

Dear Colleague,

We are inviting you to participate in the Mini-Symposia **Biomechanics and Mathematical Biology** that is organised **within the 9th International Congress of the Serbian Society of Mechanics, July 5-7, 2023, Vrnjačka Banja, Serbia.**

The idea is to bring together the leading academic scientists, researchers and research scholars from multidisciplinary areas to exchange and share experiences and research results on various aspects of Theoretical and Applied Mechanics.

Mini-symposium will bring an interdisciplinary platform for researchers, to present and discuss the most recent innovations, theories, algorithms, as well as practical challenges in the area of Biomechanics, Bioengineering, Mathematical Biology and Applied Mathematics and Physics. This mini-symposium aims to bring together experts in characterization, modelling and simulation of biological systems, with special emphasis on their impact on solid and fluid mechanics research. Topics of interest are (but are not limited to):

- § Mechanical characterization of biological samples
- § Mathematical modelling of biological systems
- § Nonlinear Dynamics in Biological Systems
- § Stability and control in biological systems
- § Robotic systems inspired by biological systems
- § Biomimetic
- § Biophysics
- § Biomaterials,
- § Bioengineering
- § Biomechanics
- § Biorhythms
- § Electromechanics in biological systems
- § Chaos in biological systems
- § Growth and remodelling of biological matter
- § Synchronization in biological systems
- § Biomechanics of cardiovascular system
- § Biomechanics of locomotor system
- § Biomechanics of respiratory
- § Biomechanics of urinary and reproductive systems

The details regarding the conference can be found at

http://www.ssm.kg.ac.rs/congress_2023/

and

http://www.ssm.kg.ac.rs/congress_2023/topics/

The Plenary Speakers within **MS3: Biomechanics and Mathematical Biology** are:

1. **Prof. Dr. Su Fong-Chin** – Department of Biomedical Engineering, College of Engineering, National Cheng Kung University, Tainan, Taiwan; Medical Device Innovation Center, National Cheng Kung University, Tainan, Taiwan; Title: [An Exergame-Integrated IoT-Based Ergometer System for Personalized Training of the Elderly](#)
2. **Prof. Dr. Marco Amabili** – Department of Mechanical Engineering, McGill University,

Montreal, Canada; Title: [Effect of Smooth Muscle Activation in the Static and Dynamic Mechanical Characterization of Human Aortas](#)

Please find the template for **2 page abstract** in the attachment.

The conference will be in hybrid form: in presence and online participation.

The deadline to send two page abstracts is 15 April, 2023.

Please send the abstract at handjelka@gmail.com as well as at the

http://www.ssm.kg.ac.rs/congress_2023/authors/

by clicking on the LINK and by following the instructions.

If you need the official invitation letter, please contact us.

The conference is held in Vrnjačka Banja one of the oldest spas in Serbia, whose thermal springs have been known since Roman times. The spa is known for its summer festivals and is a gathering place for scientists and artists. Cultural and historical heritage, Belimarković Castle, hot water, rich history of Vrnjačka Banja and numerous nearby monasteries (Žiča, Studenica, Ljubostinja and Stubal) make the Banja very attractive.

We will be very pleased if you can join us at the Minisymposium **Biomechanics and Mathematical Biology** in Vrnjačka Banja this summer.

Sincerely yours,

The organisers,

Andjelka and Marat