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 is a Distinguished Research Fellow at Kennedy Space Center, Johnson Space Center, Naval Research Laboratory at Stennis Space Center, and Air Force Research Laboratory. He was recently honored with the prestigious Space Act Award by NASA. He holds a MBA, PMIS, and PhD in Management Information Systems and received his Post-Doctoral Diploma in Strategic Information Systems from the Wharton School at the University of Pennsylvania. He is the Editor-in-Chief of *Decision Analytics, International Journal of Applied Decision Sciences, International Journal of Management and Decision Making, International Journal of Strategic Decision Sciences, and International Journal of Enterprise Information Systems*. He has published several books and over one hundred and thirty research papers in academic journals such as *Information Sciences, Decision Sciences, Information Systems, Interfaces, Annals of Operations Research, Advances in Space Research, Omega, Information and Management, Knowledge-Based Systems, Expert Systems with Applications, European Journal of Operational Research, Journal of the Operational Research Society, Computers and Operations Research, Energy Economics, Applied Soft Computing, and Energy Policy.*

* * *

**William Acar** (Dipl. Ing.; M.A.Sc. Waterloo, CA; Ph.D. Wharton-Upenn, USA) is Professor of Management at Kent State University. The author of numerous published articles, Dr. Acar is the initial author of the CSM causal mapping method for the analysis of complex business situations and coauthored a book titled *Scenario-Driven Planning*. Currently, his method is being used to develop a computerized GSS for solving strategic and organizational learning problems. He has also developed measures of diversity better calibrated than the Herfindahl index and the Entropy function. He has published in journals such as: *Strategic Management Journal, Journal of the Association for Information Systems (JAIS), Journal of Management Studies, INFOR, Decision Sciences, OMEGA, Journal of Management, Information Systems, European Journal of Operational Research, International Journal of Operational Research, Systems Research, Behavioral Science, FUTURES, International Journal of Organizational Analysis, International Journal of Commerce & Management, International Journal of Technology Management, Strategic Change and INTERFACES.*
About the Contributors

**K. K. Aggarwal** is an Associate Professor in the Department of Operational Research, University of Delhi, India. He obtained his M.Sc. (Operational Research) and PhD in Inventory Management from the Department of Operational Research University of Delhi. His areas of research interests include inventory modeling, Financial Engineering and Supply Chain Management. He has published more than 25 research papers in many scholarly journals.

**Mohammed Altharwa** holds an MBA in Strategic Planning from the University of Liverpool, United Kingdom, graduated with a bachelor degree in economics from King Saud University in Riyadh, Saudi Arabia, Six Sigma Black Belt Certified from Motorola University. He is a deputy manager at Gulf Air Filters Factory Company in Saudi Arabia.

**Derrick S. Boone, Sr.** is an Associate Professor of Marketing at the Wake Forest University School 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 *European Advances in Consumer Research, International Journal of Research in Marketing, International Journal of Strategic Decision Sciences, Journal of Product Innovation Management, Marketing Letters, Psychology & Marketing,* and various conference proceedings.

**Douglas A. Druckenmiller** is an Associate Professor of Information Systems in the School of Computer Sciences at Western Illinois University. Dr. Druckenmiller received his PhD in Management Information Systems from Kent State University. His research focuses on collaborative systems and virtual teaming technologies. He has more than 35 years of collaboration engineering experience, and has published several journal articles in the area of group decision support and problem formulation in journals such as *The Journal of the Association of Information Systems (JAIS), The International Journal of Intelligence, Technology and Planning, FUTURES,* and *Journal of Information Systems Education.*

**Dimitrios Folinas** holds a Ph.D. in e-Logistics from the Department of Applied Informatics, University of Macedonia, Greece and is an expert in e-logistics, e-supply chain, logistics information systems and virtual organisations. He is an Assistant Professor at the Department of Logistics of ATEI-TH. and has held various teaching posts with the ATEI-TH and University of Macedonia. He is the authors and co-authors of over 120 research publications, and as a researcher, he has prepared, submitted, and managed a number of projects funded by National and European Union research entities.

**Veena Goswami** is 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 post doctoral fellow at Indian Institute of Technology, Kharagpur for two years. Her research interests include continuous- and discrete-time queues. She has published research articles in *INFORMS Journal of computing, Computers and Operations Research, RAIRO Operations Research, Computers and Mathematics with Applications, Computers and Industrial Engineering, Applied Mathematical Modelling, Applied Mathematics and Computation, International Journal of Applied Decision Sciences, Journal of Industrial and Management Optimization,* etc.
Chandra K. Jaggi. Professor and Head, Department of Operational Research, University of Delhi, India. His research interest lies in the field of Supply Chain and Inventory Management. He has published in various international/national journals. He has guided 7 Ph. D. and 18 M. Phil. in Operations Research. He is Editor-in-Chief of International Journal of Inventory Control and Management and Associate Editor of IJSAEM, Springer, Co-Editor / Reviewer-in-Charge of The GSTF JMSOR, and on the Editorial Board of the IJSOI, AJOR, International Journal of Enterprise Computing And Business Systems, Journal of Applied Sciences Research, Australian Journal of Basic and Applied Sciences. He is Fellow Member of International Science Congress Association since 2012. He was awarded Certificate for his Significant Contributions in Operation Management in 2009. In 2007, he was awarded Shiksha Rattan Puraskar for Meritorious Services, Outstanding Performance, and Remarkable Role.

