

GAMM2025

Wednesday 9 April 2025

S02: Biomechanics: S02.01 - Room 0.22 (16:30 - 18:30)

-Conveners: Tim Ricken

time	[id] title	presenter
16:30	[14] A multifactorial approach for modelling vascular tone regulation: from molecular pathways through tissue response to systemic couplings	MARINO, Michele
16:50	[15] Experimental and numerical characterisation of a viscoelastic material by unifying different time scales	RUHLAND, Laura
17:10	[16] Multimodal mechanical characterization of spinal cord tissue	RAMACHANDRAN, Rahul Gopalan
17:30	[17] PDE Framework for Tumor Invasion and Basement Membrane Dynamics: Application to Colorectal Cancer	SCHMID, Valentin
17:50	[18] A novel variational biofilm model for growth death and metabolism effects in coupled species evolution	KLEMPT, Felix
18:10	[19] Thickness field optimization of implants used in hernia treatment: comparison of materials with different mechanical properties	KALINOWSKI, Szymon

Thursday 10 April 2025

S02: Biomechanics: S02.02 - Room 0.22 (08:30 - 10:30)

-Conveners: Tim Ricken

time	[id] title	presenter
08:30	[20] Lower limb multibody model built in Artisynth for the use of coupled multibody-finite element simulations	DENK, Alexander
08:50	[21] Drift-Free Sagittal Angle Estimation in Outdoor Running Using IMUs: Application to Shank and Foot	GHIASSI, Mehdi
09:10	[22] Finite element analysis of the human elbow joint	KASPRZYK, Julia
09:30	[23] Finite Element Modelling of Impact Loads on the Human Head	WANG, Zechang
09:50	[24] A new concept for embedding fibers in continua via level-sets	FRIES, Thomas-Peter
10:10	[25] Characterization of the statistically inhomogeneous mesostructure of moso bamboo using image processing	SPEICHGINGER, Lukas