

Newly Elected CIS Administrative Committee Members

Sansanee Auephanwiriyaikul Chiang Mai University, Thailand



Sansanee Auephanwiriyaikul received the B.Eng. (Hons.) degree in electrical engineering from the Chiang Mai University, Thailand (1993), the M.S. degree in electrical and computer engineering and Ph.D. degree in computer engineering and computer science, both from the University of Missouri-Columbia, in 1996, and 2000, respectively. After receiving her Ph.D. degree, she worked as a post-doctoral fellow at the Computational Intelligence Laboratory, University of Missouri-Columbia. She is currently an Associate Professor at the Department of Computer Engineering and a deputy director of the Biomedical Engineering Institute, Chiang Mai University, Thailand.

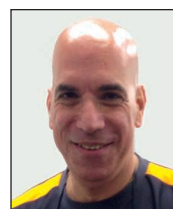
Dr. Auephanwiriyaikul is a senior member of the Institute of Electrical and Electronics Engineers (IEEE). She is an Associate Editor of the IEEE Transactions on Fuzzy System, the IEEE Transactions on Neural Networks and Learning Systems, IEEE Computational Intelligence Magazine, IEEE Transactions on Artificial Intelligence, Engineering Applications of Artificial Intelligence, and ECTI Transactions on Computer and Information Technology. She was an Editorial Board of several prominent

journals. She was a general chair of the IEEE International Conference on Computational Intelligence in Bioinformatics and Computational Biology (CIBCB 2016). She was a Technical Program Chair, Organizing Committee in several major conferences including the IEEE International, Conference Fuzzy Systems. She is a member of several important IEEE organizations, i.e., Women in Computational Intelligence, Fuzzy System Technical Committee, Bioinformatics and Bioengineering Technical Committee, Data Mining and Big Data Analytics, Distinguished Lecture Program, Webinars, and Student Activities. As a part of these committee members, her job is to promote the research, development, education, and understanding of the technology, including the creation of the theory and models as well as their applications. She was a member of IEEE P1855 Workgroup for Fuzzy Markup Language Standardization as well.

Her research interests include fuzzy set theory, neural networks, medical image processing, linguistic algorithm, and computational Intelligence applications, especially in biomedical engineering and robot navigation in uncertain environment.

Guilherme DeSouza University of Missouri, USA

I am an Associate Professor in Electrical Engineering and Computer Science, an Adjunct Professor with the Sinclair



School of Nursing, and a core faculty member of the MU Informatics Institute at the University of Missouri (MU). I am also the Director of

the Vision-Guided and Intelligent Robotics Laboratory (ViGIR Lab). I have been involved with the IEEE CIS since 2009 by serving as: chair of eleven SSCI Symposia; one of the founding members of a local CIS Chapter; chair and member of the CIS Senior Member Subcommittee for three years; chair and member of the CIS Student Activities Subcommittee for four years; member of the CIS Conference Bid Subcommittee for three years; member of the CIS Young Professionals Subcommittee for three years; member of the CIS Chapter Subcommittee for two years; member of the CIS Social Media Subcommittee for two years; member of the Task Force on Intelligent Cyber-Physical Systems within the IEEE CIS Smart World Technical Committee for one year; chair of the CIS Educational Repository Subcommittee since 2018; chair and member of the CIS Content Capture (formerly Multimedia) Subcommittee since 2018; chair and member of the CIS History Committee (member since 2018, chair since 2020); member of the CIS Webinar Subcommittee (since 2018-present); member of the High School Subcommittee (in 2020); associate Editor of IEEE Transactions on

Artificial Intelligence since 2020; and I will be the General Chair for IEEE CEC in 2023, in Chicago.

As a member of AdCom, I hope to help improving the visibility of the CIS, by helping the Society to attract a higher number of excellent submissions for its Conferences, in special its flagship conferences. Also, I hope to work towards clarifying the role of the CIS and of CI itself (i.e. vis-à-vis AI), to the academic, industrial and broader communities. I believe this goal can be achieved by teaching the History of CI and the History of the CIS through my continuous work as a History Committee member; by continuing to produce educational videos and further disseminating them through YouTube, IEEE.tv, etc.; and by fomenting the Educational materials that many of my colleagues in the EdCom are already producing. But I would like also to produce new social-media and educational content, such as the Timeline of events in CI – an interactive website where visitors can click on a timeline of events and learn about upcoming or past facts, watch videos, learn about the benefits of joining the CIS, virtually meet CI/CIS people, and much more.

