BIOINFORMATICS 2018 - 9th International Conference on BioInformatics

Date : Jan 19, 2018 - 09:00 AM

Event URL : http://www.sfbayeventslist.com/events/bioinformatics-2018-9th-international-conference-on-bioinformatics-jan-2018

Organizer : NYMT

Venue :

Location : Hotel Vila Galé Santa CruzRua São Fernando, 59100-173 Santa CruzPortugal, Santa Cruz, Portugal, US, ZIP: 59100-173

The purpose of the International Conference on Bioinformatics Models, Methods and Algorithms is to bring together researchers and practitioners interested in the application of computational systems, algorithmic concepts and information technologies to address challenging problems in Biomedical research with a particular focus on the emerging problems in Bioinformatics and computational biology. There is a tremendous need to explore how mathematical, statistical and computational models can be used to better understand biological processes and systems, while developing new methodologies and tools to analysis the massive currently-available biological data. Areas of interest to this community include systems biology, sequence analysis, biostatistics, image analysis, network and graph models, scientific data management and data mining, machine learning, pattern recognition, computational evolutionary biology, computational genomics and proteomics, and related areas.
CONFERENCE CO-CHAIRS
Hugo Gamboa, LIBPHYS-UNL / FCT - New University of Lisbon, Portugal
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PROGRAM CHAIR
Paul Anderson, College of Charleston, United States
KEYNOTE SPEAKERS
Anatole Lécuyer, Inria Rennes/IRISA, Hybrid Research Team, France
Corina Sas, Lancaster University, United Kingdom
Dinesh Kumar, RMIT University, Australia

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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

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
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

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

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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

Corina Sas
Lancaster University
United Kingdom

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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

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.
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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

Maximiliano Romero
Università Iuav di Venezia
Italy

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