



BIODEVICES 2018 11th International Conference on Biomedical Electronics and...

Date : Jan 19, 2018 - 09:00 AM - Jan 21, 06:00 PM

Event URL : <http://www.nyeeventslist.com/events/biodevices-2018-11th-international-conference-on-biomedical-electronics-and>

Organizer : New York Media Technologies LLC in association with INSTICC

Venue :

Location : Hotel Vila Galã© Santa CruzRua SÃ£o Fernando, 59100-173 Santa CruzPortugal, Santa Cruz, Santa Cruz, US, ZIP: Portugal



Description

BIODEVICES is sponsored by INSTICC – Institute for Systems and Technologies of Information, Control and Communication

SCOPE

The purpose of the International Conference on Bio-Devices is to bring together researchers and practitioners from electronics, mechanical engineering, physics and related areas who are
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interested in developing, studying and using innovative materials, devices and systems inspired by biological systems and/or addressing biomedical requirements. Monitoring and diagnostics devices, sensors and instrumentation systems, biorobotics and prosthetics, micro-nanotechnologies including microfluidics systems and biomaterials are some of the technologies addressed at this conference. The fabrication and evaluation of biodevices, including wearable and implantable devices is also addressed.

BIODEVICES encourages authors to submit papers to one of the main topics indicated below, describing original work, including methods, techniques, advanced prototypes, applications, systems, tools or general survey papers, reporting research results and/or indicating future directions. Accepted papers will be presented at the conference by one of the authors and published in the proceedings. Acceptance will be based on quality, relevance and originality. There will be both oral and poster sessions.

The proceedings will be indexed by several major international indexers.

Special sessions are also welcome. Please contact the secretariat for further information on how to propose a special session.

CONFERENCE TOPICS

- Emerging Technologies
- Biomedical Instrumentation
- Biomedical Equipment
- Biomedical Sensors
- Biomedical Metrology
- Health Monitoring Devices
- Low-power Design
- Electrical Bio-impedance
- Bio-electromagnetism
- Biorobotics
- Implantable Electronics
- Wireless Systems and Biotelemetry
- Biomaterials
- MEMS
- Nanotechnologies
- Biomechanical Devices
- Prosthetics
- Technologies Evaluation
- Electrocardiography and Heart Monitoring
- Brain-computer Interfaces
- Spectroscopic Applications
- Imaging and Visualization Devices
- Rehabilitation Technology
- Lab on a Chip and Microfluidic Devices
- Wearable and Mobile Devices

- Diagnostic devices
- Radio/Photo therapy devices
- Biodevice fabrication
- Energy Harvesting for biodevices

BIOSTEC KEYNOTE SPEAKERS

Anatole Lécuyer, Inria Rennes/IRISA, Hybrid Research Team, France

Corina Sas, Lancaster University, United Kingdom

Dinesh Kumar, RMIT University, Australia

Maximiliano Romero, Università luav di Venezia, Italy

PAPER SUBMISSION

Authors should submit a paper in English, carefully checked for correct grammar and spelling, addressing one or several of the conference areas or topics. Each paper should clearly indicate the nature of its technical/scientific contribution, and the problems, domains or environments to which it is applicable. To facilitate the double-blind paper evaluation method, authors are kindly requested to produce and provide the paper **WITHOUT** any reference to any of the authors, including the authors' personal details, the acknowledgments section of the paper and any other reference that may disclose the authors' identity.

Only original papers should be submitted. Authors are advised to read INSTICC's ethical norms regarding plagiarism and self-plagiarism thoroughly before submitting and must make sure that their submissions do not substantially overlap work which has been published elsewhere or simultaneously submitted to a journal or another conference with proceedings. Papers that contain any form of plagiarism will be rejected without reviews.

Authors can submit their work in the form of a Regular Paper, representing completed and validated research, or as a Position Paper, portraying a short report of work in progress or an arguable opinion about an issue discussing ideas, facts, situations, methods, procedures or results of scientific research focused on one of the conference topic areas. All papers must be submitted through the online submission platform PRIMORIS and should follow the instructions and templates that can be found under Guidelines and Templates. After the paper submission has been successfully completed, authors will receive an automatic confirmation e-mail.

PUBLICATIONS

All accepted papers will be published in the conference proceedings, under an ISBN reference, on paper and on CD-ROM support.

SCITEPRESS is a member of CrossRef and every paper on our digital library is given a DOI

(Digital Object Identifier).

All papers presented at the conference venue will be available at the SCITEPRESS Digital Library.

It is planned to publish a short list of revised and extended versions of presented papers with Springer in a CCIS Series book (final approval pending).

The proceedings will be submitted for indexation by Thomson Reuters Conference Proceedings Citation Index (CPCI/ISI), INSPEC, DBLP, EI (Elsevier Engineering Village Index) and Scopus.

