About the Contributors

**Zongwei Luo** is an associate professor in South University of Science and Technology of China. Previously he was a senior researcher at the E-business Technology Institute, The University of Hong Kong (China). He is the founding Editor-in-Chief of the International Journal of Applied Logistics and serves as an associate editor and/or editorial advisory board member in many international journals. Dr. Luo’s recent interests include applied research and development in the area of big data and network computing; service science and computing; innovation management and sustainable development; technology adoption and risk management; and e-business model and practices, especially for logistics and supply chain management.

***

**Mohamed-Amine Abidi** received his engineering degree in computer science in September, 2012 from the University of Manouba, Tunisia. He is currently pursuing a Ph.D. degree in the virtual reality engineering (virtual reality and simulation) at the National Engineering School of Saint-Etienne (ENISE), France. From 2012 to 2015, he works as a lecturer at ENISE. He is the author of two papers and co-author of one book.

**Marco Antonio Arteaga-Pérez** was born in Huejutla de Reyes, Hidalgo, Mexico, on September 9, 1967. He received the B.S. degree in Computer Engineering and the M.S. degree in Electrical Engineering from the Universidad Nacional Autónoma de México (UNAM), in 1991, and 1993, respectively. In 1998, he received the Dr. Ing. degree from the Gerhard-Mercator University, in Duisburg, Germany. Since 1998 he has been a Professor in the Department of Electrical Engineering, of the School of Engineering at the National University of Mexico. His main research interests are robotics and control.

**Patrick Baert** received his engineering degree in Mechanical engineering from the National Engineering School of Saint-Etienne (ENISE) in June 2004. He received his master degree with specialization in control in June 1996. He received the researcher engineer degree in 2007. He worked mainly on aspects of powder metallurgy as part of implementation of thick coatings and additive manufacturing modeling. Since 2010, he has been in charge of the development of virtual reality activities in the LTDS lab and more specifically the engineering research group, Perception. He is the co-author of about five research articles and one book.
About the Contributors

**Saikat Kumar Basu** did his Masters in Botany (Specialization: Microbiology) from the University of Calcutta (India) and in Agricultural Studies from the University of Lethbridge (Canada). Currently he is finishing his doctoral studies in Biomolecular Sciences at the Department of Biological Sciences, University of Lethbridge. Saikat received the Graduate Citizenship Award (2009), the Alberta Graduate Student Award (2009), the CSA Best Article Award (2010), the SAEA Volunteer Award (2011), the AFC Celebrate Agriculture in Alberta Photo Award (2012) and the ASPB Peggy Thompson Publication Award (2014). His practice areas include Bioengineering and Cell Biology. Saikat enjoys traveling, soccer, cricket and photography in his leisure time.

**Redha Benhadj-Djilali** is a Chartered Engineer, Member of the Institution of Mechanical Engineers and Member of the British Computer Society. He specialised in CAD/CAM/CAE, engineering design and manufacturing automation and has been at Kingston University since 1994. He worked in the manufacturing industry before starting his academic career at Kingston University where he first held a research fellowship, then a position as a lecturer. His research project was based on the development of a pneumatic array of air jet proximity to tactile sensing device for manufacturing parts identification. He also held a research fellowship for more than two years, during that time he was involved in promoting research in manufacturing automation and assembly. Dr Redha Benhadj-Djilali also carried out further research in the application of the tactile sensing device to monitor slip and gripping force to assist robot part handling and assembly. He is on the editorial Boards of three international Journal, Sensor Review, Industrial Robots and Assembly Automation and review other international journals/conferences.

**Andrea Bisson** was born in 1989 in Noventa Vicentina, Vicenza, Italy. He obtained his Bachelor’s and Master’s degrees in Computer Engineering in 2012 and 2014, respectively, from the University of Padua. He has developed his master thesis work at the Autonomous Intelligent System Laboratory under the supervision of Prof. Emanuele Menegatti. The manuscript is entitled: “Development of an Interface for Intuitive Teleoperation of Comau Manipulator Robots using RGB-D Sensors”. He has contributed as co-author to a number of scientific papers regarding robotics and teleoperation. Now, he is currently working as Software Engineer at Comau S.p.A - Robotics since November 2014.

