

Lecture Notes in Engineering and Computer Science

IMECS 2017

International MultiConference of
**Engineers and Computer
Scientists 2017**

Volume II

Hong Kong
15-17 March, 2017

S. I. Ao
Oscar Castillo
Craig Douglas
David Dagan Feng
A. M. Korsunsky (Eds.)

IA ENG

International Association of Engineers

ISBN: 978-988-14047-7-0
ISSN: 2078-0958

International MultiConference of
Engineers and Computer Scientists

IMECS 2017

15-17 March, 2017

The Royal Garden Hotel, Kowloon, Hong Kong

Organizing Association:

IAENG

International Association of Engineers



International Association of Engineers

ISBN: 978-988-14047-7-0

ISSN: 2078-0958

Proceedings

International MultiConference of Engineers and Computer Scientists 2017

Volume II

The papers in the book consist of the proceedings of the conference mentioned above. They reflected the authors' opinions and their inclusion in the publication does not necessary constitute endorsement by the conference committees and the International Association of Engineers. The publication ethics and publication malpractice statement of our conference is available in the conference web page:
http://www.iaeng.org/IMECS2017/doc/publication_ethics.html

Copyright and Reprint Policy:

Abstracting is permitted with credit to the source. Libraries may photocopy the articles for private use of patrons in this proceedings publication. Copying of individual articles for non-commercial purposes is permitted without a fee, provided that credit to the source is given. For other copying, reprint, or republication permission purposes, permission from the publisher should be obtained.

Publisher:

Newswood Limited
International Association of Engineers

ISBN: 978-988-14047-7-0
ISSN: 2078-0958 (Print)
ISSN: 2078-0966 (Online)

Additional copies may be ordered from:
Newswood Limited
Unit 1, 1/F, 37-39 Hung To Road, Hong Kong



International Association of Engineers

Preface

The International MultiConference of Engineers and Computer Scientists has been organized by the International Association of Engineers (IAENG), a non-profit international association for the engineers and the computer scientists. The IMECS 2017 takes place in The Royal Garden Hotel, Tsimshatsui, Kowloon, Hong Kong, 15-17 March, 2017.

The focus of our conference is on the frontier topics in the theoretical and applied engineering and computer science subjects. The IMECS conferences have been serving as good platforms for our members and the entire engineering community to meet with each other and to exchange innovative ideas. The conferences have also struck a balance between theoretical and application development.

Our IMECS 2017 has been organized with conference committees that have been formed with over three hundred committee members who are mainly research center heads, faculty deans, department heads, professors, and research scientists from over 30 countries. The conferences are truly international meetings with a high level of participation from many countries.

The response that we have received for the multiconference is excellent. The IMECS 2017 has attracted more than six hundred participants from over 40 countries. All submitted papers have gone through the peer review process. The summary of submissions and accepted papers in IMECS 2017 is as followed: total number of submissions reviewed: 649; total number of accepted papers: 331. And the overall acceptance rate in our multiconference is 51%.

IMECS 2017 Multiconference Committee
International Association of Engineers
IMECS 2017, Hong Kong, 15-17 March, 2017

Table of Contents

International MultiConference of Engineers and Computer Scientists

IMECS 2017

Preface.....	xxiii
Committees.....	xxiv
Abstracts of Invited Lectures.....	xlviii

VOLUME I

The 2017 IAENG International Conference on Artificial Intelligence and Applications

Fuzzy Modeling using Vector Quantization based on Input and Output Learning Data <i>Hirofumi Miyajima, Noritaka Shigei, and Hiromi Miyajima</i>	1
Human Action Recognition by Conceptual Features <i>Yu-Huei Cheng, and Ching-Ming Lai</i>	7
A Study on Applying Interactive Multi-objective Optimization to Multiagent Systems <i>Toshihiro Matsui</i>	14
Application of Backpropagation Neural Networks in Predicting Story Drift of Building <i>Reni Suryanita, and Hendra Jingga</i>	20
Cross-language Entity Linking Adapting to User's Language Ability <i>Jialiang Zhou, Fuminori Kimura, and Akira Maeda</i>	24
An Effective Computational Intelligence-Based Method for Mutagenic Primer Design	

