About the Contributors

**Madjid Tavana** is a Professor of Business Systems and Analytics and the Lindback Distinguished Chair of Information Systems and Decision Sciences at La Salle University where he served as Chairman of the Management Department and Director of the Center for Technology and Management. He has been a Distinguished NASA Research Fellow at Kennedy Space Center, Johnson Space Center, Naval Research Laboratory - Stennis Space Center and Air Force Research Laboratory. He was recently honored with the prestigious Space Act Award by NASA. He holds an MBA, a PMIS and a PhD in Management Information Systems and received his post-doctoral diploma in strategic information systems from the Wharton School of the University of Pennsylvania. He is the Editor-in-Chief for Decision Analytics, the International Journal of Strategic Decision Sciences, the International Journal of Enterprise Information Systems and the International Journal of Applied Decision Sciences. He has published over one hundred research papers in academic journals such as Decision Sciences, Information Systems, Interfaces, Annals of Operations Research, Omega, Information and Management, Expert Systems with Applications, European Journal of Operational Research, Journal of the Operational Research Society, Computers and Operations Research, Knowledge Management Research and Practice, Computers and Industrial Engineering, Applied Soft Computing, Journal of Advanced Manufacturing Technology and Advances in Engineering Software, among others.

***

**S. Samar Ali** conducts research in purchase-incidence models; Bayesian analysis; multi-criteria decision-making; reliability function; supply chain management; logistics management; research evaluation in management. Her articles have appeared in reputed European, American, Indian, and South-Asian journals. She has presented papers in International and National conferences at USA, Canada, Bangkok and India. Her name appears as advisory board member, associate editor and guest editor of some journals of international repute. She is an active member professional in reputed societies like APICS, POMS, SOM, ACLM, IIMM. She has authored one book titled “Models in Consumer Buying Behaviour. Professor Ali was recipient of University Gold Medal at PG and stood first in UG also at Aligarh Muslim University, Aligarh.

**Saeed Asadi Bagloee** is a Senior Transportation Planner and lead modeler at Parsons Overseas Limited in Dubai, UAE. He received his BS in Civil Engineering from the Khaje Nasir Toosi University of Technology and his MS in Transportation Planning and Engineering from the Sharif University of Technology in Tehran, Iran. His research interest is transportation planning and modeling including
travel demand forecasting, road network design and transit planning, and economic analysis of transportation projects as well as econometric analysis. He has conducted extensive research at the Institute for Transportation Studies and Research at the Sharif University of Technology and has presented and published his researches in several international journals and conferences.

**Alberto Baldacci** is Managing Director at NSIGHT, a consulting firm providing scientific research services. He is working on Maritime Situation Awareness, particularly on Anomaly Detection. He has published over 30 peer reviewed research articles since 1997.

**Sachin Batra** earned his Medical Degree from the University of Delhi, Delhi, India and a Master of Public Health from the University of Alabama at Birmingham, AL, USA. He is currently a Research fellow studying outcomes of cerebrovascular and neuro-oncological disorders under the mentorship of Dr. Daniele Rigamonti.

**Derrick S. Boone, Sr.** is an Associate Professor of Marketing at the Wake Forest University - Schools of Business. He earned his BA in Chemistry from the University of North Carolina at Chapel Hill, his MBA from Fairleigh Dickinson University, and his Ph.D. in Business Administration (Marketing) from the Fuqua School of Business at Duke University. His research interests focus on multivariate statistical analysis, analytical modeling, consumer behavior, and behavioral decision theory. He has published in the *International Journal of Research in Marketing, Marketing Letters, Journal of Product Innovation Management, Psychology & Marketing, European Advances in Consumer Research*, and various conference proceedings.

**Marco Cococcioni** is working toward a visiting researcher program at NURC. His current research interests are in decision support systems and computational intelligence, the latter mainly approached by neuro-fuzzy systems optimized through multi-objective evolutionary algorithms.

**Dessa David** is an Assistant Professor of Department of Information Sciences & Systems at Morgan State University, Maryland. She received her Ph. D. in Computer Science at Graduate Center City University of New York. Her research interests include information systems implementation/diffusion, strategic use of information systems, use of information systems in supply chains, end user computing, agent based IS, decision support systems and related technologies. She has published articles in *Journal of Academy of Business Economics, The Journal of Management and Engineering Integration, Review of Business Research, Business Research Yearbook, ACM Intelligence*.