IMPORTANT DATES

Conference Date: 19 - 21 January, 2018

Regular Papers

Paper Submission: September 5, 2017 (extended)

Authors Notification: October 16, 2017

Camera Ready and Registration: October 30, 2017

Position Papers

Paper Submission: September 29, 2017

Authors Notification: November 7, 2017

Camera Ready and Registration: November 20, 2017

Workshops

Workshop Proposal: August 31, 2017

Doctoral Consortium

Paper Submission: November 9, 2017

Authors Notification: November 22, 2017

Camera Ready and Registration: December 5, 2017

Special Sessions

Special Session Proposal: August 31, 2017

Paper Submission: November 7, 2017

Authors Notification: November 21, 2017

Camera Ready and Registration: November 29, 2017

Tutorials

Tutorial Proposal: November 24, 2017

Demos

Demo Proposal: November 24, 2017

Panels

Panel Proposal: November 24, 2017

SECRETARIAT

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Xian-En Zhang, Institute of Biophysics, Chinese Academy of Sciences, China

Keynote Lecture

□ **Anatole Lécuyer**

Inria Rennes/IRISA, Hybrid Research Team
France

Brief Bio

Anatole Lécuyer is senior researcher and head of Hybrid team at Inria (Rennes, France), the French National Institute for Research in Computer Science and Control, that he joined in 2002. His main research interests are in the field of Virtual Reality, and more specifically on 3D User

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Interfaces, Haptic Feedback, 3D Visual Displays, and Brain-Computer Interfaces (BCI). He has been involved often as coordinator or principal investigator in various National or International research projects such as in OpenViBE software for Brain-Computer Interfaces, French ANR projects “OpenViBE1” (05-09) and “OpenViBE2” (09-12) on Brain-Computer Interfaces and Virtual reality, European Strep project “NIW” (08-11) on Augmented Walking, and the European Network of Excellence “INTUITION” (05-08) on Virtual Reality. He regularly serves as expert in Virtual Reality and BCI for public bodies such as European Commission (EC) or French National Research Agency (ANR). He is involved in program committees of major conferences of his field (IEEE VR, IEEE 3DUI, Eurohaptics, Eurographics, etc) and was notably program co-chair of IEEE VR 2015, and IEEE 3DUI 2013. He is an associate editor of Frontiers in Virtual Environments and Presence, and formerly of ACM Transactions on Applied Perception (ACM TAP) and International Journal of Human-Computer Studies (IJHCS).

Keynote Lecture

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Corina Sas
Lancaster University
United Kingdom

Brief Bio

Dr Sas builds on extensive expertise in Human Computer Interaction and user experience to design technologies for wellbeing and health, including those for self-monitoring, self-awareness and self-regulation. She has been Associate Chair for the top ACM Computer Human Interaction and Designing Interactive Systems conferences, Chair of British Human Computer Interaction conference, and served in Programme Committees in over 20 conferences. Her work has received extensive media covers including The Times, The New Scientist, Daily Mail, CBS, NBC, Medical Daily, Science Daily, News medical, and Health Medicine Network, as well as San Francisco radio, BBC 5 live radio, and BBC Hereford and Worcester radio. For her work on technologies for mindfulness she was mentioned in the TransTech200 (2016): an annual list of key innovators developing science-based research that significantly increases mental and emotional wellbeing. She has over 80 peer-reviewed publications, and has been an investigator on grants totalling over £10.5 million.

Keynote Lecture

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□ **Dinesh Kumar**
RMIT University
Australia

Brief Bio

Dinesh research interests are related to medical applications of signals and image processing and the use of machine learning to classify medical signals. He is a member of the expert panel for prosthetic hand control (EU supported committee) and member on Therapeutic Goods Administration the advisory panel to ministry of health for medical devices. Dinesh has also extensive experience in technology translation and been successful with two technology start-up ventures.

Dinesh has received over \$4 million in research funds over the past 12 years in research funding. He has published over 400 papers and authored 3 books, and has been cited about 4400 times. He is Associate editor for IEEE Transactions for neural systems and rehabilitation engineering.

Abstract

There has been significant progress in medical technology that provides early stage and detailed diagnosis of many diseases. This has enhanced the longevity and quality of life and we are now living longer and healthier, and significantly more independent. We are also able to perform relevant functional activities for significant period. However, many of these diagnostics can be performed only in major hospitals and require significant infrastructure such as qualified personnel, buildings, and electricity. This greatly limits the benefits of the technologies to be located in large urban centres.

Dinesh has been working towards changing the above paradigm and works for the development of diagnostic devices that are suitable for being used in remote regions by untrained healthcare personnel. Such devices provide automation of recording and analysis of the data, thereby do not require large buildings, and are suitable for the target audience. The success of such diagnostic devices is based on the development of advanced image and signal processing techniques that makes these devices noise tolerant and provide good quality diagnostics without high quality infrastructure.

This seminar, Dinesh will discuss the process and provide examples of such technologies.

Keynote Lecture

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Maximiliano Romero

Università luav di Venezia

Italy

Please contact the event manager Marilyn below for the following:

- Discounts for registering 5 or more participants.
- If you company requires a price quotation.

Event Manager Contact: [marilyn.b.turner\(at\)nyeventslist.com](mailto:marilyn.b.turner@nyeventslist.com)

You can also contact us if you require a visa invitation letter, after ticket purchase.

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