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Asian Control Association

Newsletter

Vol. 10, No.1, Dec. 1, 2019

Message from the President



Greeting to all! It is my great pleasure to report that the twelfth Asian Control Conference (ASCC 2019) took place successfully at Kitakyushu in Japan from June 9th to 12th, 2019. In ASCC 2019, 284 papers were presented orally, which were arranged into 54 sessions. Participants were 430 from 26 countries, with 147 from Japan, 250 from Asia and Oceania except Japan, 17 from Europe, 6 from USA and 2 from Africa; students were 157. It was actually international!

The next Asian Control Conference (ASCC 2021) will be held at Jeju in Korea from May 5th to 8th, 2021. Under the strong leadership of Prof. Keum-Shik Hong, President-elect of ACA, the preparations of ASCC 2021 are advancing surely. Negotiations for collaboration with other societies and communities have already started. A MOU between ACA and the Global EV Association Network (GEAN) & The International Electric Vehicle Expo (IEVE) has been signed at the Executive Board (EB) meeting held in Jeju in October. This exciting event (Expo) will take place simultaneously with ASCC 2021, which will contribute to more people coming to ASCC.

This year, I attended the following control conferences taking place in Asia:

- The 38th Chinese Control Conference (CCC 2019)
- SICE Annual Conference 2019 (SICE 2019)
- The 19th International Conference on Control, Automation and Systems (ICCAS 2019)
- The 2019 International Automatic Control Conference (CACCS 2019)

They have been in strong association with ACA. All of them excited and stimulated me. I think that ACA will enhance association with these related societies through mutual participation in the conferences.

It is also with my great pleasure that we have the new SC members:

- Prof. Lei Guo (China)
- Prof. Liuping Wang, (Australia)
- Prof. Jun Zhao (China)
- Prof. Waree Kongprawechanon (Thailand)

All of them are very active and esteemed highly. I also believe that they will contribute and bring new perspective to ACA.

Takeshi Mizuno
ACA President

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Introduction of New SC member from China



Prof. Lei GUO, Chinese Academy of Sciences (CAS), China.

Lei GUO received his B.S. degree in mathematics from Shandong University in 1982, and Ph.D. degree in control theory from the Chinese Academy of Sciences in 1987. He was a postdoctoral fellow at the Australian National University (1987-1989). Since 1992, he has been a Professor of the Institute of Systems Science at the Chinese Academy of Sciences (CAS), where he had been Director of the Institute (1999-2002). From 2002 to 2012, he was the President of the Academy of Mathematics and Systems Science, CAS. He is currently the Director of the National Center for Mathematics and Interdisciplinary Sciences, CAS.

Dr. Guo was elected Fellow of the IEEE in 1998, Member of the Chinese Academy of Sciences in 2001, Fellow of the Academy of Sciences for the Developing World (TWAS) in 2002, Foreign Member of the Royal Swedish Academy of Engineering Sciences in 2007, and Fellow of the International Federation of Automatic Control (IFAC) in 2007 "for fundamental contributions to the theory of adaptive control and estimation of stochastic systems, and to the understanding of the maximum capability of feedback". In 2014, he was awarded an honorary doctorate by Royal Institute of Technology (KTH), Sweden. His coauthored paper on synchronization of flocks was selected and published as a SIGEST Paper by SIAM Review in 2014. He was also the recipient of the 1993 IFAC World Congress Young Author Prize "for solving a long standing problem in control theory concerning convergence and convergence rate for the least-squares-based self-tuning regulators". He was awarded the 2019 Hendrik W. Bode Lecture Prize by the IEEE Control Systems Society. He has delivered twice plenary lectures at the IFAC World Congress in 1999 and 2014 respectively, and was an Invited speaker at the International Congress of Mathematicians (ICM) in 2002. He has also been selected as a distinguished lecturer of the IEEE Control Systems Society (2012-2014).

