



<http://www.smc2016.org/>

Special Session Call for Papers SMC2016 Special Session on Medical Mechatronics

Special Session organizer

Dr. Ming-Yih Lee

Professor

Graduate Institute of Medical Mechatronics, Chang Gung University, Tao-Yuan, Taiwan

E-mail: leemiy@mail.cgu.edu.tw

Co-organizers:

Dr. Yi-Hung Liu

Associate Professor

Department of Mechanical Engineering, National Taipei University of Technology, Taipei, Taiwan

E-mail: yhliu@ntut.edu.tw

Dr. Chung-Hsien Kuo

Professor

Department of Electrical Engineering, National Taiwan University of Science and Technology, Taipei, Taiwan

E-mail: chkuo@mail.ntust.edu.tw

Introduction/Call for Papers

Medical mechatronics is an important engineering topic in the 21 century. Developments of medical mechatronic systems needs the integration of technologies within the medical domain knowledge, clinical operation protocol, artificial intelligence, software engineering, network and information technology, electric control system design and mechanical system design. Therefore, the medical mechatronics is discussed based on the systematic system design, healthcare, and cybernetic intelligence applications. The “medical mechatronics” special session presents the papers within new and important technologies that were developed in the medical applications. Hence, the “emerging technologies in medical mechatronics” special session fits the theme of the SMC conference. This special session will focus on the emerging technologies of medical mechatronics systems through case studies and reports on clinical applications.

Indicative Topics/Areas

This special session invites papers that describe not only solving the clinical problems, but also emphasizing the practical hands-on development procedures and integration of mechatronics components. Solicited topics include (but are not limited to): Smart medical devices, body sensor networks, rehabilitation systems, human/brain-computer interfaces, medical robots, intelligent wheelchairs, healthcare systems, and medical instruments.

The special session is submitted to Section:[A]

A: Systems Science & Engineering

B: Human-Machine Systems

C: Cybernetics

Important Dates

April 15, 2016: Deadline for submission of full-length papers to special sessions.

May 25, 2016: Acceptance/Rejection Notification.

July 9, 2016: Final camera-ready papers due in electronic form.

Submission

Manuscripts for a Special Session should **NOT** be submitted in duplication to any other regular or special sessions and should be submitted to SMC 2016 main conference online submission system on SMC 2016 conference website.

All submitted papers of Special Sessions have to undergo the same review process (three completed reviews per paper). The technical reviewers for each Special Session paper will be members of the SMC 2016 Program Committee and qualified peer-reviewers to be nominated by the Special Session organizers.