



CALL FOR PAPERS

International Symposium on Measurement and Control in Robotics

“Robotics for the Benefits of Humanity”

ISMCR 2019

19-21 September 2019, Houston, Texas, USA



Organized by:
IMEKO Technical Committee
on Robotics, TC-17

Technical Sponsorship By:
IEEE Aerospace & Electronic Systems Society
IEEE Instrumentation and Measurement Society
IEEE Robotics and Automation Society
AIAA-American Inst. of Aeronautics & Astronautics
Clear Lake Council of Technical Societies

HOSTED BY:	SCOPE	TOPICS
<p>University of Houston-Clear Lake UHCL</p>		
<p>ISMCR Symposium Committee</p>		
<p>General Chair Dr Zafar Taqvi, University of Houston-Clear Lake, USA</p>	<p>The symposium will focus on various aspects of international research, applications and trends of robotic innovations for the benefit of humanity, advanced human-robot systems and applied technologies, e.g. in the fields of robotics, telerobotics, simulator platforms and environment and mobile work machines as well as virtual reality/augmented reality and 3D modelling and simulation. The symposium will consist of keynote presentations on the state-of-the-art technology, workshops and topical panels. All papers will have peer review and will be published with IMEKO and IEEE Guidelines.</p>	<p>In general, contributions regarding all aspects of recent developments in robotics technologies are welcome. Presentations addressing the specific theme of ISMCR 2019 are especially encouraged. Papers may fall under, but not be limited to the following topics:</p>
<p>General Vice Chair Prof. Yvan Baudoin, Belgium, Prof. Masahiko Inami, Japan</p>		
<p>Symposium Advisors Prof Susumu Tachi, Japan, Norman Chaffee, CLCTS/USA, Reese Terry, IEEE Fellow</p>	<p>PARTICIPANTS</p>	<ul style="list-style-type: none"> ▪ Advanced Controls and Actuators ▪ New Power Supplies
<p>Symposium Program Chair Dr Thomas L. Harman, UHCL, Conference Program Committee</p>	<p>As in previous ISMCR Conferences, ISMCR 2019 is intended to be a forum for the exchange of recent research results and ideas in robotic technologies and applications; this time with specific reference to service to humanity. It should be of interest to a wide range of participants from government agencies, relevant international institutions, universities, research organizations, robotics and automated vehicle companies, as well as media and the general public. The conference should serve as an opportunity for networking and fruitful exchange with fellow participants on topics of mutual interest.</p>	<ul style="list-style-type: none"> ▪ Methods of Artificial Intelligence in Robotics ▪ Humanoid, Climbing/Walking, Service, and Autonomous Robots
<p>Finance Chair Dr Ishaq Unwala, UHCL/USA</p>		<ul style="list-style-type: none"> ▪ Anthropomorphic Robots/Mobile Robots ▪ Telexistence / Telepresence
<p>Publication Chair Dr Trung Pham, University of Talca, Chile</p>	<p>PAPER SUBMISSION</p>	<ul style="list-style-type: none"> ▪ Augmented Reality / Mixed Reality / Virtual Reality ▪ Communication with Realistic Sensations
<p>Internet/Social Media Liaison Sarah Taqvi, University of Houston Journalism Department</p>	<p>Prospective participants are invited to submit electronically abstracts and then full papers of their work, following the instructions available on the web page.</p>	<ul style="list-style-type: none"> ▪ Intelligent CAD and IMS ▪ Visual and Auditory Displays
<p>Registration Chair Dr. Irfan Khan, Texas A&M University</p>	<p><i>All accepted papers will be published in the conference proceedings, which will be available at the time of the conference. Presented papers will be recommended for publication in IEEE Xplore, Scopus and Web of Science (THOMSON REUTERS Conference Proceedings Citation Index).</i></p>	<ul style="list-style-type: none"> ▪ Tools and Techniques for Modeling VR Systems ▪ Real Time Computer Simulation
<p>Logistics Coordinator Michelle Patrick, ADAK Digital Inc.</p>	<p>As the previous ISMCRs, after the conference, the extended and enhanced versions of the selected papers will be considered for publication in the IMEKO Publication</p>	<ul style="list-style-type: none"> ▪ Software Architectures for VR ▪ VR Interaction and Navigation Techniques, Distributed VR Systems and Motion Tracking
<p>International Program/Symposium Committee & Members of the IMEKO Technical Committee on Measurement in Robotics (TC17)</p>	<p>IMPORTANT DATES</p>	<ul style="list-style-type: none"> ▪ VR Input and Output Devices ▪ Innovative Applications of VR
<p>Chairman: Dr Zafar Taqvi, University of Houston-Clear Lake (USA)</p>	<p>Abstracts submission 19th April 2019</p>	<ul style="list-style-type: none"> ▪ Human Factors in VR ▪ Evaluation of VR Techniques and Systems
<p>Vice Chair: Prof. Yvan Baudoin (Belgium)</p>	<p>Abstract acceptance to authors 9th May 2019</p>	<ul style="list-style-type: none"> ▪ Internet and VRML Application of VR in all areas ▪ Interactive Art and Entertainment
<p>Scientific Secretary: Prof. Masahiko Inami (Japan)</p>	<p>Submission of full paper for review 9th June 2019</p>	<ul style="list-style-type: none"> ▪ Artificial Life ▪ Education and Entertainment Robots
<p>Chair Emeritus: Prof Susumu Tachi (Japan)</p>	<p>Notification of paper acceptance 15th July 2019</p>	<ul style="list-style-type: none"> ▪ Medical and Healthcare Robots ▪ Micro and Nano Robots
<p>▪ Professor Balint KISS, Budapest BME University (Hungary)</p>	<p>Submission of camera ready paper 15th August 2019</p>	<ul style="list-style-type: none"> ▪ Innovative Robotics Applications
<p>▪ Professor Andrzej Maslowski, NASK (Poland)</p>		
<p>▪ Professor Giovanni Muscato, University of Catania (Italy)</p>		
<p>▪ Professor Lino Marques, University of Coimbra (Portugal)</p>		
<p>▪ Professor Valery Gradetsky, Institute for Problems in Mechanics Moscow (Russia)</p>		
<p>▪ Professor Peter Kopacek, Technical University TU Wien, IHRT (Austria)</p>		
<p>▪ Professor Andrej Babinec, Slovak University of Technology in Bratislava (Slovakia)</p>		
<p>▪ Professor Karsten Berns, University of Kaiserslautern (Germany)</p>		
<p>▪ Professor Ioan Doroftei, Technical University of Iasi (Romania)</p>		
<p>▪ Professor Kenneth Grattan, Royal Academy of Engineering (UK)</p>		
<p>▪ Professor Jean Guy Fontaine, Centre for Maritime Research and experimentation La Spezia (Italy)</p>		
<p>▪ Professor Jaromir Volf, Czech University of Life Sciences Prague, Czech Republic</p>		
<p>▪ Professor Toshio Fukuda, IEEE President Elect, Japan</p>		
<p>▪ Professor Dusan Simsik, Slovak Republic</p>		
<p>▪ Ms. Xue Zi, China</p>		