**Debora Di Caprio** completed her Masters and PhD in Pure Mathematics at York University, Toronto, Canada. Her Undergraduate studies were in Mathematics at the Seconda Università degli studi di Napoli, Italy, where she has also been a Researcher and was awarded the title of Subject Expert in Geometry at the Dipartimento di Matematica. She is currently a Visiting Researcher at the Department of Mathematics and Statistics of York University and a Contract Professor in the Facoltà di Economia at the Libera Università di Bolzano, Italy. Her research interests focus on set-theoretical topology, hyperspace topologies, utility and choice theory, information and uncertainty and she has several publications in mathematical journals, such as, *Topology and its Applications, Topology Proceedings* and the *International Journal of Applied Mathematics*, among others.
Rameshwar Dubey is presently associated with various professional bodies like Asian Council of Logistics Management, Society of Operations Management, AIMS International & Operational Research Society of India as an active member. He at present actively involved in research in Logistics management, green supply chain management, Total Quality Management, World Class Manufacturing, Study on Logistics Skill Gap and Transportation Economics. Beside teaching he is also regarded as a very innovative teacher. He at present teaches at reputed B-Schools in India as an adjunct professor and presently engaged as an academic and research head with University of Technology and Management at Shillong. He is also reviewer of reputed Journals and serving actively in the Editorial Board of reputed publications like AJIM, IJIS and Editor of Quarterly publication of Asian Council of Logistics Management Journal “Logistics Today.” He is also a recipient of best faculty and researcher award from UPES & AIMS International.

Mahdi Fathi received the B.S. and M.S. degrees from the Department of Industrial Engineering, Amirkabir University of Technology (Tehran Polytechnic), Tehran, Iran, in 2006 and 2008, respectively. His research interests are in the modeling and analysis of stochastic systems (e.g., telecommunications, manufacturing, service, and risk systems), queueing theory, inventory theory, and algorithmic methods in applied probability.

Satish K. Goel is presently working as Assistant Professor in the Department of Operational Research, Faculty of Mathematical Sciences, University of Delhi, India. He has completed his Ph.D. and Masters Degree from Department of Operational Research, University of Delhi. His area of interest is Inventory Control and Management and published about 13 research papers in this area.

Veena Goswami is currently a Professor in the School of Computer Application, KIIT University, Bhubaneswar, India. She received her Ph.D. degree from Sambalpur University, India, in the year 1994 and then worked as a research associate at Indian Institute of Technology, Kharagpur for two years. Her research interests include continuous- and discrete-time queues. She is a life member of Indian Society for Technical Education, Orissa Mathematical Society, Orissa Information Technology Society, Indian Statistical Association and Indian Science Congress Association. She has published research articles in *INFORMS Journal on Computing, Computers and Operations Research, RAIRO Operations Research, Computers and Mathematics with Applications, Computers and Industrial Engineering, Applied Mathematical Modelling, Applied Mathematics and Computation, Journal of Systems Science and Complexity, Journal of Systems Science and Systems Engineering*, etc.

Raffaele Grasso is scientist at NURC since 2006. His main research interests include remote sensing, signal and image processing, target detection, maritime surveillance systems and decision support systems for operation planning.

Omprakash K. Gupta is a management faculty in the College of Business at University of Houston-Downtown in Houston, Texas, USA. He has previously worked at Purdue University, Ball State University, Washington State University, IIM Ahmedabad, CMC Ltd, and Nirma Institute of Management. His areas of interest are in management, operations research, operations management, business strategy, etc. Dr. Gupta has published over fifty research papers in several refereed journals such as
Management Science, European J. of Operations Research, Journal of Business Ethics, Journal of OR Society, etc. He is the Editor-in-Chief of Int. J. of Operations and Quantitative Management and AIMS International Journal of Management. Dr. Gupta is recipient of several teaching and research excellence awards. He is also frequently invited to conducts workshops and seminars, primarily for the management faculty development.

