



GRIGORE T. POPA UNIVERSITY OF
MEDICINE AND PHARMACY IASI



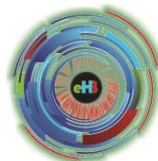
FACULTY OF
MEDICAL BIOENGINEERING



CALL FOR PAPERS EHB 2022 – IEEE INTERNATIONAL CONFERENCE ON

E-HEALTH AND BIOENGINEERING

10-th edition



e-HB

EHB 2022

Iași, Romania
NOVEMBER 17-18, 2022

Web conference

www.ehbconference.ro
ehb2022@ehbconference.ro

Organizers:

- *Grigore T. Popa University of Medicine and Pharmacy, Iași, Romania (UMF), Faculty of Medical Bioengineering (FBIM)*
- *The Romanian Society of Medical Bioengineering (SRBM), Iași*
- *Institute of Computer Science of Romanian Academy Iași Branch*
- *IEEE Romania Section*
- *IEEE-EMB Romania Chapter*
- *Technically sponsored by:*
 - *IEEE-EMC Romania Chapter*
 - *IEEE Signal Processing Romania Chapter*
 - *IEEE SMC Romania Chapter*

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Department of Pediatric Oncology and Hematology, Charite Berlin

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Institute of Computer Science of the Romanian Academy, Iași Branch

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Georgeta Zegan – UMF Iași, Faculty of Dental Medicine, Romania

Aim and goals

The main objective of EHB 2022 is to cover a broad spectrum of up-to-date topics of e-Health and Medical Bioengineering by giving the opportunity to scientists from diverse fields to participate in the presentation, discussion and evaluation of the latest advances, research challenges, and opportunities in hardware/software technologies, medical devices / instrumentation, biosignal and image processing, biomaterials, biomechanics, biotechnologies, and for some younger domains like bioinformatics, micro and nanotechnologies, systems biology or virtual physiological human. Active participation from research scientists, students, business professionals, and medical system leaders is also expected to generate productive ideas, links between industry and academia and partnerships for national and European programs.

Topics

- *Medical records, clinical, epidemiological and multimedia data bases;*
- *Medical imaging, image processing and analysis;*
- *Biosignal processing; Hospital information systems and healthcare networks;*
- *Telemedicine, e-health and telecommunications;*
- *Wearable systems and sensors, m-health and p-health systems;*
- *Internet in healthcare and medical web portals;*
- *Decision support systems and artificial intelligence in medicine;*
- *Bioinformatics; Computational biology;*
- *Biomechanics; Biomaterials;*
- *Micro and nanotechnology for medicine;*
- *Medical physics and biophysics;*
- *Biochemistry and Chemistry applied in medicine;*
- *Medical devices and equipment;*
- *Measurement and instrumentation in bioengineering;*
- *Health technology assessment;*
- *Rehabilitative and assistive technologies;*
- *Electromagnetic compatibility;*
- *Biotechnologies in medicine*
- *Instrumental analysis and Laboratory technologies;*
- *Molecular bioengineering;*
- *Systems biology, neurosciences;*
- *Bioengineering in dental and oral health;*
- *Multimedia applications for medical and healthcare education and e-learning;*
- *Modeling and simulation methodologies;*
- *Virtual physiological human;*
- *Management and marketing in healthcare;*
- *Ethical and legal aspects of e-health and telemedicine;*
- *Environmental protection and management;*
- *Impacts on health and safety;*
- *Biomedical sciences communication and career development.*

Workshops (predicted):

- *New Approaches in Respiratory Care;*
- *New advances in motor-recovery neurotechnology by means of Brain-Computer Interfaces, Functional Electrical Stimulation and Exoskeletons*
- *Mechanical, Aerospace and Biomedical Engineering;*
- *Assistive technologies for people with disabilities;*
- *Medicine and informatics.*

Organizing Committee

H. Costin, Anca Galaction, Liliana Vereștiuc, D. Zaharia, Gladiola Petroiu, C. Rotariu, C. Corciovă, R. Ciorap, Mihaela Moscalu, Mihaela Hnatiuc, Sînziana Anca Butnaru Moldoveanu, Mădălina Poștaru, Anca Lazăr, Ioana Adochiei, Diana Costin, Vera Bălan, Oana Hrisca-Eva, D. Boldureanu, D. Sardaru, F. Adochiei, R. Fuior, Bioengineers Students (ASB).

Papers submission and presentation

Full and original papers should be 4 pages in length, in IEEE conference style. *Important date:* your *full papers* are due on-line till **September 20-th** on EasyChair-EHB website. The reviewed, selected and presented papers at conference venue (or online) will be indexed in IEEE Xplore® data base and submitted to World of Science (Clarivate Analytics, former Conference Proceedings Citation Index, Thomson Reuters) and SCOPUS data bases.

Conference fees for online presentation

- **280 EUR (1400 RON) – Normal fee;**
- **220 EUR (1100 RON) – Student fee;**
- **250 EUR (1250 RON) -- IEEE membe fee;**

The second paper will be charged with 150 EUR (750 RON). These fees are available only for the first two papers.