**Genci Capi** received the B.E. degree in mechanical engineering from the Polytechnic University of Tirana, Tirana, Albania, in 1993, and the PhD degree in information systems engineering from Yamagata University, Yamagata, Japan, in 2002. From 2002 to 2004, he was a Researcher in the Department of Computational Neurobiology, Advanced Telecommunications Research Institute International (ATR), Kyoto, Japan. In 2004, he joined the Department of System Management, Fukuoka Institute of Technology, as an Assistant Professor, and in 2006, he was promoted to Associate Professor. He is currently a Professor in the Department of Electrical and Electronic Systems Engineering, University of Toyama, Toyama, Japan. His current research interests include intelligent robots, multi-robot systems, humanoid robots, learning, and evolution.

**Pierre Chevaillier** is a researcher in computer science at the Lab-STICC, UMR CNRS 6285. He is also a professor in computer science at the Department of Software Engineering at ENIB (Ecole Nationale d’ingénieurs de Brest). Since 2008 to 2011, he was the director of the CERV (European Center for Virtual Reality). Since 2014, he is the director of research at ENIB. He is the author or co-author of many research articles and some books.
Sumukh Deshpande completed his Bachelor in Bioinformatics from VIT, Vellore, India in 2008 and Masters of research in Bioinformatics from The University of Glasgow, UK in 2009. Thereafter he worked as a Research Assistant in University of Calgary, Canada. Thereafter he joined Jaivik Data Consulting as a Bioinformatics Research Associate. He also worked as Bioinformatics Scientist in Premier Biosoft. Currently he is working as Lecturer and Bioinformatician in Molecular Diagnostics and the Personalised Therapeutic Unit in the University of Hail. His areas of research interests include Next-generation sequencing data analysis and statistical analysis of whole genome and exome data using bioinformatics tools and databases.

Yudi Fernando is a Senior Lecturer in Operations Management at the Graduate School of Business, Universiti Sains Malaysia (USM). He received his MBA and PhD from the School of Management at USM also holds a Bachelor’s degree in Business and Management from UNAND, Indonesia. Dr. Yudi also worked for several years in the electronics industry. Thus far, he has published in several journals such International Journal of Services and Operations Management, International Journal of Applied Logistics, Food Control, International Journal of Information Management, International Journal Logistics Systems and Management, International Journal of Operations and Supply Chain Management, International Journal of Productivity and Quality Management, International Journal of Value Chain Management, Benchmarking: An International Journal, and so on.

Valentina Ferrara born in 1983 in Turin (Italy) studied Electronic and Computer Science Engineer at Politecnico di Torino and Université de Technologie de Compiègne obtaining a Double-Degree in 2011 with a Final Work made at Commissariat à l’énergie atomique et aux énergies alternatives de Fontenay-Aux-Roses (France) on “Development of a Real-Time Application for the collection and the localization of radiation data for the remediation of contaminated soils”. After several years of experience in software and firmware development in automotive field, Ferrara obtained a Second level Master’s Degree in Industrial Automation from the Politecnico di Torino in 2013. Ferrara has been working as software developer for Comau Robotics since 2012.

Nikolaos A. Fountas received his Mechanical Engineering Diploma from the School of Pedagogical & Technological Education (ASPETE) of Athens, Greece in 2004 and his MSc degree from Kingston University in 2008. Since 2004, he has worked as a design and manufacturing engineer for several industries, mainly in the fields of CNC Programming, Machine Tools / Manufacturing and Product Design. Currently, he is a Ph.D. student at Kingston University-UK (engineering faculty) and he works as Laboratory Assistant under contract, teaching CNC Machine Tools - CNC Programming, Materials Processing Technology and CAD/CAM/CAE Systems in the Department of Mechanical Engineering Technology Educators, School of Pedagogical & Technological Education (ASPETE), Athens, Greece. His main research interests fall into the areas of CNC Programming, CAD/CAM/CAE Systems and Software Automation, Sculptured Surface Machining and Optimization through Artificial Intelligence / Soft Computing Techniques.

Santiago Garrido received the B.S. degree in mathematics, a B.S. degree in physics science, and a Master’s degree in computer science, robotics and automation, and a Ph.D. degree from the Universidad Carlos III de Madrid (UC3M), Madrid, in 2000. In 1997, he joined the Department of Systems Engineering and Automation, UC3M, where he works as Associated Professor. He has been involved in several
About the Contributors

mobile robotics projects. His research interests include mobile robotics, mobile manipulators, environment modeling, sensor based robot motion, path planning and mobile robot global localization problems.

Barbara Lyonnet is an associate professor at the University of Nantes in LEMNA Laboratory, France. She has a Ph.D. thesis on industrial systems. Her research interests focuses on lean manufacturing, production processes and logistics. She has published in the field of engineering applications, risks, critical resources and Lean manufacturing. She is the author or co-author of many research articles and some books.