IMECS 2017 MultiConference Committee

Organizing Association:

International Association of Engineers
www.iaeng.org

Conference Co-organizers and Sponsors:

IAENG Society of Artificial Intelligence
IAENG Society of Bioinformatics
IAENG Society of Computer Science
IAENG Society of Data Mining
IAENG Society of Electrical Engineering
IAENG Society of Imaging Engineering
IAENG Society of Industrial Engineering
IAENG Society of Information System Engineering
IAENG Society of Internet Computing and Web Services
IAENG Society of Mechanical Engineering
IAENG Society of Operations Research
IAENG Society of Scientific Computing
IAENG Society of Software Engineering
IAENG Society of Wireless Networks

MultiConference Co-Chairs:

Prof. Craig Douglas (honorary co-chair)
School of Energy Resources Distinguished Professor,
School of Energy Resources and Departments of Mathematics
University of Wyoming, USA

Prof. David Dagan Feng (honorary co-chair)
Head, School of Information Technologies,
University of Sydney, Australia

Prof. Alexander M. Korsunsky (honorary co-chair)
Professor of Engineering Science
Former Dean, Trinity College
Department of Engineering Science, University of Oxford, UK

Prof. Ping-kong Alexander Wai (honorary co-chair)
Vice President and Chair Professor of Optical Communications
Hong Kong Polytechnic University, Hong Kong

Prof. Oscar Castillo
 Professor and Research Director of Computer Science,
 Tijuana Institute of Technology, Mexico
 President of HAFSA (Hispanic American Fuzzy Systems Association)
 Vice-Chair of the Mexican Chapter of the Computational Intelligence Society (IEEE)

Prof. Jeong-A Lee
 Professor of Department of Computer Engineering
 Chosun University, South Korea

Dr. S. I. Ao (MultiConference secretary)
 Ph.D. University of Hong Kong; Post-doc Oxford University Computing Laboratory,
 University of Oxford, UK & Harvard School of Engineering and Applied Sciences,
 Harvard University, USA;
 Former Visiting Professor, Cranfield University, UK & University of Wyoming, USA

MultiConference Committee:

Prof. Yousry H. Abdelkader	Alexandria University, Egypt
Prof. Daoud Ait-Kadi	University Laval, Canada
Prof. Basim Al-Najjar	Vaxjo University, Sweden
Prof. Ali Allahverdi	Kuwait University, Kuwait
Dr. Bala P. Amavasai	Sheffield Hallam University, U.K.
Prof. Carlos Henggeler Antunes	University of Coimbra, Portugal
Prof. Djamel Bouchaffra	Oakland University, USA
Prof. Indranil Bose	The University of Hong Kong, Hong Kong
Dr. Anthony Brabazon	University College Dublin, Ireland
Dr. Mietek Brdys	The University of Birmingham, UK
Prof. Fidel Cacheda	University of A Coruna, Spain
Prof. Alan Hoi-shou Chan	City University of Hong Kong, Hong Kong
Prof. Felix T.S. Chan	The Hong Kong Polytechnic University, Hong Kong
Prof. Chin-Chen Chang	Feng Chia University, Taiwan
Prof. Pranay Chaudhuri	University of the West Indies, West Indies
Dr. Chung Shue Chen	Alcatel-Lucent Bell Labs, France
Prof. Mu-Song Chen	Da-Yeh University, Taiwan
Dr. Qingfeng Chen	Deakin University, Australia
Prof. Wallace Choy	The University of Hong Kong, Hong Kong
Prof. T.S. Chung	The Hong Kong Polytechnic University, Hong Kong
Prof. Orville Leverne Clubb	City University of Hong Kong, Hong Kong
Prof. Manuel Jose Damasio	Universidade Lusofona de Humanidades e Tecnologias, Portugal
Prof. Chuangyin Dang	City University of Hong Kong, Hong Kong
Prof. Alexandar Djordjević	City University of Hong Kong, Hong Kong
Prof. Yu-fai Fung	Hong Kong Polytechnic University, Hong Kong
Prof. G. Ganesan	Adikavi Nannaya University, India
Prof. Robert Gay Kheng Leng	Nanyang Technological University, Singapore
Prof. Goh Ong Sing	National Technical University of Malaysia, Malaysia
Prof. Angel Marin Gracia	de la Universidad Politecnica de Madrid, Spain
Dr. Nalan Gulpinar	University of Warwick, UK
Dr. Phil Heaton-Adegbile	University of Portsmouth, UK
Prof. Enrique Herrera-Viedma	University of Granada, Spain
Prof. Josep R. Herrero	Polytechnic University of Catalonia, Spain
Prof. Xu Huang	University of Canberra, Australia
Prof. Chi-Kuang Hwang	Chung-Hua University, Taiwan
Prof. Heung Suk Hwang	TongMyong University, South Korea