Reena Jain is an Assistant Professor in Kalindi College of Delhi University, India. She Qualified National Eligibility Test in Mathematical Science and Masters Degree in 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 in fuzzy environment.

Kouroush Jenab is a senior member of IEEE, received the B.Sc. degree from the IE Department at Isfahan University of Technology (1989), the M.Sc. degree from the IE Department at Tehran Polytechnic (1992), and the Ph.D. degree from the Department of Mechanical Engineering at the University of Ottawa (2005). He served as a senior engineer/manager in auto and high-tech industries for 18 years. He joined the National Research Council Canada as a research officer where he participated in several international research projects. In 2006, he joined the Department of Mechanical and Industrial Engineering at Ryerson University, Toronto, as assistant professor. Currently, Dr. Jenab is Education Chair of Society of Reliability Engineering (SRE)-Ottawa Chapter. He has published several papers in international scientific journals based on his experiences in industries.

Nathan Lael Joseph is a professor of finance at Aston Business School, Aston University, United Kingdom. He obtained his PhD in Economics for Imperial College of Science, Technology, and Medicine, United Kingdom. Dr Joseph is also an Associate of the Chartered Institute of Management Accountants (ACMA) and sits on the editorial boards of a number of academic journals. His research interests include asset pricing, risk management, market efficiency, corporate governance, and share price impacts. Dr Joseph’s research has been published in a number of academic journals, including, Journal of Forecasting, Journal of Banking and Finance, and Management Accounting Research, and Accounting, Organizations and Society. He is currently a co-editor of the British Accounting Review.

K. Jyothsna is a doctoral student in the Department of Applied Mathematics, Andhra University, India. She received her M.Sc. degree in 2006 from Andhra University, India. Her research interests are stochastic modeling, queueing theory and its applications.
About the Contributors

Ikou Kaku is a Professor in Faculty of Environmental and Information Studies, Tokyo City University, Japan. He received a Ph. D. from the Department of Management Science and Engineering at Tokyo Institute of Technology in 1988. He has extensive experience in software design and optimization methods of manufacturing systems. He has worked for two Japanese venture companies eight years ago as technical CEO of Q&D programs. His teaching and research interests include industrial engineering, human factors, and operations management. His current research includes line-cell conversion, data mining techniques, and their application in inventory control and meta-algorithms for general multi-level lot sizing problems.

Nirmal S. Kalsi is an Associate Professor in the Department of Mechanical Engineering at Beant College of Engineering and Technology (a state Govt. establishment), Gurdaspur, Punjab, India. He received his Bachelor in Mechanical Engineering from Gulbarga University, Gulbarga, India, with university gold medal in the year 1993. Later, he did his Master’s in Mechanical Engineering from Punjab Technical University, Jalandhar, Punjab, India, and also did his Master of Business Administration (Operations Management) from Indira Gandhi National Open University, New Delhi, India. He has about 3 years of field and 17 years of teaching and research experience. His research interests are Machining, Cryogenic treatment, Tribology, Welding, Multi Criteria Decision Making, and Optimization. Currently, he is a research scholar at National Institute of Technology, Hamirpur, Himachal Pradesh, India. Kalsi has published in journals such as *Materials and Manufacturing Processes, International Journal of Advanced Manufacturing Technology, Advanced Materials Research, International Journal of Advanced Engineering Technology*, among others.

Aditi Khanna is working as an Assistant Professor in the Department of Operational Research, University of Delhi, India. She completed her Ph.D (Inventory Management) in 2010, M. Phil (Inventory Management) in 2004, and M.Sc. (Operational Research) in 2002 from the University of Delhi. She has eleven research papers published in various international/national journals including *IJSS, IJSOI, CJPAS, IJADS, IJPM, IJOR, IJMOR, IJSDS, Mathematics Today*, and *OPSEARCH*.

Alok Kumar is a Research Scholar in the Department of Operational Research, Faculty of Mathematical Sciences, University of Delhi, India. He obtained his Post Graduation in Operational Research from the Department of Operational Research, University of Delhi. Currently, he is pursuing his Ph.D in Operational Research from University of Delhi. His area of research interest is developing mathematical models in the field of Inventory Management. He has published numerous research papers in different scholarly journals of international repute.