**Douglas Hales** is an Associate Professor of Supply Chain and Operations Management at the University of Rhode Island. He earned his Ph.D. in Management at Clemson University, South Carolina. He has published several journal articles in *European Journal of Operational Research, International Journal of Operations and Production Management, International Journal of Production Economics* etc. His research interests include supply chain performance measurement systems, logistics management, and quality management.

**Wesley Hsu, M.D.,** is Assistant Professor of Neurosurgery and Orthopedic Surgery and Director of Spinal Oncology at Wake Forest Baptist Medical Center in Winston-Salem, North Carolina. He completed his residency in neurosurgery as well as a fellowship in spinal oncology at the Johns Hopkins School of Medicine in Baltimore, Maryland. His current academic interests include translational research related to spinal oncology, clinical outcomes after spine surgery, and the costs related to neurosurgical procedures.

**Li-Ting Huang** is an assistant professor of information management in the Chang Gung University in Taiwan. Before her academic career, she worked six years in the MIS department of Winbond Electronic Co. Ltd. Currently her research focuses on e-commerce, supply chain management, internet marketing, and organizational behavior. Dr. Huang published various papers in the international journals, such as Cyberpsychology, Behavior, and Social Networking, Total Quality Management & Business Excellence Journal, WSEAS Transactions on Business and Economics, Journal of Information Management, Management Review, Sun Yat-Sen Management Review, etc.

**Yu-Tsung Huang** is BPR project engineer in the KAULIN MFG CO. Ltd., Taiwan. He holds BSc. degree in Finance and Banking, MBA as well as Ph.D. degree from the National Central University, Taiwan. His research interests are in area of global logistics management, ERP and business process management, financial accounting. Dr. Huang published several papers in academic journals as well as international conference; besides, he gives BPR consultations for the industry.

**Chandra K. Jaggi** is an Associate Professor in the Department of Operational Research, Faculty of Mathematical Sciences, University of Delhi, India. He earned his PhD, M.Phil. and Master’s degree from the Department of Operational Research, University of Delhi. His research interest lies in the field of analysis of inventory system. He has published more than 55 papers in various international/national journals including *International Journal of Production Economics, Journal of Operational Research Society, International Journal of Systems Sciences, European Journal of Operational Research, Investigacion Operacional Journal, Advanced Modeling and Optimization, TOP, Opsearch etc.* He has guided M.Phil./ Ph.D. theses in Operations Research. He is Editor-in-Chief of International Journal of Inventory Control and Management. He is associated editor of International Journal of Systems Assur-

**Sarojini Jajimoggala** graduated from Andhra University in Mechanical Engineering in 1999 and received a Master’s in Industrial Engineering from Andhra University, Visakhapatnam, India in 2001. She started her teaching at GMRIT immediately after completion of post graduation. She has more than nine years experience in teaching at both under graduate and post graduate level. Presently, doing her research work at Andhra University in the area of Maintenance planning by using multi-criteria decision making techniques. Presently she associated with GITAM Institute of Technology, GITAM University, Visakhapatnam, India as assistant professor. Her areas of interest are operations research, optimization techniques, multi criterion decision making techniques etc.

**Amrina Kausar** is an Assistant Professor in the Department of Operational Research, Faculty of Mathematical Sciences, University of Delhi, India. She obtained her Ph.D., M. Phil. in Inventory Management and Masters Degree in Applied Operational Research from Department of Operational Research, University of Delhi, India. Her research interest lies in developing inventory models under varying trade credit and marketing policies. She has publication in journals like International Journal of Applied Decisions Science, Revista Investigacion Operacional, International Journal of Mathematical Science, OPSEARCH and presented papers at various international as well as national conferences.

**Iman Ghaleh Khondabi** received his B.S. degree in Industrial Engineering from Shomal University, Amol, Iran in 2008. He also received his M.S. in Industrial Engineering from Shahed University, Tehran, Iran in 2010. His research interests lie in the area of Probabilistic Processes and Queueing Theory, Multi Criterion Decision Making, Supply Chain Management and Facility Location. He was a member of 6sigma Academy of Iran and has published some technical papers in National Conferences and Journals.

