SGABU project - Increasing scientific, technological and innovation capacity of Serbia as a Widening country in the domain of multiscale modelling and medical informatics in biomedical engineering

Workshop 2 – *Multiscale models*

September 30th, 2021 (online)

10:00-10:05	***Welcome note*** Prof. Nenad Filipovic, University of Kragujevac
10:05-10:35	***Multiscale modeling: micro-to-macro scale transitions and homogenization*** Prof. Christian Hellmich, TU Wien
10:35-11:05	***Molecular dynamics modeling with AMBER: force fields, simulations, and behavior DNA*** Dr. Johannes Kalliauer, TU Wien
11:05-11:35	***Modelling of Composites under Extreme Loading using Coupled FEM – SPH*** Prof. Nenad Djordjevic, Brunel University London
11.35-11.50	*Short break*
11.50-12.20	***Particle-based models for simulation of active tissue rheology*** Prof. Bart Smeets, KU Leuven
12.20-12.50	***Micro, meso and macro scales for multiscale modeling in atherosclerosis*** Prof. Themis Exarchos and Dr. Gianna Karanasiou, University of Ioannina
12.50-13.20	***Multiscale finite element models for drug delivery and electrical conduction within tissue based on the smeared physical fields*** Prof. Milos Kojic, Methodist Hospital Research Institute, Houston

Note: 25 minutes is planned for the lecture and 5 minutes for questions by students and other participants.

Link to the workshop: https://bbb.unic.kg.ac.rs/b/nen-pv9-wce-u8z

This project has received funding from the European Union's Horizon 2020 research and innovation programme under grant agreement No 952603. This document has been produced within the scope of the SGABU project (www.sgabu.eu).
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