

SenSIP Seminar Series

Quantitative Imaging for Precision Medicine

Presenter: Constantinos Pattichis, FIEEE

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Abstract

This presentation introduces how quantitative imaging can be exploited within the context of precision medicine. It provides a brief overview of select studies that have been conducted under the precision medicine initiative in the U.S.A, exploiting the joint processing of imaging, genomics, and clinical data. More specifically, radiogenomics approaches that have been performed for breast invasive carcinoma, describing key technologies and outcomes, while highlighting future directions will be presented.

Biography:



Dr. Pattichis is currently Professor with the Department of Computer Science at the University of Cyprus. His research interests include ehealth and mhealth, medical imaging, biosignal analysis, life sciences informatics, and intelligent systems. He has been involved in numerous projects in these areas funded by EU, the National Research Foundation of Cyprus, the INTERREG and other bodies, with a total funding managed close to 10 million Euros. He is Co-Principal Investigator of the EU H2020-WIDESPREAD-04-2017-Teaming Phase 1 project “Integrated Precision Medicine Technologies Research Centre of Excellence (IPMT)”. He has published 100 refereed journal, 220 conference papers, and 28 chapters in books and co-edited 18 journal special issues and 17 conference proceedings. His work has generated close to 7000 citations and an h-score of 41. He is Co-Editor of the handbook Speckle Filtering and Tracking in Cardiovascular Ultrasound Imaging and Video, published by IET in 2018 and he is Co-Editor of the books M-Health: Emerging Mobile Health Systems, and of the Ultrasound and Carotid Bifurcation Atherosclerosis, published by Springer in 2006, and 2012 respectively. He is a Fellow of IEEE, Fellow of IET and Fellow of the International Academy of Medical and Biological Engineering (IAMBE).

Refreshments

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