Special Session Title:

Advanced Control and Optimization in Mechatronic and Robotic Systems

Description:

The integration of electrical, electronic and mechanical systems in modern machines requires increasingly advanced control techniques to ensure efficient and effective operation.

This special session is devoted to the dissemination of results, both theoretical and applied, concerning control and optimization in mechatronic and robotic systems. Techniques may be implemented on-line, through feedback control, or off-line, by using process and design optimization tools. Studies in new and emerging application areas are encouraged, especially, but not exclusively, in the following areas:

- Machines for mechanical processing and manipulation
- Robotic path planning and motion control
- Novel actuation and sensing techniques
- Mobile robots and unmanned aerial vehicles
- Electric vehicles, automotive control and autonomous vehicles
- Mechatronics applications in emerging fields such as renewable energy, space exploration, medical robotics, etc.

Special Session Co-Chairs:

Prof. Dr. Matthew Cole  
Email: motcole@dome.eng.cmu.ac.th  
Chiang Mai University, Thailand

Assoc. Prof. Dr. Theeraphong Wongratanaphisan  
Email: theeraphong.wong@cmu.ac.th  
Chiang Mai University, Thailand

Assist. Prof. Dr. Niti Kammuang-lue  
Email: niti@eng.cmu.ac.th  
Chiang Mai University, Thailand