



INTERNATIONAL

INVITED SESSION SUMMARY

Title of Session:

Advances in Bioengineering Applications

Name, Title and Affiliation of Chair:

Dr Milan Simic

School of Engineering, RMIT University, Melbourne, Australia

Details of Session (including aim and scope):

This session presents a comprehensive approach to the disciplines of Bioengineering and Biomedical Engineering. It covers combination of software engineering, computing, electronics, electrical, mechanical, mechatronics 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 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.

The list of topics for this session includes but is not limited to:

- Artificial hips, knees, and other joints,
- Prosthesis,
- Physiotherapy treatments and equipment,
- Ultrasound,
- MRI and other medical imaging techniques,
- EKG/ECG,
- Medical image fusion
- Clinical equipment,
- Micro-implants,
- Regenerative tissue growth,
- Pharmaceutical drugs,
- eHealth,
- Telemedicine,
- Health informatics.

Main Contributing Researchers / Research Centres (tentative, if known at this stage):

Dr Milan Simic,

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Website URL of Call for Papers (if any):**Email & Contact Details:**

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