He has served as a Council Member of IFAC (2005-2011), Member of IEEE Control Systems Award Committee (2008-2011, 2018-2019), Member of the IFAC Award Committee (2005-2008, 2017-2020), Associate Editor of SIAM J. Control and Optimization (1991-1993), General Co-Chair of the 48th IEEE Conference on Decision and Control (2009), Deputy Director of the CAS Academic Committee (2013-2018), Congress Director of the 8th International Congress on Industrial and Applied Mathematics (ICIAM 2015), Advisor of the National Basic Research Program of China (2011-), President of the China Society for Industrial and Applied Mathematics (CSIAM), Vice-President of the Chinese Mathematical Society, and Vice-President of the Chinese Association of Automation. Currently, he serves as the Director of the Information Science Division of CAS Academic Committee (2018-), Deputy Director of the Division of Information Technical Sciences, CAS (2016-), and a member of editorial boards of a number of academic journals in mathematics, systems and control.

He has worked on problems in adaptive control, system identification, adaptive signal

processing, and stochastic systems. His current research interests include control of nonlinear uncertain systems, PID control theory, distributed filtering and estimation, capability of feedback, multi-agent systems, game-based control systems, and complex systems, among others.

Introduction of New SC member from Australia

Professor Liuping Wang, RMIT University, Australia



Professor Liuping Wang received her Ph.D degree in 1989 from the Department of Automatic Control and Systems Engineering, University of Sheffield, UK. Upon completion of her Ph.D degree, she worked in the Department of Chemical Engineering at the University of Toronto, Canada for eight years in the field of process control. From 1998 to 2002, she worked in the Center for Integrated Dynamics and Control, University of Newcastle, Australia. In February 2002, she joined the School of Electrical and Computer Engineering, RMIT University, Australia where she is a Professor of Control Engineering. She has authored and co-authored more than 200 scientific papers in the field of system identification, PID control, adaptive control, model predictive control, electrical drive control, power converter control, unmanned aerial vehicle control and control technology application to industrial processes. She co-authored a book with Professor Will Cluett entitled *From Process Data to Process Control- Ideas for Process Identification and PID control* (Taylor and Francis, 2000). She co-edited two books with Professor Hugues Garnier entitled ‘Continuous time model identification from sampled data’ (Springer-Verlag, 2008) and ‘System identification, environmental modelling and control’ (Springer-Verlag, 2011). Her book entitled ‘Model Predictive Control Design and Implementation using MATLAB®’ was published by Springer-Verlag in 2009, and her new book entitled ‘PID and State Space Control Systems: Design and Automatic Tuning using MATLAB/Simulink’ will be published by Wiley in 2019. She is the lead author of the book entitled ‘PID and predictive control of electrical drives and power converters using MATLAB®’ published by Wiley-IEEE Press in 2015. Dr. Liuping Wang is an associate editor of *International Journal of Control*, *Journal of Process Control*, *IEEE Transactions on Control System Technology* and a Fellow of Institution of Engineers Australia.

Introduction of New SC member from China

Professor Jun Zhao, Dalian University of Technology, China



Professor Jun Zhao received his Ph.D. degree from School of Control Science and Engineering, Dalian University of Technology, China, in 2008. He worked as the associated professor in 2013-2015, and the full professor since the end of 2015 at Dalian University of Technology.

He is now the director of Intelligent Control Institute with the School of Control Science and Engineering, DUT, China. He has authored or co-authored over 100 technical publications in refereed journals and conference proceedings. He serves as associate editors for several top tier journals including Control

Engineering Practice, IEEE Transactions on Neural Networks and Learning Systems, Information Sciences, etc. From 2015, he became a Technical Committee member (TC6.2) of IFAC MMM society. In 2018, he obtained the First Class Prizes of Science and Technology Progress Award of CAA (Chinese Automation Association), and is now the scientist-in-chief of a National Key R&D Program of China. In addition, he was the recipient of Young Scholar of Yangtze River from Ministry of Education of China in 2016, and received the Excellent Young Scholar funding supported by National Natural Science Foundation of China in 2015. He is also the recipients of the Best Application Paper Award of WCICA2014, and the Zhang Zhongjun Best Paper Award of CPCC 2016.