Salim Lahmiri is a research associate with the department of computer science of the University of Quebec at Montreal (UQÀM) in Canada and is full professor of quantitative methods at ESCA School of Management, Casablanca, Morocco. He holds a Ph.D degree in Cognitive Informatics from the department of computer science of UQÀM and a master of engineering (M. Eng) from the department of electrical engineering of École de Technologie Supérieure, Montreal, Canada. His research interests are in pattern recognition, intelligent decision systems, and time series analysis and forecasting.
Baoying Lai is a senior lecturer in Finance at the Royal Docks Business School, University of East London, United Kingdom. She obtained her PhD in Finance from Aston University, United Kingdom. She also holds an MSc in Financial Management and Control. Her research interests include market efficiency, pricing-to-market, and commodity price behavior. Her research has appeared in the Applied Financial Economics journal.

P. Vijaya Laxmi is an Assistant Professor in the Department of Applied Mathematics, Andhra University, Visakhapatnam, India. She received her M.Sc. and Ph.D. degrees from Indian Institute of Technology, Kharagpur, India. Her main areas of research interest are continuous- and discrete-time queueing models and their applications. She has publications in various Journals like Operations Research Letters, Queueing Systems, Applied Mathematical Modelling, International Journal of Applied Decision Sciences, Journal of Industrial and Management Optimization, International Journal of Strategic Decision Sciences, etc.

Yanzhen Li is a Quality Manager at Mimeo.com Inc. in Newark, New Jersey. He received his BS in Engineering Management from Tianjin University, an MS in Industrial Engineering, an MS in Statistics, and a PhD in Industrial Engineering from the University of Tennessee, Knoxville. He has previously worked for La-Z-Boy, Sea Ray Boats, and H&V Collision Center in the quality management and process improvement arena. He is a professional member of IIE, ASQ, SME, and INFORMS.

Sarla Pareek is a Professor, Department of Mathematics and Statistics, Banasthali Vidyapith, India. She is life member of various academic bodies. She has published 20 research articles in various reputed journals, and guided 6 M. Phil and 3 Ph.D. students. Her area of research includes Inventory Management, Demography, and Applied Statistics.

Rapinder S. Sawhney is the Weston Fulton Professor of Industrial and Systems Engineering at the University of Tennessee, Knoxville. He received his BS and MS in Industrial Engineering, and his PhD in Engineering Mechanics from the University of Tennessee, Knoxville. He leads the Center for Productivity Innovation at the University of Tennessee, Knoxville. His research has been sponsored by over 75 companies, the National Science Foundation, Oak Ridge National Laboratory, Department of Energy, Defense Logistics Agency, National Nuclear Security Administration, among others. He has won numerous awards for his scholarly efforts. He is a member of IIE, SME, and INFORMS.

Rakesh Sehgal is a Professor in the Department of Mechanical Engineering at National Institute of Technology (Institute of higher learning-Government of India), Hamirpur, Himachal Pradesh, India. He obtained his M.Tech. in Design of Mechanical Equipment from Indian Institute of Technology, Delhi, India, and received his Doctorate in Mechanical Engineering from Kurukshetra University, Kurukshetra, India, in the year 2001. Dr. Sehgal has also completed his Post-Doctorate under PDF Award scheme of University Grants Commission, Ministry of Human Resource Development, Govt. of India. His research interest includes Tribology, Reliability modeling, Machining and Optimization of production systems. He has two years of field and 25 years of teaching and research experience. He has published in journals

**Anuj Sharma** is a Junior Research Fellow (University Grant Commission) pursuing his Ph.D. in Inventory Management from the Department of Operational Research, Faculty of Mathematical Sciences, University of Delhi, India. He obtained his M.Phil. and Masters Degree in Mathematics from Department of Mathematics, Chaudhary Charan Singh University Meerut, India. His research interest lies in developing inventory models under varying trade credit and marketing policies in fuzzy environment.

**Ritu Sharma** is a Research Scholar in the Department of Mathematics and Statistics, Banasthali Vidyapith, India. She completed her M. Phil (Mathematical Sciences) in 2010 from Banasthali University. At present, she is pursuing her Ph.D. in Operational Research. Her area of interest is Inventory Management.

**Vishal S. Sharma** is an Associate Professor of Production Engineering in the Department of Industrial and Production Engineering at Dr. B.R. Ambedkar National Institute of Technology (deemed University-Government of India), Jalandhar, Punjab, India. He obtained his Bachelor in Production Engineering (with distinction) from Shivaji University, Kolhapur, India, in 1992 and Master in Production Engineering from Punjab University, Chandigarh, India in 1998. He received his Doctorate in Mechanical Engineering from Kurukshetra University, India in 2005. Further, he completed one year (2009–2010) Post-Doctoral fellowship from Ecole Nationale Supérieure d’Arts et Métiers (ENSAM), France. He has three years of industrial and 17 years of teaching and research experience. He has contributed more than 40 number of research papers at the National/International levels in the area of machining, industrial automation, and optimization of production systems.