Prof. Shigekazu Ishihara	Hiroshima International University, Japan
Prof. Limin Jia	Beijing Jiaotong University, China
Prof. Rajgopal Kannan	Louisiana State University, USA
Prof. George P. Karatzas	Technical University of Crete, Greece
Prof. Hideki Katagiri	Kanagawa University, Japan
Prof. Graham Kendall	University of Nottingham, UK
Prof. Kensaku Kikuta	University of Hyogo, Japan
Prof. Haeng Kon Kim	Catholic University of DaeGu, South Korea
Prof. Sung-il Kim	Korea University, South Korea
Prof. Cartik Kothari	The University of Memphis, USA
Prof. Mohan Krishnamoorthy	CSIRO Mathematical & Information Sciences Division, Australia
Prof. Tadahiko Kumamoto	National Institute of Information and Communications Technology, Japan
Prof. Reggie Kwan	The Open University of Hong Kong, Hong Kong
Prof. Ho Woo Lee	Sungkyunkwan University, South Korea
Prof. Layuan Li	Wuhan University of Technology, China
Prof. Xueliang Li	Nankai University, China
Prof. Yiming Li	National Chiao Tung University, Taiwan
Prof. Chih-Min Lin	Yuan-Ze University, Taiwan
Prof. Baoding Liu	Tsinghua University, China
Prof. Liping Liu	University of Akron, USA
Prof. Elsa M. Macias Lopez	Las Palmas de Gran Canaria University, Spain
Prof. Kazuaki Maeda	Chubu University, Japan
Prof. Prabhat K. Mahanti	University of New Brunswick, Canada
Prof. Qusay H. Mahmoud	University of Guelph, Canada
Prof. Nikolaos Matsatsinis	Technical University of Crete, Greece
Dr. George Mavrommatis	Hellenic Military Academy, Greece
Prof. Michael McGuigan	Brookhaven National Laboratory, USA
Prof. Patricia Melin	Tijuana Institute of Technology, Mexico
Dr. Ludmil Mikhailov	The University of Manchester, UK
Prof. Hiroshi Mineno	Shizuoka University, Japan
Prof. Herman Monsuur	Netherlands Defense Academy, The Netherlands
Prof. Chiung Moon	Yonsei University, South Korea
Prof. Alejandro Murua	University of Montreal, Canada
Prof. Nysret Musliu	Vienna University of Technology, Austria
Prof. Didier Nakache	CNAM de Paris, France
Prof. Jun Ni	The University of Iowa, USA
Dr. Lars Nolle	Nottingham Trent University, UK
Prof. A. Alper Ozalp	Uludag University, Turkey
Dr. Wan- Kai Pang	The Hong Kong Polytechnic University, Hong Kong
Prof. Apostolos N. Papadopoulos	Aristotle University, Greece
Prof. Selwyn Piramuthu	University of Florida, USA
Prof. I.M. Premachandra	University of Otago, New Zealand
Prof. A.B. Rad	Swinburne University of Technology, Australia
Prof. Marina Resta	Universita' degli Studi di Genova, Italy
Prof. Cornel I. G. Resteanu	National Institute for Research and Development in Informatics, Bucharest, Romania
Prof. Maria Luque Rodriguez	University of Cordoba, Spain
Prof. Raul Rojas	Freie Universitat Berlin, Germany
Prof. Carlos Romero	Technical University of Madrid, Spain
Prof. Susumu Saito	The Institute for Science of Labour, Japan
Prof. Tadeusz Sawik	AGH University of Science & Technology, Poland
Prof. Quah Tong Seng	Nanyang Technological University, Singapore
Dr. Rosemary R. Seva	De La Salle University, Philippines
Prof. Elhadi Shakshuki	Acadia University, Canada
Prof. Dharmendra Sharma	University of Canberra, Australia
Prof. JiuH-Biing Sheu	National Chiao Tung University, Taiwan
Prof. Shey-Huei Sheu	National Taiwan University of Science and Technology, Taiwan
Prof. Vrijendra Singh	Indian Institute of Information Technology Allahabad, India
Prof. Yannis Siskos	University of Piraeus, Greece