Introduction of New SC member from Thailand

Prof. Waree Kongprawechnon, Associate Professor, School of Information, Computer, and Communication Technology, SIIT



Waree Kongprawechnon received her B.Eng with 1st class class honor from Chulalongkorn University in 1992. From 1992 to 1998, she got Japanese government to continue her graduate study in Japan. She received her M. Eng from Osaka University in 1995. She received her Ph.D from The University of Tokyo in 1998. Since 1998, she has joined Sirindhorn International Institute of Technology (SIIT), Thammasat

University as a faculty member. She is currently the deputy Director of SIIT and an Associate Professor with the school of Information, Computer, and Communication Technology, SIIT. She has authored or coauthored more than 120 journal, conference papers and books. Her research interests include H-infinity Control, Robust Control, Learning Control, Biomedical Engineering, Control Theory and its application

Report on ASCC 2019 Kita-Kyushu



ACA Outstanding Service Award presented at ASCC2019 to Prof. Tung Hen Lee (left) and Prof. Ljubo Vlacic (right).



2nd Kimura Best Paper Award, Asian Journal of Control presented at ASCC2019. From left, Professor Hidenori Kimura, Prof. Peter Baranyi (award receiver) and Professor Li-Chen Fu.



2019 ACA Temasek Young Educator Award presented at ASCC2019. From left, Professor Li Qiu, Prof. Keyou You (award receiver), Professor Takeshi Mizuno (President of ACA), Professor Tung Hen Lee.



Professor Shimemura delivered a speech at banquet of ASCC2019.

ACA SC Meeting at ASCC2019 Kita-Kyushu



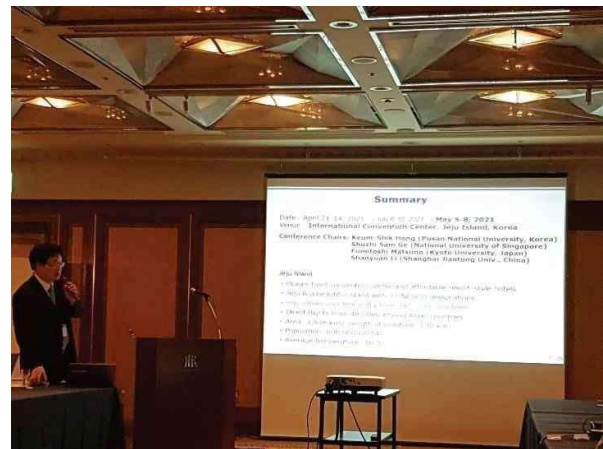
SC Members and Advisors at 2019 ACA Steering Committee Meeting in ASCC2019 Kita-Kyushu.



2019 ACA Steering Committee Meeting held at ASCC2019 Kita-Kyushu.



Professor Takeshi Mizuno delivered an opening remark at ASCC2019 Kita-Kyushu.

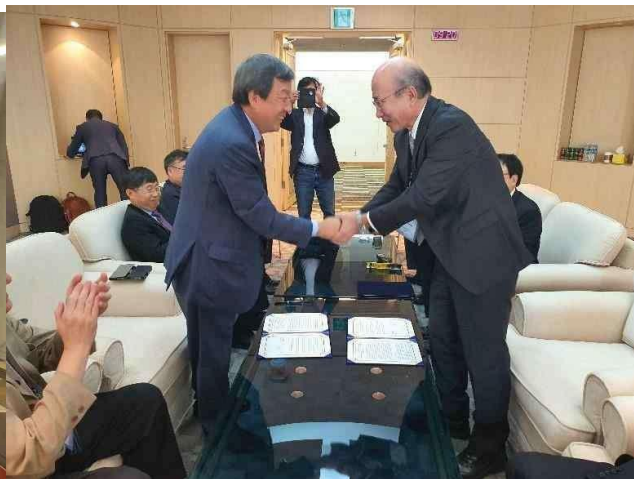


Professor Keum-Shik Hung presented at 2019 ACA Steering Committee Meeting on ASCC2021 Jeju.

2019 ACA EB Meeting ICC Jeju



SC Members and Advisors at 2019 ACA Executive Board Meeting in ICCAS 2019 ICC Jeju.



Professor Takeshi Mizuno, President of the Asian Control Association (ACA), and President of the Global EV Association Network (GEAN).



Professor Chung Choo Chung delivered an opening remark at ICCAS 2019 ICC Jeju.



