BIOIMAGING 2018 - 5th International Conference on BioImaging (ins)

Date : Jan 19, 2018 - 07:00 AM - Jan 21, 10:00 AM

Event URL : http://www.nyeventslist.com/events/bioimaging-2018-5th-international-conference-on-bioimaging-ins-jan-2018

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

Bioimaging is a term that covers the complex chain of acquiring, processing and visualizing structural or functional images of living objects or systems, including extraction and processing of image-related information. Examples of image modalities used in bioimaging are many, including: X-ray, CT, MRI and fMRI, PET and HRRT PET, SPECT, MEG and so on. Medical imaging and microscope/fluorescence image processing are important parts of bioimaging referring to the techniques and processes used to create images of the human body, anatomical areas, tissues, and so on, down to the molecular level, for clinical purposes, seeking to reveal,

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diagnose, or examine diseases, or medical science, including the study of normal anatomy and physiology. Image processing methods, such as denoising, segmentation, deconvolution and registration methods, feature recognition and classification represent an indispensable part of bioimaging, as well as related data analysis and statistical tools.

CONFERENCE CO-CHAIRS

Hugo Gamboa, LIBPHYS-UNL / FCT - New University of Lisbon, Portugal

Ana Fred, Instituto de Telecomunicações / IST, Portugal

Sergi Bermudez i Badia, Madeira Interactive Technologies Institute/Universidade da Madeira, Portugal

PROGRAM CHAIR

Sheldon Wiebe, University of Saskatchewan, Canada

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 Iuav di Venezia, Italy

WORKSHOPS

Artificial Intelligence for Health - AI4Health (BIOSTEC)

Chairs: Giovanna Sannino and Ivanoe De Falco

Submission: November 7, 2017

SPECIAL SESSIONS

Knowledge Acquisition and Learning in Semantic Interpretation of Medical Image Structures - KALSIMIS

Chairs: Piotr Szczepaniak, Piotr Grzelak and Arkadiusz Tomczyk

Submission: November 7, 2017

Denoising Methods for Bioimaging: Advances in Theory and Implementations - DMB

Chair: Jan Schier

Submission: November 7, 2017

DOCTORAL CONSORTIUM

Chair: Jan Schier

Submission: November 9, 2017

OPEN COMMUNICATIONS

Submission: November 9, 2017

Important Dates

Conference

Regular Papers

Paper Submission: September 5, 2017 (extended)

Authors Notification: October 16, 2017

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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
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Keynote Lectures

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

Available Soon
Corina Sas, Lancaster University, United Kingdom

Available Soon
Dinesh Kumar, RMIT University, Australia

Available Soon
Maximiliano Romero, Università Iuav di Venezia, Italy

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 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 is 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.

Keynote Lecture

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Maximiliano Romero
Università Iuav di Venezia
Italy

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