


2nd International Conference on

# Mechatronics, Automation and Systems Engieering

September 18-19, 2019

Singapore City

## MECHATRONICS 2019



| Mechatronics 2019 Agenda | |
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| Day 1- September 18, 2019 | |
| Keynote Forum | |
| Keynote 1 | Title: Cooperative multi-objective control of heterogeneous vehicle platoon |
| | Yugong Luo, Tsinghua University, China |
| | Prof. Yugong Luo received the B. Tech. and M.S. degrees from Chongqing University, Chongqing, China, in 1996 and 1999, respectively, and the Ph.D. degree from Tsinghua University, Beijing, China, in 2003. He is currently an Professor at the Department of Automotive Engineering, Tsinghua University. From 2013 to 2014, he worked at University of Michigan as a visiting scholar. He has authored more than 150 journal papers and held 98 patent applications. His research interests include vehicle dynamics and control, especially for electric vehicles and intelligent & connected vehicles. He proposed the intelligent energy saving technology for electric vehicles and vehicle platoon, which was widely used in hybrid electric buses and pure electric buses in China. |
| Sessions: Mechatronics \| Optomechatronics \| Sensing and Control Systems \| The Relevant Technology Applications of Mechatronics | |
| Oral Session 1 | Title: Development of the laser-induced water bubble actuator |
| | Shigeru Omori, Teikyo Heisei University, Japan |
| | Shigeru Omori completed the Masters course from Graduate School of Electrical Engineering, Shibaura Institute of Technology in 1982. He joined Matsushita Denki Sangyo (c.k.a. Panasonic) in the same year. He was engaged in research and development of cathode ray tube and wavelength conversion device. He joined TERUMO Corporation in 1993. He was engaged in research and development of 3D television, micromachines, medical laser, and surgical manipulator at its R&D Center. He was a professor at Department of Medical Science, Faculty of Medical Science, Teikyo Heisei University in 2015. Presently, he is engaged in the development of medical laser and its application study. He is a Doctor of Medicine. |
| Oral Session 2 | Title: High power terahertz radiation emitter and terahertz imaging technology |
| | Brahm Pal Singh, Panasonic Corporation, Japan |
| | Dr. Brahm Pal Singh completed his Ph.D. in Quantum Electronics in 1990 from IIT Delhi, and D.Eng. in Quantum Engineering in 1996 from Nagoya University with Postdoctoral Studies at NPL New Delhi, India and AIST Tsukuba, Japan. Dr. Singh is a Research & Development Manager in Advanced Technologies Development Center, ES Company, Panasonic Corporation. He has published over 30 research papers in reputed journals and international conferences/symposiums and has been serving as a referee for the international reputed journals. |
| Oral Session 3 | Title: Adaptive control for high speed on/off valve to preserve dynamic performance |
| | Qi Zhong , Zhejiang University, China |
| Oral Session 4 | Title: High precision automatic mask-wafer aligner using moire sensing technology |
| | Brahm Pal Singh, Panasonic Corporation, Japan |
| Oral Session 5 | Title: Extended Adaptive Control for Electrical Discharge Machining |
| | Ming Zhou, Beijing University of Civil Engineering and Architecture, China |
| **Speaker Slot Avilable** | |
| **Speaker Slot Avilable** | |
| **Speaker Slot Avilable** | |
| **Day 2 - September 19, 2019** | |
| **Keynote Forum** | |
| Keynote 1 | Title: Polynomial Matrix Approach to the Linear Descriptor Systems |
| | Wataru Kase, Osaka Institute of Technology, Japan |
| | Wataru Kase received his BE, ME and PhD degrees from Sophia University in 1985, 1987 and 1990 respectively, and joined the Dept of Information Engineering, Nagoya University, as a research associate. In 1996, he moved to the Dept of Electrical and Electric Systems Engineering, Osaka Institute of Technology, where he is currently a professor. His research interests include linear system theory, multivariable control systems and adaptive control systems. |
| **Sessions: Biomechatronics, Sensing and Control Systems, Machine Vision System, IOT (Internet Of Things)** | |
| Oral Session 1 | Title: Determination of the critical growth rate and growth temperature for group-III elements segregation using two exchanges kinetic model |
| | Vahid R Yazdanpanah, School of Electrical Engineering, Iran University of Science & Technology(IUST), Iran |
| Oral Session 2 | Title: Flexibility of hybrid load transfer assemblies: Influence of tightening pre-stress |
| | Jose Andriamampianina, |
| **Lunch Break 12:40-13:30** | |
| Oral Session 3 | Title: Extended Adaptive Control for Electrical Discharge Machining |
| | Ming Zhou, Beijing University of Civil Engineering and Architecture, China |
| **Speaker Slot Avilable** | |
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Moments from Previous Edition of Mechatronics 2019

## City Attractions





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