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COMPUTATIONAL BIOMEDICINE AND BIOMECHANICS

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MAXIM A. SOLOVCHUK*, TONY W.H. SHEU †

* , Institute of Biomedical Engineering and Nanomedicine,
National Health Research Institutes, TAIWAN
solovchuk@gmail.com

† Department of Engineering Science and Ocean Engineering,
National Taiwan University, TAIWAN
twhsheu@ntu.edu.tw

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ABSTRACT

Computational methods play a fundamental role in modern science and health research. This symposium is aimed to provide a platform to get computational experts to share recent simulation efforts in areas of biomedical and biofluid dynamics, treatment planning and computational surgery. The topics include, for example, anatomical modeling from medical imaging, multiphysics modeling of biological processes, applications of fluid-structure interactions for biomedical applications. Medical acoustics can also play its role in the simulation, including hyperthermia and focused ultrasound therapy. This symposium highly welcomes the topics of animal flow simulation, biological flow-elastic structure interaction hydrodynamics.