

WHC 2018 Wearable HealthCare (ins)

Date : Jan 19, 2018 - 08:00 AM

Event URL : <http://www.sfbayeventslist.com/events/whc-2018-wearable-healthcare-ins-jan-2018-1513783882>

Organizer : NYMT

Venue :

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

Special Session on Wearable HealthCare - WHC 2018

19 - 21 January, 2018 - Funchal, Madeira, Portugal

Within the 11th International Conference on Biomedical Electronics and Devices - BIODEVICES 2018

CO-CHAIRS

▣ **Vitor Carvalho**

IPCA & Algoritmi Research Centre, UM
Portugal

Brief Bio

Vitor Carvalho received in 2008 his PhD in degree in industrial electronics, in the option of industrial informatics. He is currently working as associate professor at the Polytechnic Institute of Cávado and Ave (IPCA), Barcelos, Portugal as well as integrated researcher of the Algoritmi Research Centre at Minho University, were it is associated the Digital Games Research Centre (IPCA). He is also the Head of the Master in Electronic s and Computer Engineering and President of the Technical Scientific Council at the School of Technology (IPCA). His main fields

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of interest are related with data acquisition systems and serious games. He has published more than 100 papers, being also a member of the editorial board of several international conferences and journals.

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Filomena Soares

Algoritmi Research Centre, UM
Portugal

Brief Bio

Filomena O. Soares received her degree in Chemical Engineering in 1986 at Porto University, Portugal. In 1997, she obtained her PhD in Chemical Engineering at the same University. Since 1992 she works in the Industrial Electronics Department Minho University and she develops her research work in R&D Algoritmi Centre. Her main scientific interests are in the areas of System Modeling and Control, with application to bioprocesses and in Biomedical Engineering Science. Motor and cognitive rehabilitation has been receiving her attention, using serious games and robots to foster the communication with impaired and typically developing children. She is interested in new teaching/learning methodologies, in particular blended-learning and virtual and remote laboratories. She supervised several Msc and PhD thesis and was co-author of several scientific articles in international conferences and journals.

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José Machado

CT2M, UM
Portugal

Brief Bio

José Machado received his PhD degree in Mechanical Engineering – Automation, from University of Minho, Portugal (and, in simultaneous, from Ecole Normale Supérieure de Cachan, France) in 2006. He is Assistant Professor at Mechanical Engineering department of University of Minho. He has authored, or co-authored, more than 150 refereed journal and conference proceeding papers. He has coordinated - and participated as collaborator - in several Research Projects on Mechatronics and Automation domains and his main interests are related with mechatronic design, design of medical devices and design and analysis of dependable controllers for obtaining dependable mechatronic systems. He is member of IEEE and member of IFAC.

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Demétrio Matos

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IPCA & CT2M, UM
Portugal

Brief Bio

Demétrio Matos received her degree in Industrial Design in 2002 at ESAD College of Art and Design, Portugal. In 2016, he obtained her PhD in Design, from Faculty of Architecture, University of Lisbon, Portugal. He is Adjunct Professor at Industrial Design Department of the Design School in The Polytechnic Institute of Cávado and Ave (IPCA). His main interests are related to the areas of product development and inclusive design. In recent years it has focused its research on the design of medical devices.

SCOPE

MOTIVATION:

Wearable HealthCare is part of the actual human daily life. Nowadays, we are able to find these devices and systems practically everywhere, as integrated, among others, in our homes, body, mobile devices and vehicles, with the objective of improving our safety, comfort, performance and quality of life.

Following this trend, we invite investigators, academics and professionals to submit original research and review articles that will contribute to the dissemination of Wearable HealthCare in the Engineering domain.

TOPICS:

Potential topics include, but are not limited to:

- Mobile healthcare;
- Home healthcare;
- Wearable healthcare;
- In-Car healthcare;
- Body sensor/area networks;
- “Intelligent” medical devices and systems;
- Ambient assistive living;
- Tele-healthcare.

Important Dates

Conference

Regular Papers

Paper Submission: September 5, 2017 (extended)

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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

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 luav 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

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

□ **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

□ **Maximiliano Romero**
Università luav di Venezia
Italy

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