Prof. Yuri Grigoriyevich Stoyan	Institute for Problems in Machinery of National Ukrainian Academy of Sciences, Ukraine
Dr. Tan Sui	University Oxford, UK
Prof. Junping Sun	Nova Southeastern University, USA
Prof. Zhaohao Sun	University of Wollongong, Australia
Prof. Manoj Kumar Tiwari	National Institute of Foundry and Forge Technology (NIFFT), India
Prof. Dat Tran	University of Canberra, Australia
Prof. Francisco Herrera Triguero	University of Granada, Spain
Prof. Lin-Yu Tseng	Providence University, Taiwan
Prof. Shinichi Tsuda	Tokai University, Japan
Prof. Gwo-Hshiung Tzeng	Kainan University, Taiwan
Prof. Lev V. Utkin	St.Petersburg Forest Technical Academy, Russia
Prof. Ismael Vaz	Universidade do Minho, Portugal
Prof. Jose Luis Verdegay	Universidad de Granada, Spain
Prof. Hsiao-Fan Wang	National Tsing Hua University, Taiwan
Prof. Long Wang	Peking University, China
Prof. Shyh-Hau Wang	Chung Yuan Christian University, Taiwan
Prof. Toyohide Watanabe	Nagoya University, Japan
Prof. Frank Werner	Otto-von-Guericke-University of Magdeburg, Germany
Prof. Igor Wojnicki	AGH - University of Science and Technology, Poland
Prof. Ed Xuekui Wu	University of Hong Kong, Hong Kong
Prof. Trong Wu	Southern Illinois University Edwardsville, USA
Prof. Guangming Xie	Peking University, China
Prof. Li Xu	Zhejiang University, China
Prof. Susan H. Xu	Penn State University, USA
Prof. Gi-Chul Yang	Mokpo National University, South Korea
Prof. Xin-She Yang	Middlesex University, UK
Prof. Kun-Ming Yu	Chung Hua University, Taiwan
Prof. Cecilia Zanni	Marc Bloch University, France
Prof. Xiaohua (Douglas) Zhang	Merck Research Laboratories, USA
Prof. Zhe George Zhang	Simon Fraser University, Canada
Prof. Yao Zhao	Beijing Jiaotong University, China
Prof. Yong Zhao	Nanyang Technological University, Singapore
Prof. Constantin Zopounidis	Technical University of Crete, Greece