MOU signing ceremony of The Asian Control Association (ACA), The Global EV Association Network (GEAN), and The International Electric Vehicle Expo (IEVE) during ICCAS 2019 ICC Jeju.

Welcome to ASCC 2021 Jeju



ASCC 2021

The 13th Asian Control Conference

May 5-8, 2021 International Convention Center, Jeju Island, Korea

<http://ascc2021.org>

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The 13th Asian Control Conference (ASCC 2021) will be held in Jeju Island, Korea. As a biennial event of the Asian Control Association (ACA), ASCC provides researchers, engineers, and professionals worldwide with excellent opportunities to get together, exchange new findings and views, and discuss the state-of-the-art technologies. The past ASCCs include Tokyo (1994, the 1st), Seoul (1997), Shanghai (2000), Singapore (2002), Melbourne (2004), Bali (2006), Hong Kong (2009), Kaohsiung (2011), Istanbul (2013), Kota Kinabalu (2015), Gold Coast (2017), and Kitakyushu (2019).

ASCC 2021 will feature plenary talks, tutorials, technical presentations of peer reviewed regular and position/industrial papers, special sessions, workshops, and exhibits. The following topics of interest are included but are not limited to:

- ✓ Artificial intelligence
- ✓ Adaptive systems
- ✓ Autonomous vehicles
- ✓ Big data
- ✓ Brain-computer interfaces
- ✓ Computational intelligence
- ✓ Communication
- ✓ Control devices, sensors and actuators
- ✓ Control theories
- ✓ Cyber physical systems and security
- ✓ Deep learning and machine learning
- ✓ Estimation and identification
- ✓ Health systems
- ✓ Industrial applications
- ✓ Intelligent control
- ✓ Mechatronics
- ✓ Medical and financial systems
- ✓ Motion and vibration control
- ✓ Neural networks
- ✓ Neuro and bio informatics
- ✓ Nonlinear control and applications
- ✓ Robotics
- ✓ Swarm intelligence

Key Dates

Regular paper submission	November 30, 2020
Organized session/position papers	January 15, 2021
Decision notification	February 15, 2021
Final camera-ready paper submission	March 15, 2021
Early-bird registration close	March 15, 2021

Submission Guidelines: The submission portal for ASCC 2021 will open on Oct. 1, 2020. All submissions must be made through the website at <http://ascc2021.papercept.net/>. When preparing the manuscript, the authors should adhere to the IEEE style for conference paper. All submitted papers must be written in English. Accepted papers are limited to 6 pages (regular paper) and 2 pages (position paper) at no extra charge. Up to two extra pages are allowed with an additional charge. All publication material for presentation must be original and hence cannot be already published, nor can it be under review elsewhere. The authors take responsibility for the material that has been submitted.



< ASCC 2021 Venue, International Convention Center, Jeju Island >



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Jeju Island

A gift from God that shines future's hope beautifully!



The Jeju Island is the only special self-governing province of South Korea. Its area is 1,848 km², its population is about 600,000, and average temperature is 16 °C. It is a very beautiful and relaxing island of nature & myth. Receiving Halla Mountain's spirit and surrounding colors of nature's gift, Jeju Island of unique culture of Tamna raises an anchor towards the Pacific. As a resort and tourist destination, the island was selected as one of the **New 7 Wonders of Nature in 2011**. Previously, the island was certified by UNESCO Triple Crown in Natural Science as

UNESCO's Biosphere Reserves (2002)

UNESCO's World Natural Heritage (2007)

UNESCO's World Geological Park (2010)

Jeju is a free international city allowing **free entry without a visa from 187 countries** including China. The island can be reached by air or cruise ship. There are many direct flights to Jeju from 48 cities in Asia. If you cannot find a direct flight from your city, go to a major city in Korea and then there are frequent domestic flights to Jeju. Also, the World Health Organization has designated Jeju as an International Safe City in 2007, 2012. To see more on Jeju Island and the World Natural Heritage, please visit at following links:
https://www.visitjeju.net/en/detail/list?menuId=DOM_000001817000000001&cate1cd=cate0000000002&p1®ion2cd&pageSize=6&sortListType=reviewcnt&viewType=thumb
<http://jejuwnh.jeju.go.kr/english/main.do>



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