# Workshop/Tutorial title:
Computational modelling in bioengineering and bioinformatics

| Organizers | Prof. Nenad Filipovic  
Faculty of Engineering  
University of Kragujevac, Serbia |
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<td>Short description</td>
<td>Computational modeling 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. This workshop lectures will present discovery of new knowledge that can improve the predictive power of the patient-model. It will support the medical expert to upgrade the accumulated knowledge into the existing model and generating an adaptive patient-specific computational tool.</td>
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| Contents | **Marc Garbey**, Professor of Computational Science in Surgery, Houston Methodist Hospital and Weill Cornell Medicine  
**Vascular Adaptation: Challenges and Opportunities**  
**Milos Kojic**, Houston Methodist Hospital, Texas, USA  
A multicompartment computational finite element model for drug distribution which directly couples concentrations in blood vessels and cell interior  
**Dan Krsmanovich**, CEO of CardioMed Technology Consultants Miami, FL, USA  
**Computational modeling for peripheral artery stent**  
**Paolo Decuzzi**, Professor of Biomedical Engineering at the Italian Institute of Technology: **Nanoconstructs for Precision Medicine: the in silico drives the in vivo**  
**Nenad Filipovic**, Professor at Faculty of Engineering, University of Kragujevac, Serbia  
**Computational modeling of atherosclerosis** |
| CVs of the organizers | **Prof. Nenad Filipovic** is Head of Center for Bioengineering at University of Kragujevac, Serbia. 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. |

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