Jonathan M. Garibaldi University of Nottingham, UK



Jon Garibaldi is Professor of Computer Science at the University of Nottingham, UK. Since 2016, he has been Head of School of Computer Science; he also leads the Intelligent Modelling and Analysis Research Group and was founding Co-Director of the University's Advanced Data Analysis Centre.

Jon is an IEEE Fellow, has been an active member of the IEEE Computational Intelligence Society for many years, and has been Editor-in-Chief of IEEE Transactions on Fuzzy Systems since 2017.

His main research interest is in developing intelligent techniques to model human reasoning in uncertain environments, with a particular emphasis on

the medical domain. His main technical area of research is in creating new theory and practical advances in non-standard fuzzy sets and systems, such as type-2 fuzzy sets and systems, to model human reasoning processes. In addition, he has interests in data analysis, particularly of complex and uncertain data, data mining, clustering and classification, and in the deployment of decision support systems in practical medical applications.

Janusz Kacprzyk Polish Academy of Sciences, Poland



Janusz Kacprzyk is Professor of Computer Science at the Systems Research Institute, Polish Academy of Sciences, WIT – Warsaw School of Information Technology, and Chongqing Three Gorges University, Wanzhou, Chongqing, China, and Professor of Automatic Control at PIAP – Industrial Institute of Automation and Measurements in Warsaw, Poland. He is Honorary Foreign Professor at the Department of Mathematics, Yli Normal University, Xinjiang, China. He is Full Member of the Polish Academy of Sciences, Member of Academia Europaea, European Academy of Sciences and Arts, European Academy of Sciences, Foreign Member of the: Bulgarian Academy of Sciences, Spanish Royal Academy of Economic and Financial Sciences (RACEF), Finnish Society of Sciences and Letters, Flemish Royal Academy of Belgium of Sciences and the Arts (KVAB), National Academy of Sciences of Ukraine and Lithuanian Academy of Sciences. He was awarded with 6 honorary doctorates. He is Fellow of IEEE, IET, IFSA, EurAI, IFIP, AAIA, I2CICC, and SMIA.

His main research interests include the use of modern computation computational and artificial intelligence tools, notably fuzzy logic, in systems science, decision making, optimization, control, data analysis and data mining, with applications in mobile robotics, systems modeling, ICT etc.

He authored 7 books, (co)edited more than 150 volumes, (co)authored more than 650 papers, including ca. 150 in journals indexed by the WoS. He is listed in 2020 and 2021 “World’s 2% Top Scientists” by Stanford University, Elsevier (Scopus) and ScieTech Strategies and published in PLOS Biology Journal. He is the editor in chief of 8 book series at Springer, and of 2 journals, and is on the editorial boards of ca. 40 journals. He is President of the Polish Operational and Systems Research Society and Past President of International Fuzzy Systems Association.

Derong Liu Guangdong University of Technology, CHINA



Derong Liu received the Ph.D. degree in electrical engineering from the University of Notre Dame in 1994. He was a Staff Fellow with General Motors Research and Development Center, from 1993 to 1995. He was an Assistant Professor with the Department of Electrical and Computer Engineering, Stevens Institute of Technology, from 1995 to 1999. He joined the University of Illinois at Chicago in 1999, and became a Full Professor of Electrical and Computer Engineering and of Computer Science in 2006. He was selected for the “100 Talents Program” by the Chinese Academy of Sciences in 2008, and he served as the Associate Director of The State Key Laboratory of Management and Control for Complex Systems at the Institute of Automation, from 2010 to 2016. He has published 13 books. He is the Editor-in-Chief of Artificial Intelligence Review (Springer). He was the Editor-in-Chief of the IEEE Transactions on Neural Networks and Learning Systems from 2010 to 2015. He received the Faculty Early Career Development Award from the National Science Foundation in 1999, the University Scholar Award from University of Illinois from 2006 to 2009, the Overseas Outstanding Young Scholar Award from the National Natural

