



**CALL FOR PAPERS**  
**EHB 2019 – IEEE INTERNATIONAL CONFERENCE ON**  
**E-HEALTH AND**  
**BIOENGINEERING**  
**7-th edition**

***Iași, Romania***  
***November 21-23, 2019***

**Venues:**

***Grigore T. Popa University of Medicine and Pharmacy, Iași, Romania***  
**16 Universității Street, Iași, Romania**  
**Tel. / Fax: (+)40-232-213573**  
***Traian-Astoria Hotels, Iași, Romania***  
**Website: [www.ehbconference.ro](http://www.ehbconference.ro)**  
**e-mail: [ehb2019@ehbconference.ro](mailto:ehb2019@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***

**Honorary chair:**

**Acad. Prof. Horia-Nicolai Teodorescu**  
**Member of the Romanian Academy**

**General chair:**

**Prof. Hariton Costin**  
**Grigore T. Popa University of Medicine and Pharmacy, Iași, Romania**

## International Scientific Committee

**Horia-Nicolai Teodorescu** – member of the Romanian Academy and Gheorghe Asachi Technical University of Iasi, Romania, *Honorary chair*

**Hariton Costin** – UMF Iași, Faculty of Medical Bioengineering, Romania, *General chair*

**Viorel Scripcariu** – Rector of the UMF Iași, Faculty of Medicine, *Co-chair*

**Dan Zaharia** – UMF Iasi, President of the Romanian Society of Medical Bioengineering, Romania, *Co-chair*

**Anca Galaction** – UMF Iași, Dean of the Faculty of Medical Bioengineering, Romania, *Co-chair*

**Liliana Vereștiuc** – UMF Iași, Faculty of Medical Bioengineering, Romania, *Co-chair*

**Alexandru Morega** – Politehnica University, Bucharest, Romania, *Technical Program Chair*

**Metin Akay** – University of Houston, USA

**Adrian Barbu** – Florida State University, USA

**Jose Bravo** – Castilla-La Mancha University, Ciudad Real, Spain

**Ivaylo Christov** – Bulgarian Academy of Science, Sofia, Bulgaria

**Fabrizio Clemente** – National Research Council, Roma, Italy

**Svetlana Cojocar** – Academy of Sciences of Moldova, Kishinev,

**Maria Manuela Cruz-Cunha** – Polytechnic Institute of Cávado and Ave, Portugal

**Danilo De Rossi** – University of Pisa, Italy

**Valentin Drăgoi** – University of Texas, USA

**Carlo Frigo** – Politecnico di Milano, Italy

**Constantin Gaidric** – Academy of Sciences of Moldova, Kishinev

**Enrique J. Gomez** – Universidad Politecnica de Madrid, Spain

**Helmut Hutten** – University of Technology, Graz, Austria

**Ákos Jobbágy** – Budapest University of Technology and Economics, Hungary

**Izzet Kale** – University of Westminster, United Kingdom

**Raymond Lee** – London South Bank University, London, United Kingdom

**Ratko Magjarević** – University of Zagreb, Croatia

**Winfried Mayr** – Medical University of Vienna, Austria

**Konstantina Nikita** – National Technical University of Athens

**Nicolas Pallikarakis** – University of Patras, Greece

**Mihail Popescu** – University of Missouri, USA

**Octavian Postolache** – Institute of Telecommunications, Lisbon, Portugal

**Vladimir Rogalewicz** – Czech Technical University in Prague, Czech Republic

**Karel Roubik** – Czech Technical University in Prague, Czech Republic

**Martin Rožánek** – Czech Technical University in Prague, Czech Republic

**Abdel-Badeeh Salem** – Ain Shams University, Cairo, Egypt

**Francesco Sicurello** – Bicocca University of Milan, IITM / AITIM, Italy

**Maria Siebes** – University of Amsterdam, The Netherlands

**Adrian Stoica** – JPL-NASA, USA

**Ion Tiginyanu** – Academy of Sciences of Moldova

**Vicente Traver Salcedo** – Polytechnic University of Valencia, Spain

**Milan Štork** – University of West Bohemia, Plzen, Czech Republic

**Victor Șontea** – Technical University of Moldova, Kishinev

**Luminița Aura Vese** – University of California, Los Angeles (UCLA), USA

**Andreas Voss** – University of Applied Sciences Jena, Germany

**Gheorghe Zaharia** – Université Européenne de Bretagne, INSA-Rennes, France

**Ioana Dana Alexa** – UMF Iași, Faculty of Medicine, Romania

**Ioana Adochiei** – Military Technical Academy, Bucharest, Romania

**Felix Adochiei** – Politehnica University, Bucharest, Romania

**Gladiola Andruseac** – UMF Iași, Faculty of Medical Bioengineering, Romania

**Iulian Antoniac** – Politehnica University, Bucharest, Romania

**Dragoș Arotăriței** – UMF Iași, Faculty of Medical Bioengineering, Romania

**Tudor Barbu** – Institute of Computer Science of the Romanian Academy Iași Branch, Romania

**Mihaela Baritz** – Transilvania University of Brasov, Romania

**Silviu Bejinariu** – Institute of Computer Science of the Romanian Academy Iași Branch, Romania

**Lucian Boiculese** – UMF Iași, Faculty of Medicine, Romania

**Radu Gabriel Bozomitu** – Gheorghe Asachi Technical University of Iasi, Romania  
**Doina