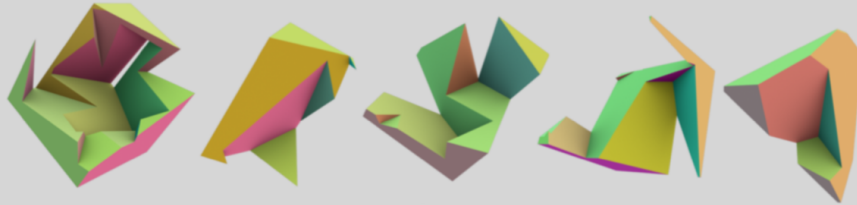


Department of Surgery
and
Biomedical center,
Faculty of Medicine in Pilsen,
Charles University
invites you to



November 5, 2019
15:00-17:30

room: SO 01.2.21
Biomedical Center
Faculty of Medicine Pilsen
Charles University
Alej Svobody 76
323 00 Pilsen

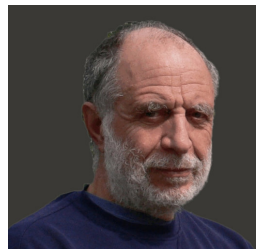
Professor Alberto Paoluzzi, Roma Tre University, Rome

Alberto Paoluzzi is currently a Professor of Computer Science in the Department of Mathematics and Physics of Roma Tre University. The persistent theme of Paoluzzi's research has been a quest for simplification and multidimensional generalization of geometrical methods and algorithms in solid modeling, as a basis for implementation of robust geometric languages and systems. Alberto's work culminated in LAR (Linear Algebraic Representation), a sparse-matrix store for chain complexes, that unifies the representation of meshes, solid and graphical models, and images. The more recent application is the reduction of CSG geometries into binary algebraic formulas. Alberto Paoluzzi authored 3 books, including "Geometric Programming for Computer-Aided Design" by Wiley, and more than 120 papers in peer-reviewed journals and conferences.



Professor Antonio DiCarlo, CECAM-IT-SIMUL Node simulation, Rome

Professor of Mechanics of Solids and Structures and Professor of Theoretical Condensed-Matter Physics at Università Roma Tre. Retired in 2016. Faculty member of the Doctoral Programme in Theoretical and Applied Mechanics at Sapienza - Università di Roma, of the Doctoral Programme in Sciences for Civil Engineering, and of the Doctoral Programme in Physics. Attached to the Interdisciplinary Centre "Beniamino Segre" of the Lincei Academy for a three-year period. Director of the Modelling & Simulation Lab at Università Roma Tre. Director of the CECAM-IT-SIMUL Node since 2016.



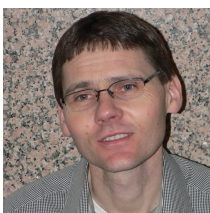
Main ongoing research lines: concurrent coupling of molecular dynamics and continuum mechanics; mechanics of microstructured media: soft matter, nematoacoustics, biological tissues; algebraic topology and differential geometry in continuum physics.

Ing. Miroslav Jiřík, Ph.D., Charles University, Pilsen



Miroslav Jirik graduated Ph.D. on the University of West Bohemia with dissertation theme: "Image analysis of the parenchymatous organs and their blood-vessel structure". Now he works in research center Biomedical Center of the Faculty of Medicine in Pilsen and NTIS – New Technologies for the Information Society. His main research interests include machine learning and computer vision especially medical imaging, texture analysis and image segmentation.

prof. Dr. Ing. Eduard Rohan, DSc., University of West Bohemia, Pilsen



Professor Eduard Rohan currently works at the Department of Mechanics, University of West Bohemia. He is head of MBS (Modelling of heterogeneous materials and biomechanical systems) group. His current research interests are: modelling of porous media, wave propagation and acoustics, tissue perfusion, self-contact in porous structures, shape optimization Methods and techniques: Continuum mechanics, unfolding method of homogenization, sensitivity analysis.