Anas Mathath is a student at the Graduate School of Business, Universiti Sains, Malaysia (USM), pursuing a Master’s of Business Administration (International Business). He holds a Bachelor’s in Commerce (Information Technology) from Bharathiar University, India.

Emanuele Menegatti is Associate of University of Padua. His research interests are in the field of Robot Vision. In particular, he has been working on omnidirectional vision, on distributed vision systems, on 2D and 3D industrial robot vision, and on RGB-D vision algorithms for mobile robots. Currently, Menegatti is teaching “3D Data Processing” and “Computer Architecture” and “Educational Robotics for teachers”. Menegatti was Coordinator of the European project Thermobot and Local investigator for the European Projects 3DComplete and FibreMap, and Focus. He has been Principal Investigator of several other research grants. In 2005, Menegatti was a founding partners of two spin-off of the University of Padua: IT+Robotics srl and EXiMotion srl. Menegatti published more than 30 journal papers, over 120 conference papers, 2 books, 4 book chapters, and two industrial patents.

Stefano Michieletto is a post-doc fellow at the Intelligent Autonomous Systems Laboratory (IAS-Lab) of the University of Padua, Italy. He received his Ph.D. in Science and Technology Information in 2014 from the Department of Information Engineering (DEI) of the University of Padua under the supervision of Prof. Emanuele Menegatti. He obtained his Bachelor and Master degrees in Computer Engineering in 2005 and 2008, respectively, from the University of Padua. He won a research grant regarding the study of probabilistic models for convey physiological signals to robot motions. His research interests are also in the field of machine learning, robot programming by demonstration, manipulator robots, and human-robot interaction using RGB-D sensors.

Zulkifli Mohamed received a Diploma and a Bachelors in Engineering degree from Universiti Teknologi MARA, Malaysia, in 2000 and 2003, Master in Engineering from Universiti Teknologi Malaysia, in 2006, and PhD in Engineering from University of Toyama Japan. He has been working as Maintenance Engineer for 2 years in Ameraal Beltech Sdn Bhd and currently, he worked as a Senior Lecturer in Faculty of Mechanical Engineering, Universiti Teknologi MARA, Malaysia His research interests include robot development, vision system, mechatronic design, mobile humanoid robots and intelligent robot. He is a graduate member of IEEE, IEEE-RAS, The Institution of Engineers Malaysia and Board of Engineers Malaysia.

Luis Moreno received the B.S. degree in automation and electronics engineering and the Ph.D. degree from the Universidad Politécnica de Madrid, Spain, in 1984 and 1988, respectively. From 1988 to 1994, he was an Associate Professor with the Universidad Politécnica de Madrid. In 1994, he joined
the Department of Systems Engineering and Automation, Universidad Carlos III de Madrid (UC3M), Madrid, where he is Full Professor. He has been involved in many mobile robotics projects. His research interests include mobile robotics, mobile manipulators, environment modeling, path planning, and mobile robot global localization problems.

**Pooja Purohit** completed her Bachelors in Bioinformatics from Amity University, Noida, India in 2010 and Masters of Technology in Biotechnology from RGPV, Bhopal, India in 2013. After completing her B. Tech she worked as Research Assistant in Maulana Azad National Institute of Technology (MANIT) from 2010 to 2011. After her postgraduation, she also worked as Lecturer in Jawaharlal Nehru P.G. College, Bhopal. Currently she is working as Lecturer in Almas International, Hail. Her areas of interest are in protein structure analysis and docking.

**Zhuang Qixing** is a graduate of the University of Hong Kong in the Department of Computer Science. He has a B.Eng. in Software Engineering, from Beijing Normal University, Zhuhai, 2011. He has written total lines of code exceeding 70,000. While in Beijing Normal University, Zhuhai, he received numerous awards, including National Scholarship (0.1%, 2010), the Top Ten Outstanding Graduates of University (0.2%, 2011), the Special Grade Scholarship of University (2010), the Outstanding League Cadre of University (2010), and the First Prize in ACM-ICPC of University (2010). Mr. Zhuang has diversified working and project experiences. He was the Client Development Engineer of MMORPG (intern) in LineKong Entertainment Technology Co., Ltd. (Zhuhai), from 2010.11-2011.2. He was responsible for Network Game Development - Tank War, 2010.7-2010.10, where he was focused on design and implementation of class diagram and used the TCP/IP and IO completion Port with C++, Winsock and Lua configuration. He worked on Game Software Development - Capture the Goldfish, 2009.8-2009.10, where he designed class diagram and reconstructed the last game. He added the communication between computer and control device. While working on Game Software Development - Whack-a-mole, 2009.7-2009.8, he designed class diagram and implemented it with C++, DirectX9 and XML configuration.

