the professional societies by serving as officers of various organizations.
- Upgraded and organized various departmental policies and procedures for the tenure, promotion and salary determinations.
- Recruited excellent faculty for the department to build the departmental reputation in the university, community and the region.
- Coordinated and lead the faculty in the teaching of various courses, thus enhancing the faculty teaching effectiveness significantly.
- Coordinated and lead faculty in research and publications, thus enhancing faculty research productivity by a factor of more than five.
- Redesigned existing undergraduate and graduate programs and courses in Management Information Systems, Production/ Operations Management, Quantitative Business Analysis, Human Resources Management, and General Management.
- Participated in the creation of a computer science minor.
- Participated in the development of a graduate Manufacturing Management program and an undergraduate minor in Information Systems.
- Participated in the University Technology Committee to create a curriculum in Technology Management.
- Developed and taught the MBA core course in Information Systems via interactive television.
- Designed an Information Systems concentration in the MBA program and designed, developed, and taught the Information Systems Strategy course.
- Developed and taught the MBA courses in Production and Operations Management via interactive television to include the information systems for operations management as an explicit component of the course.

- Designed a concentration in the MBA program in Operations and Manufacturing Management which is now being taught via interactive television.
- Expanded the international coverage by visiting assignments and having several international faculty members visit the campus.
- Expanded the use and coverage of technology (and in particular information technology) in the teaching, research, and administration activities of the department.
- Participated in the design and development of the Master's degree program in Information and Communication Sciences through the Center for Information and Communication Sciences, designed several courses and assisted in the hiring of faculty.
- Participated in several committees such as: University Department Heads, Departmental Tenure and Promotion, Departmental Salary, Departmental Curriculum, Department Chairs for the center for Information and Communications Sciences, Development of Department Chairperson, and other committees that require the participation of a departmental chairperson.
- Served as University Senator from the College of Business.

PROFESSOR of INFORMATION and QUANTITATIVE SCIENCES and DIRECTOR of RESEARCH, University of Baltimore, Baltimore, Maryland (August 1982 - June 1985) I designed and taught several courses in the graduate and undergraduate programs in information systems, operations research and business. Some of my accomplishments include:

- Redesigned the Management Information Systems Program at the undergraduate and graduate programs.
- Designed the graduate Operations Research Program within the School of Business and implemented this program.
- Served as the Director of Research for the School of Business to coordinate the research efforts of the faculty to meet AACSB requirements for the graduate accreditation.
- Served as the University Senator from the School of Business for the University faculty Senate.
- Served as the Acting Chairman of the Information and Quantitative Sciences Department during Summer 1983.

- Worked with local industries to establish on-site courses in statistical and regression analysis.
- Served as the chairman of the Graduate Curriculum Committee to coordinate and ensure appropriate design of all graduate programs in the School of Business.
- Served as a member of the Tenure and Promotion Committee for the School of Business.
- Served as a member of the Senate Executive Committee for the School of Business.
- Served as a member of the High Technology Committee for the Maryland State Colleges and Universities.
- Worked with professionals from the local community to establish a Maryland Chapter of the TIMS/ORSA and served as its first Secretary and then as its Vice-Chairperson and Chairperson Elect.
- Actively participated in the development of the Information and Quantitative Sciences Department as well in the AACSB accreditation process.

COMPUTER SYSTEMS ANALYST and OPERATIONS RESEARCH ANALYST, Energy Information Administration, Washington, D.C. (September 1981-September 1982 and part-time October 1982- August 1983; May 1984-August 1984 as a summer employee and September 1984-May 1985 as part-time)

As an Operations Research Analyst and the acting Chief of the Special Projects Section in the Petroleum Supply Division, I directed several studies and investigations to improve the quality of petroleum supply data at reduced costs. In addition, serves as a computer system analyst for the procurement of Class V computer system. My specific accomplishments included:

- Preparation of the detailed specifications for the procurement of the Class V computer system and preparing the request for proposals. In addition, coordinated with the General Services Administration for securing their approval for this procurement.
- Redesign of various forms used to collect petroleum supply data from the industry, coordinating the new forms and procedures with various federal and private organizations through public hearings and personal meeting.
- Development of an inventory model to predict the conditions that may arise as a result of the changes in the behavior of various refineries as reflected by the petroleum supply reporting system.
- Development of a model to assess the natural gas resources in the United States and reconciliation of data from various sources.
- Providing expert opinion to Source Evaluation Board (SEB) for the procurement of ADP facility contract worth over \$25 million.

