



INVITED SESSION SUMMARY

Title of Session:	Bioengineering Applications
Name, Title and Affiliation of Chair: School of Science	<i>Dr Milan Simic</i> RMIT University, School Engineering, Melbourne, Australia <i>Dr Maria Spichkova</i> RMIT University, School of Science, Melbourne, Australia
Details of Session (including aim and scope):	<p>This session presents a comprehensive approach to the disciplines of Bioengineering and Biomedical Engineering. It covers combination of software engineering, computing, electronics, electrical, mechanical and chemical engineering, in the role of medical applications. Generally, application of engineering principles to living structures is known as bioengineering, while biomedical engineering covers concepts and design of medical equipment. Research into the development and application of eHealth for assessment and management of various conditions will be considered. This may include, use of smartphone sensors, applications for tracking health, applications for delivery of therapy, and management of health data.</p> <p>The list of topics for this session includes but is not limited to:</p> <ul style="list-style-type: none">• Artificial hips, knees and other joints,• Prosthesis,• Physiotherapy treatments and equipment,• Ultrasound,• MRI and other medical imaging techniques, EKG/ECG,• Clinical equipment,• Micro-implants,• Regenerative tissue growth,• Pharmaceutical drugs,• eHealth,• Telemedicine,• Health informatics.
Main Contributing Researchers / Research Centres (tentative, if known at this stage):	Australia-India Research Centre for Automation Software Engineering (AICAUSE) Dr Milan Simic, Associate Director of AICAUSE, School of Engineering, RMIT University, Australia Dr Maria Spichkova, Associate Director of AICAUSE, School of Science, RMIT University, Australia
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