**Mingyong Lai** is a professor (rector) in School of Economics and Trade of Hunan University. His current research includes international trade, economic growth and systems engineering. He has published lots of papers, some of which have appeared in top-tier journals in the domains of economics, systems engineering and logistics system. He has also published several books.

**Jun-Der Leu** is an associate professor of business and management in the National Central University, Taiwan. He received Ph.D. degree from the Technical University Berlin, Germany, and then joined the Infineon Technologies AG, Germany and the Germany Fraunhofer Institute. His research interests include global logistics management, business process management and ERP. Dr. Leu has published various papers in the field of business logistics management, business process management and ERP in the academic journal, such as J. Medical Systems, Intl. J. Technology Management, IJIE, OR Spectrum and others. Besides, he has presented several papers at ECIS, C&IE, IEEM, IJIE as well as the semiconductor industry forum SEMICON.
**Jun Liu** is a doctoral student at School of Economics and Trade of Hunan University in China. He holds M.Sc in international finance from Central South University of forestry and technology and B.Sc in Exploring Engineering from Central South University in China. His research interests are in international finance, stock market. He has published in journals such as Contemporary Finance & Economics.


**Puspita Mahata** is an Assistant Professor in the Department of Commerce, Srikrishna College, Bagula, Nadia, West Bengal, India. She received his B.Com. and M.Com respectively, from Vidyasagar University, Midnapore, West Bengal, India. Her research interest focus on Production Planning and Control, Supply Chain Management, Operations Research. She has published in journals such as *Mathematical and Computer Modelling*, *International Journal of Mathematical, Physical and Engineering Sciences*, among others.

**Mandeep Mittal** is a research scholar in the department of Operational Research, Faculty of Mathematical Sciences, University of Delhi, India. He has completed his M.Sc. (Applied Mathematics) in 2000 from IIT Roorkee. At present he is pursuing his Ph.D. in operational research. His area of interest is “Inventory Control and Management”. He has published one research paper in International Journal of Industrial Engineering Computations (IJIEC).

**G. B. Mund** is currently a Professor in the School of Computer Engineering, KIIT University, Bhubaneswar, India. He received his Master and Ph.D. in Computer Science from Indian Institute of Technology, Kharagpur, India. His areas of research interest include Program Analysis and Testing, Algorithms, Graph Theory and Discrete-time Queues. He is a life member of Indian Society for Technical Education, Orissa Mathematical Society and Orissa Information Technology Society. He has published research articles in *Information and Software Technology*, *Journal of Systems and Software*, *Computers and Mathematics with Applications*, *Journal of Systems Science and Complexity*, *Journal of Systems Science and Systems Engineering*, *Computers and Industrial Engineering*, etc.

**Behnam Nakhai** received his Ph.D. from the Claremont Graduate University in 1982 where he studied management under Peter F. Drucker, and is currently a Professor of Management at the Millersville University of Pennsylvania, USA. His current research interests include topics in service quality, quality costs, negotiations, and teams.
About the Contributors

Joao S. Neves received his Ph.D. in Social Systems Sciences from the Wharton School of The University of Pennsylvania in 1984, and is currently Professor of Management at The College of New Jersey, USA. His research interests include topics in service quality management, negotiations analysis, and teams. Professor Neves is the corresponding author and can be contacted at: neves@tcnj.edu.

Jagdish Pathak is an Associate Professor of Accounting and Systems in the Edmond and Louis Odette School of Business, University of Windsor, Windsor, Ontario.

Abirami Radhakrishnan is an Associate Professor of Management at Morgan State University, Maryland. She earned her Ph.D. in Management at Clemson University, South Carolina. She has published articles in various journals including European Journal of Operational Research, International Journal of Production Economics and Omega – The International Journal of Management Science. Her research interests include supply chain integration, use of information systems in supply chains, information sharing in supply chains, performance measurement systems, and adoption of information technologies.

T. V. S. Ramamohan Rao is an emeritus professor. He was a professor of economics at the Indian Institute of Technology, Kanpur from 1978 to 2007. He has a Ph.D from the University of Southern California, Los Angeles. His research publications are in the areas of organizational economics, industrial organization, and microeconomic theory. He is an author of ten books and over 150 papers in refereed journals.