IMECS 2017 Conferences Committees

ICOR Conference Co-Chairs and Committee Members:

Prof. Yousry H. Abdelkader	Associate Professor, Department of Mathematics, Alexandria University, Egypt
Prof. Daoud Ait-Kadi	Professor, Departement de genie mecanique, University Laval, Canada
Prof. Javier Alcaraz	Professor, The Statistics, Mathematics and Computer Science Department, Universidad Miguel Hernandez, Spain
Prof. Ali Allahverdi (co-chair)	Professor, Department of Industrial and Management Systems Engineering, Kuwait University, Kuwait
Prof. Carlos Henggeler Antunes	Head of the R&D Institute INESC Coimbra; Associate professor at the Department of Electrical Engineering and Computers, University of Coimbra, Portugal
Prof. Alan Hoi-shou Chan	Associate Professor, Department of Manufacturing Engineering and Engineering Management, City University of Hong Kong, Hong Kong
Prof. Resteanu Cornel (co-	National Institute for Research and Development in Informatics,

chair)	Romania
Prof. Chuangyin Dang (co-chair)	Associate Professor, Department of Manufacturing Engineering and Engineering Management, City University of Hong Kong, Hong Kong
Prof. Moustapha Diaby	Associate Professor, Department of Operations and Information Management, University of Connecticut, USA
Dr. Eduardo Fernandez	Autonomous University of Sinaloa, Mexico
Prof. Angel Marin Gracia	Professor of Applied Mathematics and Statistical Department de la Universidad Politecnica de Madrid, Spain
Dr. Nalan Gulpinar	Lecturer in Operational Research, Warwick Business School, University of Warwick, United Kingdom
Prof. Salim Haddadi	Professor, Department of Computer Science, University of the 8 Mai 1945, Guelma
Prof. Chi-Kuang Hwang (co-chair)	Associate Professor and Chairman of Electrical Engineering Department, Chung-Hua University, Taiwan
Prof. Heung Suk Hwang	Chair Professor, Department of Port & Logistics System, College of Port & Logistics, TongMyong University, South Korea
Prof. Voratas Kachitvichyanukul	Associate Professor, Industrial Engineering & Management, School of Engineering and Technology, Asian Institute of Technology, Thailand
Prof. George P. Karatzas	Associate Professor and Director of Graduate Studies (DPMS) Department of Environmental Engineering, Technical University of Crete, Greece
Prof. Hideki Katagiri (co-chair)	Professor, Department of Industrial Engineering and Management, Faculty of Engineering, Kanagawa University, Japan
Prof. Graham Kendall (co-chair)	Professor in Computer Science, University of Nottingham, UK
Prof. Kensaku Kikuta (co-chair)	Professor, School of Business Administration, University of Hyogo, Japan
Prof. Laszlo Nandor Kiss	Professor, Universite Laval, Departement d'Operations et Systemes de Decision, Canada
Dr. Mohan Krishnamoorthy	Research & Business Leader, Decision Technologies, CSIRO Mathematical & Information Sciences Division, Australia
Prof. Wen-Hung Kuo	Assistant Professor, Department of Industrial Engineering and Technology Management, Da-Yeh University, Taiwan
Prof. Ho Woo Lee	Professor of Industrial Engineering and Systems Management Engineering, Sungkyunkwan University, South Korea
Prof. Xueliang Li	Deputy Director and Professor, Center for Combinatorics, Nankai University, China
Prof. Yun-Chia Liang	Associate Professor, Department of Industrial Engineering & Management, Yuan Ze University, Taiwan
Prof. Baoding Liu	Professor, Department of Mathematical Sciences, Tsinghua University, China
Prof. Liping Liu (co-chair)	Professor of Management and Information Systems, University of Akron, USA
Prof. Nikolaos Matsatsinis	Associate Professor, Decision Support Systems Laboratory, Technical University of Crete, Greece
Dr. Ludmil Mikhailov (co-chair)	Senior lecturer in the School of Informatics, University of Manchester, U.K
Prof. Herman Monsuur (co-chair)	Associate Professor of Mathematics and Operations Research, Netherlands Defense Academy, The Netherlands
Prof. Javier Montero	Associate Professor at the Department of Statistics and Operational Research I, Faculty of Mathematics, Complutense University of Madrid, Spain
Prof. Kimmo Nurmi	Vice President, Research and Innovation Director, Satakunta University of Applied Sciences, Finland
Prof. I.M. Premachandra	Associate Professor, Department of Finance & Quantitative Analysis, University of Otago, New Zealand
Prof. C.S.P.Rao	Associate Professor, Mechanical Engineering Department, National Institute of Technology, India

