

# PROGRAMME

## **15<sup>30</sup> – 18<sup>00</sup> Dedicated session: Medical devices, Measurements, Instrumentation, Medical Physics (I) (Room B - 'Anatomy' Hall)**

**Chairs:** **Radu Ciupa** – Technical University of Cluj – Napoca, Romania  
**Alexandru Morega** – POLITEHNICA University of Bucharest, Romania  
**Radu Ciorap** – Grigore T. Popa University of Medicine and Pharmacy, Iasi, Faculty of Medical Bioengineering, Iasi, Romania

- 1. Evaluation of Emotional Influence on EEG Activity in the Frontal Lobes,** *Bogdan-Andrei Tabacaru – Id:17*
- 2. Important Role of Radiation Protection in Specific Applications of X-Ray and Radionuclides in Bioengineering,** *Jozef Sabol, Rebeka Ralbovská, Jana Hudzietzová – Id:27*
- 3. The Accuracy of Manual and Digital Measurements on Conventional Lateral Cephalograms,** *Georgeta Zegan, Cristina Gena Dascalu – Id:38*
- 4. Improved Method to Perform FES&BCI Based Rehabilitation,** *Danut Irimia, Marian Silviu Poboroniuc, Rupert Ortner – Id:58*
- 5. Monitoring of Pulmonary Embolism using Electrical Impedance Tomography: a Case Study,** *Vladimir Sobota, Jan Suchomel - Id:93*
- 6. EHR-Centric Integration of Health Information Systems,** *Luca Dan Șerbănași, Fabrizio L. Ricci – Id:97*
- 7. Inspiratory and Expiratory Flow Rates Determination,** *Bogdan Marius Ciurea, Sorin Kostrakievici, Mircea Iulian Nistor - Id:109*
- 8. Eye Tracking Mouse for Human Computer Interaction,** *Robert Gabriel Lupu, Florina Ungureanu, Valentin Siriteanu - Id:112*
- 9. Use of Electrical Impedance Tomography for Quantitative Evaluation of Disability Level of Bronchopulmonary Dysplasia,** *Kristyna Buzkova, Jan Suchomel - Id:187*

## POSTERS

- 10. Noninvasive Assessment of Breast Pathologies During Pregnancy,** *Silvana Ojica, Anca Ifemie - PId:120*
- 11. Fall Detection Algorithm Based on Triaxial Accelerometer Data,** *Mihail Dumitrache, Sever Pasca - PId:143*
- 12. Noninvasive Cuffless Estimation of Blood Pressure using Photoplethysmography without Electrocardiograph Measurement,** *Rohan Samria, Ridhi Jain, Ankita Jha, Sandeep Saini, Shubhajit Chowdhury - PId:151*

- 13. Considerations about the Influence of Colloidal Solutions on Human Energy Informational Field. Part I: Testing Basic Method,** *Ioan Curta, Ileana Constanta Rosca, Zoltan Marosy, Alexandru Catalin Micu, Ionel Mohirta - PId:152*
- 14. Considerations about the Influence of Colloidal Solutions on Human Energy Informational Field. Part II: Testing with GDV Compact Camera,** *Ioan Curta, Ileana Constanta Rosca, Zoltan Marosy, Alexandru Catalin Micu, Ionel Mohirta - PId:153*
- 15. Concentric Bipolar Active Electrode for Noninvasive Biopotential Measurement in Autonomic Nervous System,** *Shogo Hasegawa, Yuto Aoki, Yutaka Fukuoka, Gert Cauwenberghs, Shigeo Wada, Yuuki Shimizu, Naoki Nishimura, Satoshi Iwase, Akinori Ueno - PId:159*
- 16. Handheld Surgical Drill With Integrated Thrust Force Recognition,** *Markus Hessinger, Jürgen Hielscher, Peter Pott, Roland Werthschützky - PId:182*
- 17. The Importance of Measuring Electrical Impedance in the Analysis of Human Physiological Parameters,** *Calin Corciova, Doru-Ionut Andritoi, Catalina Luca, Radu Ciorap - PId:228*