Vaddi Venkata Sundara Kesava Rao is a Professor in Department of Mechanical Engineering at Andhra University. He was graduated from Osmania University in Mechanical Engineering and later obtained his post graduation in Industrial Engineering from the same university. He has more than 16 years of teaching experience. He received his PhD from Andhra University, Visakhapatnam. Other than teaching at both under graduate and post graduate level he served as a Maintenance Engineer in Steel Authority of India for 7 Years. Prof Kesava Rao so far guided 40 M.Tech students. He has 8 publications in various journals and one of his papers was awarded as best paper in journal of Industrial engineering.

Christopher G. Reddick is an associate professor and Chair of the Department of Public Administration at the University of Texas at San Antonio, USA. Dr. Reddick’s research and teaching interests are in public budgeting and information technology in public sector organizations. Some of his publications can be found in Government Information Quarterly, Electronic Government, the International Journal of Electronic Government Research and Public Budgeting & Finance. Dr. Reddick recently edited the two-volume book entitled Handbook of Research on Strategies for Local E-Government Adoption and Implementation: Comparative Studies. He is also author of the book Homeland Security Preparedness and Information Systems, which deals with the impact of information technology on homeland security preparedness.

Daniele Rigamonti, M.D., is a Professor of Neurosurgery and Radiation-Oncology at Johns Hopkins School of Medicine with clinical, teaching and research experience spanning over 2 decades. He is also the Director of the Radiosurgery Division and of the Center for CSF Diseases. He has published over 170 peer reviewed articles and 23 book chapters in neurosurgery or radiation-oncology with the focus on improving treatment of benign & malignant tumors, brain vascular malformations and hydrocephalus.
Michel Rixen joined NURC in 2003 as a senior scientist. His research interest is focused on operational oceanography/meteorology and climate change with a strong background in engineering, instrumentation, data processing and analysis, statistics, artificial intelligence (data mining, neural networks, genetic algorithms, fuzzy logic) and information technology.

Francisco Javier Santos-Arteaga is a Researcher in the Grinei and CelInTeC Groups in Economics and Innovation Policy at the Universidad Complutense de Madrid, Spain. He completed his PhD in Mathematical Economics at York University, Toronto, Canada, from where he also graduated with a Masters degree in Economics. Prior to this, he completed his Undergraduate studies in Economics and a Masters degree in Philosophy of Science at the Universidad de Salamanca, Spain. He was awarded grants from the Spanish Education and Culture Ministry and the European Union and also the Dean’s Academic Excellence Award from York University. His research interests include systemic risk, choice and information theory and he has several publications in mathematical and economic journals, such as, Canadian Applied Mathematics Quarterly, Structural Change and Economic Dynamics, and the International Journal of Applied Decision Sciences, among others.

Beela Satyanarayana is a Professor in Department of Mechanical Engineering at Andhra University. He has more than 30 years of teaching experience. He received his PhD from Indian Institute of Technology, Delhi, India. He did an extensive research work in various fields of mechanical engineering apart from developing a number of Software Packages in CAD/CAM. He had to his credit 94 papers published in various national and international conferences and journals and guided 12 Ph.D. theses. Also he had successfully undertaken several research projects funded by MHRD, DST and AICTE. At present he is acting as a Vice-Chancellor, Andhra University.

Jörg Schimmelpfennig is Professor of Theoretical and Applied Microeconomics at the Ruhr University, Bochum, Germany. His main research areas are economic regulation, railway economics and defense economics. He is a regular contributor at international conferences and has published in leading academic journals. He is a member of, inter alia, the Institute for Defense and Government Advancement, the U.S. Naval Institute, the Naval Heritage Foundation, the Army Records Society, the Great Western Society and the West Somerset Railway Association. He served as an advisor to renowned institutions and companies, as well as, regulatory authorities. He is also a contributor and reviewer on the arts. Dr Schimmelpfennig studied mathematics, physics and economics at the University of Bielefeld, Germany and obtained his Doctorate in Economics from the University of Osnabrück, Germany.