Prof. Marina Resta	Assistant Professor, DIEM sez. di Matematica Finanziaria, Universita' degli Studi di Genova, Italy
Dr. Joaquin Rodriguez	INRETS-ESTAS, France
Prof. Carlos Romero PhD, FORS, FWAPS (co-chair)	Professor of Economics, Department of Forest Economics and Management, Technical University of Madrid, Spain
Prof. Tadeusz Sawik (co-chair)	Professor and Head, Computer Integrated Manufacturing, AGH University of Science & Technology, Poland
Dr. Gaurav Singh	Research Scientist, CSIRO, Australia
Prof. Yannis Siskos (co-chair)	Professor of decision science at the Department of Informatics University of Piraeus, Greece
Prof. Yuri Grigoriyevich Stoyan (co-chair)	(1) Chief of Department of Mathematical Modeling and Optimal Design, Institute for Problems in Machinery of National Ukrainian Academy of Sciences (2) Professor at the chair of Applied Mathematics, Kharkov National University of Radioelectronics, Ukraine
Prof. Toshiyuki Sueyoshi	Professor at Department of Management, New Mexico Institute of Mining and Technology, USA
Prof. Jih-Biing Sheu (co-chair)	Associate Professor, Institute of Traffic and Transportation National Chiao Tung University, Taiwan
Prof. Shey-Huei Sheu (co-chair)	Professor, Department of Industrial Management, National Taiwan University of Science and Technology, Taiwan
Prof. Lin-Yu Tseng	Distinguished Professor, Department of Computer Science and Communication Engineering, Providence University, Taiwan
Prof. Manoj Kumar Tiwari	Professor, Department of Forge Technology, Chairman, Research Promotion Cell National Institute of Foundry and Forge Technology (NIFFT), India
Prof. Gwo-Hshiung Tzeng (co-chair)	(1) Distinguished Chair Professor of Kainan University, Taiwan (2) National Distinguished Chair Professor (Highest Honor offered by the Ministry of Education Affairs, Taiwan) (3) Distinguished Research Fellow (Highest Honor Offered by NSC, Taiwan)
Prof. Lev V. Utkin, PhD, DSc	Professor, Dept. of Computer Science, St.Petersburg Forest Technical Academy, Russia
Dr. Ismael Vaz	Departamento de Producao e Sistemas, Universidade do Minho, Portugal
Prof. Frank Werner	Professor, Otto-von-Guericke-University of Magdeburg, Germany
Prof. Susan H. Xu (co-chair)	Professor of Management Science and Supply Chain Management Smeal College of Business Administration, Penn State University, USA
Prof. Hui-Ling Yang	Professor at Hung-Kuang University, Taiwan
Prof. Po-Chung Yang	Professor in Industrial Engineering and Management, St. John's University, Taiwan
Dr. Guangquan Zhang	Queen Elizabeth II Fellow in Faculty of Information Technology at University of Technology, Sydney, Australia
Prof. Zhe George Zhang	Professor in Management Sciences, Department of Decision Science, Western Washington University, USA
Prof. Constantin Zopounidis (co-chair)	(1) Professor of Financial Management and Operations Research, Department of Production Engineering and Management, Technical University of Crete, Greece (2) Editor-in-Chief in two journals: Operational Research: An International Journal; The Journal of Financial Decision Making