**Mariya Sodenkamp** is the director of Data and Decision Analytics Lab at the University of Bamberg in Germany and a senior researcher at the Bits to Energy Lab, a joint research initiative of ETH Zürich, University of Bamberg and University of St.Gallen. She holds a Ph.D. in Business Information Systems from the University of Paderborn, a M.Sc. in Computer Science and a B.Sc. in Economics. Her research interests are decision support, data analytics, multi-criteria analysis, uncertainty modeling and consensus construction. Dr. Sodenkamp has several publications in referred scholarly journals and been a visiting researcher at the Katz Graduate School of Business in Pittsburgh.

**R. Sridharan** is currently Professor and Head of the Department of Mechanical Engineering at the National Institute of Technology Calicut, Kerala, India. He received his PhD in 1995 from the Department of Mechanical Engineering at the Indian Institute of Technology, Bombay, India. His research interests include simulation modelling and analysis of decision problems in job shop production systems and flexible manufacturing systems.
Selva Staub has extensive experience in the private and public sectors. She started her career as an assistant professor in her native country, Turkey. After relocating to the United States, Dr. Staub worked as a Project Manager for overseas operations in Consumers Energy (Jackson, Michigan). Also in Michigan, Dr. Staub was a Regulatory Compliance Officer at Eastern Michigan University, and Co-Owner and Vice President of Operations at InterConnect of Ann Arbor, a software development company. In 2004, the Staubs moved to North Carolina, where Dr. Staub worked for seven years in the NC Community College System, specializing in Customized Industry Training. She also worked as a Small Business Center Director. In September 2011, Dr. Staub and her family relocated to Istanbul, Turkey. She is currently an Assistant Professor at Haliç University, where she teaches Contemporary Developments in Management, Organizational Development, and Human Resource Management at the undergraduate, masters, and doctoral levels.


Leena Suhl is a professor of Business Information Systems, with an emphasis in Operations Research and Decision Support, at the University of Paderborn. She holds a M.Sc. degree in engineering, a Ph.D. from Helsinki University of Technology, Finland, and habilitated in Berlin University of Technology. Research in the working group of Prof. Suhl focuses on decision support systems, optimization and simulation systems for business planning processes as well as applications in supply chain planning, transportation, traffic, and logistics systems. Dr. Suhl has worked as a visiting researcher at IBM Thomas J. Watson Research Center, Yorktown Heights, USA, and has been a visiting professor in Finland, the USA, China, and Poland. She is the coordinator for numerous projects funded by DFG, EU, BMBF, NRW, and industry as well as a member of the executive board of Gesellschaft für Operations Research (GOR). She has published over 100 reviewed articles and is member of the editorial board of several international journals.

Anandakuttan B. Unnithan is an Associate Professor in the area of Marketing Management and Chairperson Post Graduate Programmes at Indian Institute of Management Kozhikode, Kerala, India. He has also served as the Director of SNGIST – a postgraduate college in Kerala, India. His chosen areas of specialisation are marketing research and applications of behavioural sciences in marketing. He is an Open Source and Free Software Enthusiast.
G. Varaprasad is an Assistant Professor in the Department of Mechanical Engineering, National Institute of Technology Calicut, Kerala, India. His areas of interest include consumer behaviour, electronic banking, credit cards, mobile banking, and marketing research.

Philip D. Weinsier is currently an Associate Professor and EEET Program Director at the Bowling Green State University-Firelands. He received his B.S. degrees in Physics and Industrial Education from Berry College, (1978); M.S. degree in Industrial Education, and Ed.D. degree in Vocational/Technical Education from Clemson University (1979 and 1990, respectively). He is currently the editor of the International Journal of Modern Engineering and the International Journal of Engineering Research and Innovation, and Editor-in-Chief of the Technology Interface International Journal. He is a Fulbright Scholar, a lifetime member of the International Fulbright Association, and a member of the European Association for Research on Learning and Instruction since 1989.

Joseph H. Wilck, IV is an Assistant Professor of Engineering at East Carolina University. He received his BS and MS in Industrial and Systems Engineering from Virginia Tech, and his PhD in Industrial Engineering and Operations Research from Pennsylvania State University. His research interests include applied network optimization and engineering education. Dr. Wilck is a registered Professional Engineer (PE), volunteers as the Vice President of Student Development for the Institute of Industrial Engineers (IIE), and is a member of INFORMS, INCOSE, IEEE, APICS, ASEM, and ASEE. His research has been funded by NSF, DOE, NNSA, ORNL, and local manufacturing companies.