**DIRECTOR, APPLIED SCIENCES DIVISION, Energy Information Administration,
Washington, D.C. (March 1980-September 1981)**

- As Director of the Applied Sciences Division, I managed the functions and activities of a support division engaged in providing scientific software and econometric/operations research services to various elements of the Energy Information Administration. I directed the identification of Automatic Data Processing (ADP) user needs for improved scientific-oriented software capabilities and the development of policies, procedures, and scientific-oriented software to satisfy user needs. I directed and managed the analytical support functions provided by the Office of ADP Services to various organizational units of the Department of Energy. These functions include the application and implementation of operations research, statistical, and econometric techniques in the evaluation and design of computer systems for processing energy data. I ensured an optimal use of existing and proposed techniques and computer capabilities to process energy data at least cost. My management efforts resulted in a cost savings of over \$200,000 in FY 1980 and FY 1981 in providing the software services for the statistical/econometric/ operation research models used in the processing of energy data. In addition to the above, I served as the Chairman of the Committee to develop a plan for the distributed data processing Pilot Test to investigate the use of mini/micro-computers to process energy data; I designed a framework for the ADP Resources Management System to provide users with graphical reports on development of ADP resources.
- Simultaneously with the above position, I served as the Acting Director of the ADP Planning and Evaluation Division responsible for the ADP planning, procurement, and contract management of all ADP hardware, software, and services. The procurements and contracts totalled \$14 million (approximately) per year and required the preparation and review of statements of work, procurement requests, coordination with several elements of the DOE General Services Administration (GSA). I designed and implemented the systems and procedures necessary to prepare and effect the procurement of ADP hardware, software, and services. This reduced the manpower spent in those actions by at least 30 percent. Also, in this position, I directed the ADP requirements studies for the multi-functional equipment, terminals and communications equipment, and the ADP Conversion Study.
- Concurrent with my position as the Director of the Applied Sciences Division, I served as the Acting Director of the Computer Services Division, responsible for maintaining and controlling computer hardware. In this position, I directed efforts in establishing new ADP Services, implementing Departmental and Governmental ADP policies for the operation of ADP facilities, and provided experienced management of the review and analysis of ADP plans, budgets and equipment acquisitions and evaluations.
- During the time of my assignment as the Acting Director, Computer Services Division, I decreased the time required for problem resolution by 50 percent, ensured that project deadlines were met (this division, prior to my assignment, was notorious for always slipping its deadlines). and increased the computer availability to users.

- In performing the above duties, I was a key senior management officer of the Office of ADP Services and often represented the Office Director at meetings and decision conferences. In addition, I served as a technical and management adviser to the Office Director on substantive issues to ensure that political, technical, and managerial aspects are included in the resolution of issues.

GENERAL MANAGER, INFORMATION TECHNOLOGY, U.S. Postal Service, Washington, D.C. (August 1977 - March 1980)

As General Manager of the Information Technology Division, I directed a professional staff of Computer Specialists, Systems Analysts, and Operations Research Analysts engaged in the planning and enhancements of ADP Systems, postal service wide regulations, and Control of ADP hardware/ software in the U.S. Postal Service. I developed procurement policies and procedures which were consistent with Federal Procurement Regulations and managed the commercial time-sharing contracts. I directed the development and implementation of the Distributed Data Processing framework and policies for the U.S. Postal Service and implemented management techniques for cost-effective utilization of ADP resources. Among the projects completed were:

- Study and evaluation of new developments in the field of computing and associated equipment functions including installation and utilization of highly complex communication network design.
- Development and pilot testing of an Automatic Time and Attendance Processing System (ATAPS) for the processing of payroll data in local post offices in the country. This system utilized micro-computers and is considered to be a major contribution to the U.S. Postal Service operations.
- Development and implementation of the reconfiguration of the Postal Source Data System to eliminate the need for manual Tele-concentrator sites by replacing them with suitable unmanned equipment and gaining advantages of changes in site locations and other available Telecommunication Networks.
- Development of the information systems strategic planning and project management methodologies to effectively guide the Management Information Systems Department in fulfilling its missions and charter.
- Development of Requests for Proposals for various analytical/systems projects. Included in this activity is also the evaluation, and benchmark studies for the technical/financial analysis of the proposals received and preparing specific Statements of Work.
- Evaluation of the development and implementation of a Small Computer Systems Policy and Procedures for the employment of mini/micro-computers throughout the U.S. Postal Service.

GENERAL MANAGER, STATISTICAL SYSTEMS REQUIREMENTS DIVISIONS, U.S. Postal Service, Washington, D.C. (May 1973 - August 1977)

As General Manager of the Statistical Systems Requirements Division, I directed a professional staff of statisticians, operations researchers, and systems analysts for the (a) development of

quantitative and econometric forecasting models for managerial decisions, (b) application of statistical and econometric analysis to several operational and strategic systems of the Postal Service, (c) sampling techniques for large-scale statistical information systems, and (d) design and development of major analytical information systems to support the rate-making process. In addition, personally developed (a) various econometric and forecasting models which predict mail volumes at post offices in the country, (b) integer programming algorithms for the editing of sampled data, (c) requests for proposals and statements of work for the design of statistical and econometric systems including programming support which were consistent with Federal Procurement Regulations and Postal Service requirements, and (d) prepared and projected the annual (short-term and long-term) budget requirements to support various elements of the U.S. Postal Service. I identified and developed systems requirements for a multi-disciplinary user group and their inclusion into the long-term information systems plan for the U.S. Postal Service. I frequently briefed the senior management on the key issues, systems, and plans including recommendations for the optimum action strategies at any given time. My key accomplishments in this position were:

- Structural reorganization of the Office of Statistical Programs and Standards to align the functions and responsibilities co-equally and to provide for the operations research, econometrics, and the analytical support to solve managerial problems. This reorganization improved the availability of information for such functions as postal rate making without increase in cost or people.
- Direction, design, and implementation of a revenue allocation system for distributing the total U.S. Postal Service revenue to its various regions and districts. Developed a financial information system from various revenue and volume measurement systems which required an in-depth study of the systems and US mail flow patterns.
- Investigation of the rate-making process to develop a mathematical/econometric model to provide guidelines for establishing of equitable and fair rates for various mail classes. Starting with demand analysis and cost determination, the model bridge the econometric and operations research techniques for making corporate policy.
- Evaluation of the Electronic Mail System and the use of various mathematical models used in the development of the electronic mail network.
- Direction and redesign of the major statistical information systems. Specifically, my contributions included the development of edit criteria based on the theory of integer programming, the determination of alternative and efficient sample allocation procedures, and the valuation of various estimation procedures.

COORDINATOR of BUSINESS ADMINISTRATION and ASSISTANT PROFESSOR Of ADMINISTRATION, Sangamon State University, Springfield, Illinois (September 1971 - August 1973) I designed and taught graduate and undergraduate courses in operations research, economics, and management information systems. My specific accomplishments included:

- Designed a business administration program to meet the requirements of the local community. My specific contribution was to direct, through presenting cohesive framework, the thinking of various faculty members towards a systems viewpoint of education.
 - Designed an operations research program from an applied and public sector orientation to include the development of module concept of education.
 - Developed a faculty evaluation system and the participation in the faculty evaluation. My specific contribution was the creation and implementation of a job evaluation process based on a point system.
 - Served as a member of the university assembly, a policy-making body in the university, and directed the evaluation, and implementation of various proposals to provide better platforms. Eventually, participated in the debates on various bills, including the faculty tenure bill, and a change from a quarter to semester system of education.
 - Contributed in the development of Computer Science and Economics Programs. As a member of task forces for these programs, made contributions to the awareness of community requirements and public policy orientation of programs. In addition, designed and taught courses in Managerial Economics and Mathematics for Economics and Management.