Phoebe Sharkey, is a Professor in the Department of Information Systems and Operations Management in the Sellinger School of Business, Loyola University Maryland. Dr Sharkey received a Ph.D in Systems Analysis and Economics from Johns Hopkins University, an MS degree from Georgetown University, and her Bachelor of Arts degree from Duke University. She has participated in numerous federal and state grants related to health services research including medical effectiveness research, the development of clinical practice guidelines, and severity of illness research. Some of her most recent publications relate to the evaluation of patient outcomes and cost effectiveness associated with new technologies in the diagnosis, treatment, and management of clinical conditions.
About the Contributors

V. ‘Sri’ Sridharan is a Professor of Operations Management and Department Chairperson of Management department at Clemson University, South Carolina. He earned his Ph.D. in Business Administration at the University of Iowa. He has very widely published several journal articles in leading journals such as *Decision Sciences, European Journal of Operational Research, Journal of Operations Management, Management Science, Operations Research* etc. His research interests include supply chain management and manufacturing planning & control.

Ebrahim Teimoury received his M.S. and PhD degree in Industrial Engineering from Iran University of Science and Technology in 1998. He is currently an Assistant Professor in the Department of Industrial Engineering in Iran University of Science and Technology. His research interests are in supply chain management and statistics. He has published in journals such as *European Journal of Operational Research, Production Planning and Control, Journal of Manufacturing Systems, International Journal of Advanced Manufacturing Technology, International Journal of Business and Management, Supply Chain Management: An International Journal, International Journal of Industrial Engineering and Production Management, Journal of Strategy and Management, Journal of Research in Interactive Marketing*.

R. Uthayakumar received his PhD from the Gandhigram Rural University, Gandhigram, Tamilnadu, India, in 2000. Now he is working as a Reader in the Department of Mathematics, Gandhigram Rural University, Gandhigram. He has done research in the area of Functional Analysis. His current research interests are primarily in the field of Optimisation and theory of fractal analysis. He is also interested in finding out the general mathematical model in the field of inventory management and supply chain. To his credit, he has published many research articles in the area of Inventory Management and supply chain in the reputed international journals. Moreover, he is guiding many scholars in the above said areas. He is a life member in Ramanujan Mathematical Society. He has received a best paper award for young Mathematicians from Ramanujan Mathematical Society. In addition to teach various courses, he delivered various invited lectures in many academic institutions.

M. Valliathal is an assistant professor in the Department of Mathematics, Chikkaiah Naicker College, Erode, Tamilnadu, India. She held the University Rank in MSc degree in Bharathiyar University, Coimbatore in 1989. She obtained her MPhil degree from Anna University, Chennai in 1990. She is doing PhD in the area of inventory control since 2007 in Mother Teresa Women’s University, Kodaikanal. Her research interests are in inventory control and modelling, optimisation techniques and their applications. She has published many research articles in reviewed International Journals including *Optimization Letters, The Int. J. of Advanced Manufacturing Technology, Int. J. of Applied Decision Sciences, Int. J. of Mathematics in Operational Research* and refereed conferences in these areas.

Navneet Vidyarthi is an Assistant Professor of Operations Management in the Department of Decision Sciences and MIS in the John Molson School of Business at Concordia University, Montreal, Canada. He holds a Ph.D. degree in Management Sciences/Operations Research from the University of Waterloo, an M.A.Sc. degree in Industrial Engineering from the University of Windsor, and a B.Tech. degree in Mechanical Engineering from the North Eastern Regional Institute of Science and Technology, India. His current research interests are in supply chain and logistics management with methodological interests in large-scale optimization, simulation-based optimization and meta-heuristics. He has published in *Transportation Science, IIE Transactions, International Journal of Production Research* and *Managerial Auditing Journal*. 
LaFang Wang is an Associate Professor of School of Economics and Trade of Hunan University. She has a bachelor’s degree in computer science and application and a Master degree in quantitative economics, and she received her Ph.D in international trade at School of Economics and Trade of Hunan University in 2008. She did postdoctoral research work at Tsinghua University from 2008 to 2010. Her current research interest includes CGE modelling and application, Resource and Environmental Economics, Logistics Management.

Rui Xie is a doctoral student at the College of Economics and Trade of Hunan University in China. He holds a Master of Science and Bachelor of Science from Hunan University in China. His research interests are in Operations Research, Input-Output Analysis and International trade. Xie Rui has published in journals such as Statistical Research, and International Economics and trade Research, among others.