ICAIA Conference Co-Chairs and Committee Members:

Dr. Aladdin Ayesb	Senior Lecturer in AI and Robotics, Computer Science Department, De Montfort University, UK
Dr. Jiping Bai	Senior Lecturer, Department of Engineering, Faculty of Advanced

- Prof. Francisco Bellas
Technology, University of Glamorgan, UK
- Dr. Tossapon Boongoen
Assistant Professor, Computer Science Department, University of Coruna, Campus of Elvina, Spain
- Dr. Anthony Brabazon
Lecturer, Department of Mathematics and Computer Science, Thai Air Force Academy, Thailand
- Dr. Chan Ching-Yuen
Lecturer, University College Dublin, Ireland
- Prof. Felix T.S. Chan (co-chair)
Lecturer, Department of Industrial & Systems Engineering, The Hong Kong Polytechnic University, Hong Kong
- Prof. Chin-Chen Chang
Professor, Department of Industrial and Systems Engineering, The Hong Kong Polytechnic University, Hong Kong
- Dr. Mei-Ching Chen
Chair Professor in Department of Information Engineering and Computer Science, Feng Chia University, Taiwan
- Prof. Yee-Ming Chen (co-chair)
Dept. of Computer Science and Engineering, Tatung University, Taiwan
- Prof. PenChen (Steve) Chou
Professor, Dept. of Industrial Engineering and Management, Yuan Ze University, Taiwan
- Prof. Hung-Yuan Chung
Associate Professor, Electrical Engineering Department, DaYeh University, Taiwan
- Prof. Gang (Gary) Feng (co-chair)
Professor, Department of Electrical Engineering, National Central University, Taiwan
- Prof. G. Ganesan
Associate Professor, Department of Manufacturing Engineering and Engineering Management (MEEM), City University of Hong Kong, Hong Kong
- Prof. Gwo-Jen Hwang
Associate editor, IEEE Trans. on Fuzzy Systems, Professor, Department of Mathematics, Adikavi Nannaya University, India
- Prof. Limin Jia
Professor, Department of Information and Learning Technology, Dean, College of Science and Engineering, National University of Tainan, Taiwan
- Dr. Yanguo Jing
Chair Professor, School of Traffic and Transportation, Beijing Jiaotong University, China
- Prof. Fu-Chien Kao
Senior Lecturer in Compute Science, London Metropolitan University, UK
- Prof. Sung-il Kim (co-chair)
Associate Professor, Department of Computer Science and Information Engineering, Da-Yeh University, Taiwan
- Prof. Layuan Li
Professor, Department of Education, Korea University, Korea
- Prof. Chih-Jer Lin
Professor, Department of Computer Science and Technology, Wuhan University of Technology, China
- Prof. Chih-Min Lin (co-chair)
Associate Professor of Mechanical and Automation Engineering, Da-Yeh University, Taiwan
- Prof. Liping Liu
Chair and Professor, Department of Electrical Engineering, Yuan-Ze University, Taiwan
- Prof. Jia-Jiunn Lo (co-chair)
Professor of Management and Information Systems, University of Akron, USA
- Dr. Wanli Ma
Associate Professor, Dept. of Information Management, Chung-Hua University, Taiwan
- Prof. Nada Matta
Lecturer, School of Information Science and Engineering, University of Canberra, Australia
- Prof. Nikolaos Matsatsinis
Professor, Siege de l'INRIA (ACACIA), France
- Dr. Michael McGuigan (co-chair)
Associate Professor, Decision Support Systems Laboratory, Technical University of Crete, Greece
- Prof. Patricia Melin (co-chair)
Computer Scientist in the Computational Science Center, Brookhaven National Laboratory, USA
- Prof. Chiung Moon
Professor of Computer Science, Tijuana Institute of Technology, Mexico;
Chair of the Mexican Chapter of the Computational Intelligence Society (IEEE)
Research Professor, Department of Information & Industrial Engineering, Yonsei University, Seoul, South Korea;
Area Editor of the Journal of Industrial Engineering & Management