ASSISTANT PROFESSOR of ENGINEERING, The University of Alabama in Huntsville, Huntsville, Alabama (October 1969 -August 1971) I designed and taught graduate and undergraduate courses in Operations Research, Industrial Engineering, Statistics, and Management Information Systems. I also participated in the review of the undergraduate engineering program to ascertain that it met ABET requirements. I advised graduate students in their research program design and implementation. In addition to regular teaching and faculty responsibilities:

- Worked on the socio-economic program for the model cities. Specific contribution was the development of a linear regression model to determine the degree of alienation of a group of people in a community on the basis of their race, or the ethnic characteristics, family size, income, or education level. The program was funded through the Federal Government Model Cities Program.
- Conducted (as a member of a team) an in-depth study of the refuse collection problem funded by the city of Huntsville. My specific contributions were the development of a methodology for dividing the city into a number of areas to provide equitable workload, and the direction of the students' efforts to develop various routing schemes. Final proposal was accepted and implemented by the city management.
- Conducted a research investigation (funded by the University Research Committee) to determine the relationships between scheduling and sorting problems. The investigation revealed that scheduling problems can be viewed as complex sorting problems and this analogy between scheduling and sorting can be exploited to develop several heuristic rules to seek approximate solutions to the scheduling problems. Several heuristic rules were developed

and investigated on the UNIVAC 1108 computer and found to be superior to other available methods.

- Contributed in the design and implementation of master's program in operations research within the industrial engineering program. My specific contribution was the preparation of a draft proposal and the development of specific courses in the program.
- Directed the research activities of various students working towards their master's thesis. The problems encountered were quickly resolved and the research resulted in theses and publications.

INSTRUCTOR and RESEARCH ASSISTANT, Departments of Economics and Industrial Engineering, Texas Tech University, Lubbock, Texas, (September 1967 - August 1969; part-time). Participated in research in industrial economics, engineering, and operations research. Also, taught courses in Statistical Quality Control, Engineering Economy, and Principles of Economics. Assisted a faculty member in Economics in the preparation of a textbook in mathematical economics and the creation of its instructor's manual.

ASSISTANT EXECUTIVE ENGINEER, National Projects Construction Corporation, New Delhi, India (June 1964-July 1965).

As Assistant Executive Engineer, I directed engineers and technicians to provide support functions for the construction of a thermal power station. In addition, served as the Technical/Special Executive Assistant to the Durgapur Unit Chief for all administrative work including the evaluation of contracts. My key assignments in this position were:

- Direction of the Steel Structure Department. This included job-shop like operations to produce steel structures from scratch for the construction of thermal power station and their installation according to specifications.
- Cost studies for various construction programs to prepare cost estimates of various operations and alternate designs for reinforced concrete, construction frames, and other such activities.
- Direction of the procurement and supply functions to ensure that procurements were cost effective and met the engineering specifications.
- Management of the office for the general administrative services such as: recruitment of staff, leave control, and payments.
- Negotiations with the client on the deviations of work requirements beyond the scope of the original contract to obtain agreement on the cost overruns and modifications to the original contracts.
- Advise the Superintendent of Construction for various miscellaneous items including the coordination of various construction activities.

ACCREDITATION AND ADVISORY APPOINTMENTS

- Member of accreditation team, Commission of Academic Accreditation, United Arab Emirates.
- Member of Executive Advisory Board for a Business School (English Speaking) in Turkey.