Science Foundation of China in 2008, the Outstanding Achievement Award from Asia Pacific Neural Network Assembly in 2014, the INNS Gabor Award in 2018, the IEEE TNNLS Outstanding Paper Award in 2018, the IEEE SMC Society Andrew P. Sage Best Transactions Paper Award in 2018, the IEEE/CCA J. Automatica Sinica Hsue-Shen Tsien Paper Award in 2019, and the IEEE CIS Neural Network Pioneer Award in 2022. He has been named a highly cited researcher consecutively for five years from 2017 to 2021 by Clarivate. He is a Fellow of the IEEE, a Fellow of the International Neural Network Society, a Fellow of the International Association of Pattern Recognition, and a Member of Academia Europaea (The Academy of Europe).

Ana Maria Madureira Institute of Engineering (ISEP/P.PORTO), Portugal

Ana M. Madureira received the Ph.D. in Production and Systems Engineering degree from Minho University in 2003. She is Coordinator Professor in Infor-



matics Engineering Department at the Institute of Engineering (ISEP/P.PORTO) and has a significant experience in Computer Science undergraduate/graduate courses and in master and PhD thesis supervision. She has been involved in more than 20 R&D projects from which she coordinated 3 national funding in the area of Artificial Intelligence based Distributed Scheduling Systems. She has published 4 books, 1 patent and over 150 papers in scientific conference proceedings, journals and books.

Current research activity addresses the application of Optimization and Artificial Intelligence Techniques to the design of approaches based on Nature Inspired Computation for scheduling, including, Meta-Heuristics, MAS, Automatic Computing, Machine Learning techniques, User modelling, Decision-Support Systems, and also Bioinformatics, Big Data and Data Science/Data Engineering.

She had an active participation at different IEEE structure levels, from COMMITTEES/BOARDS: Nominations and Appointments SubCommittee member (2021); Vice-Chair of 2013 Adaptive Dynamic Programming and Reinforcement Learning Technical Committee of the IEEE CIS; associate editor of IEEE TNNLS (2012-2018); Member of ISATC of the IEEE CIS since 2010; Member of ADRL-TC of the IEEE CIS since 2010. REGIONS level (Region 8): IEEE Region 8 Past-Secretary (2021); IEEE Region 8 Secretary (2019-2020); University Activities Coordinator for IEEE R8 Educational Activities Subcommittee – EASC (2017-2018). At SECTIONS/CHAPTERS level: Founder member of Portuguese IEEE CIS Chapter in 2005; Portuguese IEEE CIS Chapter vice-chair (2005-2007); Portuguese IEEE CIS Chapter chair (2008-2010); IEEE Portugal Section Vice-Chair (2012-2014); Founder member of Portuguese IEEE SMC Chapter in 2015; IEEE Portugal Section Chair (2015-2017).

IEEE Fellows–Class of 2022

Gary G. Yen
IEEE CIS 2021 Fellow
Committee Chair

Thomas H. W. Bäck
Leiden University, NETHERLANDS

For contributions in synthesizing evolutionary computation.



Thomas Bäck is Professor of Computer Science and Vice Scientific Director at the Leiden Institute of Advanced Comput-

er Science (LIACS), Leiden University, Netherlands, where he leads the Natural Computing research group. He received his Diploma degree in Computer Science in 1990 and his Ph.D. degree in 1994, both from the Technical University Dortmund, Germany. Between 1994 and 2000, he worked at the Informatik Centrum Dortmund, Germany, and accepted a position as Associate Professor at Leiden University in 1996, where he became a Full Professor in 2002.

His research interests include evolutionary computation, multiple objective decision making, machine learning, and their real-world applications, especially in the automotive and manufacturing industries. Since 1995, he has pursued industrial applications of evolutionary computation. With his co-authors, he received an industrial impact award at the International Conference on Industry 4.0 and Smart Manufacturing (ISM), 2020. Since 2019, he is also a Chief Scientist at

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