Bucur** – Politehnica University, Bucharest, Romania  
**Radu Ciorap** – UMF Iași, Faculty of Medical Bioengineering, Romania  
**Radu Ciupa** – Technical University of Cluj – Napoca, Romania  
**Corina Cheptea** – UMF Iași, Faculty of Medical Bioengineering, Romania  
**Călin Corciovă** – UMF Iași, Faculty of Medical Bioengineering, Romania  
**Daniela Danciu** – University of Craiova, Romania  
**Valeriu David** – Gheorghe Asachi Technical University of Iași, Romania  
**Geta David** – Gheorghe Asachi Technical University of Iasi, Romania  
**Gabriel Dimitriu** – UMF Iași, Faculty of Pharmacy, Romania  
**Radu Dobrescu** – Politehnica University, Bucharest, Romania  
**Norina Fornă** – UMF Iași, Faculty of Dental Medicine, Romania  
**Oana Geman** – Ștefan cel Mare University of Suceava, Romania  
**Lucian Gavrilă** – Vasile Alecsandri University of Bacău, Romania  
**Liviu Goraș** – Gheorghe Asachi Technical University of Iasi, Romania  
**Carmen Grigoraș** – UMF Iași, Faculty of Medical Bioengineering, Romania  
**Horia Iovu** – Politehnica University, Bucharest, Romania  
**Sorin Jinga** – Politehnica University, Bucharest, Romania  
**Anca Lazăr** – UMF Iași, Faculty of Medical Bioengineering, Romania  
**Diana Lungeanu** – University of Medicine and Pharmacy, Timișoara, Romania  
**Marcela Mihai** – Petru Poni Institute of Macromolecular Chemistry, Iasi, Romania  
**Constanța Mocanu** – Appolonia University, Iași, Romania  
**Mihaela Morega** – Politehnica University, Bucharest, Romania  
**Liana Moș** – Vasile Goldis Western University of Arad, Romania  
**Anca Munteanu** – UMF Iași, Faculty of Medicine, Romania  
**Florin Munteanu** – UMF Iași, Faculty of Medical Bioengineering, Romania  
**Sever Pașca** – Politehnica University, Bucharest, Romania  
**Paraschiva Postolache** – UMF Iași, Faculty of Medicine, Romania  
**Calin Popovici** – Romanian Space Agency, Romania  
**Gabriel-Ioan Prada** – Carol Davila University of Medicine and Pharmacy, Bucharest, Romania  
**Radu-Emil Precup** – Polytechnic University of Timisoara, Faculty of Automation and Computers  
**Sorin Pușcoci** – National Communications Research Institute, Bucharest, Romania  
**Gabriel-Lucian Radu** – Politehnica University, Bucharest, Romania  
**Dan Rafiroiu** – Technical University of Cluj – Napoca, Romania  
**Cristian Rotariu** – UMF Iași, Faculty of Medical Bioengineering, Romania  
**Florin Rotaru** – Institute of Computer Science of the Romanian Academy Iași Branch, Romania  
**Loredana Stanciu** – Technical University of Timișoara, Romania  
**Lacramioara Stoicu-Tivadar** – Technical University of Timișoara, Romania  
**Vasile Stoicu-Tivadar** – Technical University of Timișoara, Romania  
**Mircea-Florin Vaida** – Technical University of Cluj – Napoca, Romania  
**Constantin Vertan** – Politehnica University, Bucharest, Romania  
**Cristian Vizitiu** – Institute of Space Science, Romania  
**Georgeta Zegan** – UMF Iași, Faculty of Dental Medicine, Romania

### **Aim and goals**

The main objective of EHB 2019 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, of which Horizon 2020 is of special importance.

### **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*
- *Bioengineering in dental and oral health*
- *Multimedia applications for medical and healthcare education and e-learning*
- *Systems biology*
- *Modeling and simulation methodologies*
- *Virtual physiological human*
- *Neurosciences*
- *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:**

- *Modern methods of learning in dental medicine*
- *Assistive technologies for people with disabilities*
- *Medicine and informatics*

#### **Organizing Committee**

H. Costin, D. Zaharia, Gladiola Andrusac, Liliana Vereștiuc, Anca Galaction, C. Rotariu, R. Ciorap, Anca Lazăr, C. Corciovă, D. Boldureanu, F. Adochiei, Ioana Adochiei, Mariana Rotariu, D. Andrițoi, Diana Costin, Vera Bălan, Robert Fuior, Association of 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 *October 25-th* on EasyChair-EHB website. The reviewed, selected and presented papers at conference venue will be indexed in IEEE Xplore® and submitted to Clarivate Analytics (former Conference Proceedings Citation Index, Thomson Reuters, WoS) data bases.

**Conference fees: 300 EUR / 200 EUR (900 RON, for students)**, payable to “SOCIETATEA ROMANA DE BIOINGINERIE MEDICALA”, Iasi, str. M. Kogalniceanu 9-13, CIF: 19153366, IBAN account: **RO29BRDE240SV65426852400, BRD Iasi, "Taxa Conferinta - EHB 2019"** (1400 RON) or **RO64BRDE240SV28920202400, BRD Iasi, "Conference fee – EHB 2019"** (in EUR), no later than 25 October 2019. BRD Bank has SWIFT code: BRDEROBU