

ICCSE 2019

The 14th International Conference on
Computer Science and Education

August 19-21, 2019



TORONTO



UNIVERSITY
OF ONTARIO
INSTITUTE OF TECHNOLOGY

Toronto, Ontario, Canada

Invited Sessions Application Form

Topic: *Smart Mechatronics and Robotics Systems*

Chair(s):

Dr. Ying Wang, Kennesaw State University, USA, ying.wang@kennesaw.edu

Dr. Clarence W. de Silva, University of British Columbia, Canada, desilva@mech.ubc.ca

Abstract

In the past years, smart mechatronics and robotics systems have attracted more attentions because machine learning, computer vision and advanced controls are usually integrated together in these systems that show more flexible and intelligent behaviors. For promoting the development of smart mechatronics and robotics systems, the ICCSE conference is held on August 19 to 21, 2018. This session is intended to provide a forum for colleagues in smart mechatronics and robotics areas to share their experiences and new research achievements.

Topics are included but not limited to:

- Intelligent robots and mechatronics products
- Autonomous vehicles or robots
- Machine learning applications in robotics
- Vision based robotic or mechatronics systems
- Advanced control of autonomous robots or self-driving vehicles
- Deep learning and neural network technologies

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Short Bio of Chairs



learning.

Ying Wang received his Ph.D. degree in robotics and mechatronics from The University of British Columbia (UBC), Vancouver, BC, Canada in 2008. He also received his master's degree (1999) and bachelor's degree (1991) from Shanghai Jiao Tong University, China. He is now an associate professor in Department of Mechatronics Engineering at Kennesaw State University, Marietta, Georgia, 30060, USA. Dr. Wang's research interests are within the areas of robotics, controls, mechatronics and machine



Clarence W. de Silva received his Ph.D. degrees from Massachusetts Institute of Technology (1978); and University of Cambridge, U.K. (1998); and honorary D.Eng. degree from University of Waterloo, Canada (2008). He is a Professor of Mechanical Engineering and has held the NSERC-BC Packers Chair in Industrial Automation, at the University of British Columbia, Vancouver, Canada since 1988. He occupies the Tier 1 Canada Research Chair in Mechatronics & Industrial Automation. Dr. de Silva is a Fellow of the Royal Society of Canada; ASME; the Canadian Academy of Engineering; and a registered Professional Engineer of British Columbia. He has authored 19 books, 181 journal articles, 18 edited volumes, 43 book chapters, and 207 conference papers. He was a Senior Fulbright Fellow at University of Cambridge; Erskine Fellow at University of Canterbury, New Zealand; Lilly Fellow at Carnegie Mellon University; NASA/ASEE Fellow; Advanced Systems Institute of BC Fellow; and Killam Fellow. He has served on editorial boards of 12 international journals including IEEE and ASME Transactions, and as Editor-in-Chief of the International Journal, Control and Intelligent Systems, Editor-in-Chief of International Journal of Knowledge-Based Intelligent Engineering Systems; Regional Editor, North America for the IFAC International Journal—Engineering Applications of Artificial Intelligence; and Senior Technical Editor of Measurements and Control. Dr. de Silva has held the Mobil Endowed Professorship in the Department of Electrical and Computer Engineering at the National University of Singapore and Honorary Chair Professorship at the National Taiwan University of Science and Technology.