	Systems
Prof. Nysret Musliu	Assistant Professor in the Database and Artificial Intelligence Group, Vienna University of Technology, Austria
Dr. Lars Nolle (co-chair)	Senior Lecturer, School of Computing & Informatics Nottingham Trent University, UK
Prof. Selwyn Piramuthu	Associate Professor, Department of Decision & Information Sciences, University of Florida, USA
Prof. Raul Rojas	Professor of Artificial Intelligence, Department of Mathematics and Computer Science, Freie Universitat Berlin, Germany
Prof. Tadeusz Sawik	Professor and Head, Computer Integrated Manufacturing, AGH University of Science & Technology, Poland
Prof. Quah Tong Seng	Professor of Information Communication Institute of Singapore (ICIS), Nanyang Technological University, Singapore
Prof. Dharmendra Sharma (co-chair)	Professor & Head, School of Information Sciences and Engineering, University of Canberra, Australia
Dr. Zhiqi Shen	Research scientist, Information Communication Institute of Singapore, Nanyang Technological University, Singapore
Prof. Wen-Jye Shyr	Assistant Professor, Department of Industrial Education and Technology, National Changhua University of Education, Taiwan
Prof. Chris K.W. Su	Professor, Department of Information Management, National Kaohsiung First University of Science and Technology, Taiwan
Dr. Sankaranarayanan Suresh	Lecturer & Head, Centre for Intelligent Networking, Department of Computing, University of West Indies, Kingston, Jamaica
Prof. Keiichi Tamura	Associate Professor, Graduate School of Information Sciences, Hiroshima City University, Japan
Dr. Dat Tran	Senior Lecturer in Computing, School of Information Sciences and Engineering, University of Canberra, Australia
Prof. Lin-Yu Tseng	Distinguished Professor, Department of Computer Science and Communication Engineering, Providence University, Taiwan
Prof. Jose Luis Verdegay (co-chair)	Professor, Depto. de Ciencias de la Computacion e Inteligencia Artificial, University of Granada, Spain
Dr. Enrique Herrera Viedma	Lecturer in Computer Sciences and Artificial Intelligence University of Granada, Spain
Prof. Rong-Jong Wai (co-chair)	Professor, Department of Electrical Engineering, Yuan Ze University, Taiwan
Prof. Toyohide Watanabe	Professor of Department of Systems and Social Informatics & Director in Information Technology Center, Nagoya University, Japan
Prof. Jiunn-Lin Wu	Assistant Professor, Dept. of Computer Science, National Chung Hsing University, Taiwan
Prof. Guangming Xie	Associate Professor, Center for Systems and Control, Department of Industrial Engineering and Management and Department of Mechanics and Space Technologies, College of Engineering, Peking University, China
Prof. Gi-Chul Yang	Professor, Mokpo National University, South Korea
Prof. Tai-Wen Yue (co-chair)	Associate Professor, Department of Computer Science and Engineering, Tatung University, Taiwan
Dr. Guangquan Zhang	Queen Elizabeth II Fellow in Faculty of Information Technology at University of Technology, Sydney, Australia

ICSC Conference Co-Chairs and Committee Members:

Prof. Chin-Chen Chang	IEEE Fellow, IEE Fellow; Chair Professor in Department of Information Engineering and Computer Science, Feng Chia University, Taiwan
Prof. Jim C. Chen	Assistant Professor, Nanyang Technological University, Singapore
Prof. Chiang-Ho Cheng (co-	Assistant Professor, Department of Mechanical and Automation