**Fabrizio Romanelli** earned his Master Degree with full marks in 2005 as an Information-Automation Engineer, from the University of Rome – Tor Vergata. He joined Comau in 2007 as software engineer, working in the software motion-control research and development group of the Robotics Business Unit. He has experience in robot-machine interaction, obstacle avoidance, space management and robot-machine haptic interfaces, in the context of SMErobot, SMErobotics, Robofoot, X-Act and other European research projects. His experience in the system software, robotics and automation has been developed in the context of several internal projects. His technical experience ranges from real-time operating systems (VxWorks, Linux RT) on embedded systems to industrial robotics (motion and trajectory planning, external sensors integration, open control systems).

**Arsalan Safari** is an Assistant Professor at Qatar University, and a Research Affiliate at Massachusetts Institute of Technology. His research interests include worldwide innovation, patenting, entrepreneurship and operations management. He has completed his postdoctoral program at MIT, Sociotechnical Systems Research Center in the USA where he focused on innovation, enterprise architecture and transformation. He received his Ph.D. in management sciences from the University of Waterloo, Canada and his master
About the Contributors

Himanshu Shee is currently a Senior Lecturer specialising in supply chain & logistics management and SAP-APO module. He has had a successful teaching experience across Australia, China, Singapore, Kuala Lumpur, Fiji and India. Dr Shee has a good track record of research, with publications and higher degree research supervision with publication in many peer-reviewed journals. He has presented papers in POMS, EUROMA, Academy of Management, ANZAM-OM and IS-DSI India. He authored a book on Firm Competitiveness: Case of software firms. He supervised many Ph.D. & DBA research scholars in the supply chain area. With expertise in SPSS and SEM, his broad area of supervision includes: sustainable supply chains; the S&OP process; logistics outsourcing; the buyer-supplier relationship; and Australian automotive supply chain management. Dr Shee has been appointed as an Associate editor and reviewer for the International Journal of Global Business and Competitiveness (IJGBC), and as a reviewer for supply chain management, an international journal, journal of business review and conference papers. Recently he was nominated to the International Advisory Board as a member in ISDSI-India for 2015. He has chaired many technical sessions at ISDSI-India and IIM-Bangalore conferences.

Constantinos Stergiou received his Mechanical Engineering degree from the National Technical University Athens and his Ph.D. from the Technische Universität Darmstadt. He is a Professor at Piraeus University of Applied Sciences and is the Head of the Mechanical Engineering Department. Since May 2013, he has been appointed as an Honorary Professor at Kingston University London - Faculty of engineering in design and manufacturing at the University of Western Ontario (Western University), Canada. He holds a bachelor of science in industrial engineering, and he is a Certified Six Sigma Black Belt from American Society for Quality (ASQ). Dr. Safari worked for nearly six years in the banking industry in senior levels in Canada.

Pablo Sanchez-Sanchez was born in Puebla, Mexico, on January 2, 1976. He received the B. S. degree in Electronic Engineering from Technological Institute of Puebla in 1999 and the M. S. degree in Automation and Control from Autonomous University of Puebla in 2005. He is currently pursuing the Dr. degree in Electrical Engineering at National University of Mexico. Since 2006, he is a Professor at the Faculty of Electronics at the Autonomous University of Puebla. His main research interests are robotics, control and design.

Vijay Sangam developed professional expertise in the areas of creating and implementing lean and agile Supply Chain in manufacturing and trading environments. In order to align Supply Chain objectives with Organisational Goals, Vijay developed skills in creating a Core Competency Strategy to identify the core functions to saving Costs and enhancing Productivity and at the same time researching the outsourcing of non-core functions from Victoria University. In the globalised economy, maximization of Business Growth (market share), EVA and the maximization of Operating Profit after Capital Charge are key priorities. Vijay acquired the unique skills of the mapping of business processes to develop a gap analysis and to find solutions to maximize sustainable benefits in the areas of Cost and Velocity. Further, he also worked as a Lecturer at Massey University, New Zealand, teaching Logistics and Supply Chain Management to the post graduate students and supervising research at PG level. Vijay’s expertise lies in identifying opportunities to save costs; optimize resources; reduce lead time to market (B2C & B2B); align demand with supply and reengineering logistics and supply chain business processes. Vijay worked in IT, Electronics, 3PL, Consulting, Teaching, Retail, FMCG, Automotive, and Resources Industries.
of Science, Engineering & Computing. In 2002, he organized and is the Academic Director of the MSc in Advanced Industrial and Manufacturing Systems, a collaboration with the Faculty of Science, Engineering & Computing of Kingston University London. He has professional experience at technical bureaus and research projects. He lectures in Engineering Design and Computer Aided Design, has written 8 books, most of them are the official Handbooks given out to engineering students at various Universities and TEI across Greece. He has organized training programs for manufacturing plants in countries both in and outside Europe. He has over 65 published articles in international Journals and Conferences, is supervising 4 Ph.D. students and has supervised 65 MSc theses, 25 BSc theses and 50 industrial experience semester students.

