

CEMBR 2020

The 3rd Workshop on
Recent Advances in Computational and Engineering
Methods in Biomedicine and Rehabilitation
(CEMBR)



SCOPE:

The increasing amount of innovations from the digital technologies and scientific breakthroughs permanently bring new developments and advances in both academic and industrial communities. The recent shifts in biomedical and healthcare research space result from the convergence research model leveraged by highly multidisciplinary approaches among which artificial and computational intelligence, robotics, additive manufacturing, and computer-assisted medical devices and procedures are the most prominent ones. Their obvious influences reshape the broad spectrum of biomedical procedures and practices, spanning from diagnosis to treatment to monitoring to rehabilitation.

The 3rd Workshop on Recent Advances in Computational and Engineering Methods in Biomedicine and Rehabilitation (<http://embeddedcomputing.me/en/meco-2020/special-workshops-sessions/cembr>) is a continuation of very successful previous events. It aims at cross sectioning of the latest approaches and achievements aiming at improvements in proactive health systems that enable higher quality of life and wellbeing. CEMBR 2020 will take place in Budva (Montenegro), amazing city on South Adriatic Riviera, in 5-stars [Hotel Budva](#), from June 8-11, 2020, as the associated event of the **9th Mediterranean Conference on Embedded Computing (MECO'2020)** (<http://embeddedcomputing.me/en/meco-2020>)

In order to contribute to scientific, medical and engineering community, as well as healthcare industry, we are inviting you to share your challenges and the current state of the art in the areas of your expertise, with supporting case studies of real-world relevance to underlying phenomena and biomedical and health care applications.

The main topics of this special session, but not limited to, are the following:

- Biomedical Image Processing and Analysis
- Biomedical Signal Processing and Analysis
- Biophysics and Medical Physics
- Neuroengineering
- Biomechanics, Rehabilitation and Prosthetics
- Digital Twins in Medicine and Healthcare
- Medical cyber-physical systems and Internet of Medical Things
- Minimum Invasive Surgery, Robotics, Image Guided Therapies, Endoscopy
- Diagnostic and Therapeutic and Bioinstrumentation
- Wearable and Implantable Systems
- Computational Biomedical Engineering
- Biomaterials
- Micro- and Nano-bioengineering and Biosensors
- Bio-MEMS
- Human modeling and simulation

- Personalized Medicine
- Clinical Engineering
- Therapeutic and Diagnostic Systems
- Healthcare Information Systems and Health Informatics
- Translational research and commercialization
- Cooperation of Academia, Industry and Healthcare Sector
- Health Technology Assessment

SUBMISSION GUIDELINES:

The review and submission conditions are the same as for MECO conferences. ([Submission](#), [Registration](#), [Deadlines](#), etc.), with the note “for WS (CEMBR)”. The regular papers will be submitted to be included in **IEEE Xplore**. Simultaneously send an email to Goran (devedzic@kg.ac.rs) to inform him about the submission number and title. Also, from Web page you can send him any question.

CHAIR:

Goran Devedzic (University of Kragujevac, Serbia)
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We kindly ask you to forward this invitation to your colleagues, especially young researchers.