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BIOMEDICAL AND HEALTH INFORMATICS (BHI'19)

Jointly Organised With

THE 16TH IEEE-EMBS INTERNATIONAL
CONFERENCE ON WEARABLE AND IMPLANTABLE
BODY SENSOR NETWORKS (BSN'19)



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Workshop/Tutorial title:

Modelling in bioengineering and
bioinformatics

Organizers

Prof. Nenad Filipovic
Faculty of Engineering
University of Kragujevac, Serbia

Short
description

Computational methods, big data analytics, machine learning, artificial intelligence, bioinformatics, give opportunity for a patient-specific model in order to improve the quality of prediction for the disease progression into life-threatening events that need to be treated accordingly. Authors will present with advanced research support tools for disease characterization, and the integrative informatics; associations among heterogeneous data, that can improve the predictive power of the patient specific model.

Contents

Akira Tsuda, Harvard School of Public Health, Boston, Massachusetts, USA ,

Computational platform to quantify morphological changes of lung

Darko Babic, FFE, LLC, Phoenix, Arizona, USA,

Nonlinear stent material modeling

Prof. Srbotljub Mijailovich, Illinois Institute of technology, Chicago

The effects of sarcomeric protein mutations leading to familial cardiomyopathy: integrated modeling of multiscale cardiac system.

Nenad Filipovic, University of Kragujevac, Serbia,

Computational modeling of stent deployment

CVs of the
organizers

Nenad D. Filipovic is full Professor at Faculty of Engineering and Head of Center for Bioengineering at University of Kragujevac, Serbia. He was Research Associate at Harvard School of Public Health in Boston, USA. His research interests are in the area of biomedical engineering, cardiovascular disease, fluid-structure interaction, biomechanics, multi-scale modeling, data mining, software engineering, parallel computing, computational chemistry and bioprocess modeling.