Jiang Tao is a graduate from the University of Hong Kong. He received his Bachelor of Science in Opto-Electronic Information Science and Technology from Harbin Institute of Technology (HIT). He is familiar with the Electric Circuit, the Integrated Electronic Technique, the Basic Electronic Technique, the Technology of Computer Organization, the Principle and Application of Single-Chip Computer, the Digital Signal Processing (Bilingual Teaching), the Principle of Automatic Control, Applied Optics, Physical Optics, Information Optics, Optoelectronic Instrument Design, Design and Equipment of Optoelectronic Mechatronic, Optical Fiber Communication Technology and Digital Image Processing. He has worked on various assignments of railway-related technologies, including installation and debugging, organization and analysis of the Safety Information Transmission System in the Baoji-Chengdu Line Post-Disaster Reconstruction Program. After completion of the project, he moved to the research and development department, and is responsible for programming Test Software using C language, serial debugging and CAN bus data transfer.

Rosario Toscano received his engineering degree from the Conservatoire National des Arts et Metiers (CNAM) in March 1994. He received his master degree with specialization in control in June 1996. He received the Ph.D. from the Ecole Centrale de Lyon in November 2000. He received the HDR degree from University of Jean Monnet of Saint-Etienne in December 2007. He is currently a professor at the Ecole Nationale d’Ingenieurs de Saint-Etienne (ENISE). He is the author or co-author of about sixty research articles and five books.

Nikolaos M. Vaxevanidis is Professor of Manufacturing Technology in the Department of Mechanical Engineering Technology Educators, School of Pedagogical & Technological Education (ASPETE), Athens, Greece and Director of the Laboratory of Manufacturing Processes & Machine Tools (LMPPro-MaT) in the aforementioned Department. He received Diploma (1985) and Ph.D. (1996) in Mechanical Engineering from National Technical University of Athens, Greece. He served as Lecturer in the Hellenic Air Force Academy (2000-2006) and he was also assoc. Professor under contract (2003-2010) in the Department of Mechanical Engineering/University of Thessaly, Greece. He is a member of ASME, ASM and ASQ. His scientific interests include manufacturing technology, surface engineering, tribology and quality management. He has published more than 100 papers on these topics in International Journals and International Conference Proceedings. He is member of the Editorial Board of the Int. J. of Machining and Machinability of Materials and the Int. J. of Manufacturing, Materials, and Mechanical Engineering.
About the Contributors

**Liu Yang** is a graduate of the University of Hong Kong (HKU) in the Department of Computer Science. In HKU, he participated in a project of a cloud based service platform for media integration and ads distribution applying gamification in a mobile device. The platform supports flexible interactions and collaboration among different participants to distribute media and ads, applying gamification largely to enhance user experience and engagement. With the assistances of Cloud, Augmented Reality and Layering, this platform can save computation and storage of mobile device as well as game resource construction. His thesis gave examples to demonstrate the practical value of this service platform (i.e., digital city touring). It can also be extended to other areas, such as e-learning. The future work of Mr. Liu is to investigate the areas where he can excellently apply this service model to achieve both system and business requirements such as income revenue.

**Feng Yi** is a graduate of the University of Hong Kong in the Department of Computer Science. He received his Bachelors of Science in Applied Computer Science and Computer Science from Northern Arizona University and Lanzhou University of Technology. He is proficient in Microsoft Office (Word, Excel, Access), has experience of User Interface design of Web-based applications, and is familiar with Database Management and design. He possesses an exceptional understanding of application architecture design and understands techniques of working communication. Mr. Feng is proficient in communication with clients. He received awards of Outstanding Student Leader from 2004 to 2007—5 times.