

EHB 2017 Conference Detailed Program

Conference opening

Invited plenary lectures (I)

Thursday, 22nd of June, 9:00 – 11:00

Thursday, 22nd of June

Workshop: New advances in motor-recovery neurotechnology by means of BCI, FES and Exoskeletons (MRN)

Thursday, 22nd of June, 11:30 – 13:30

Chairpersons: *Marian Poboroniuc, Dănuț Irimia*

1.	FES&BCI Based Rehabilitation Engineered Equipment: Clinical Tests and Perspectives, <i>Paper ID: 26</i> <i>Marian-Silviu Poboroniuc and Danut Constantin Irimia</i>
2.	Virtual Rehabilitation Programme Using the MIRA Platform, Kinect and Leap Motion Sensors in an 81 Years Old Patient with Ischemic Stroke, <i>Paper ID: 95</i> <i>Ionut Moldovan, Larisa Tric, Raluca Usca, Alin Podar, Alina Calin, Andrei Cantea, Andrei Dascalu, and Cosmin Mihaiu</i>

Medical devices, Instrumentation, Medical Signal Processing (I) (MD-SP1)

Thursday, 22nd of June, 11:30 – 13:30

Constantin Brâncuși Room (B) – Palace Hotel

Chairpersons: Alexandru Morega, Enrico Caiani

1.	Effect of Feeding on Neurovegetative Response to Olfactory Stimuli , Paper ID: 5 <i>Alessandro Tonacci, Francesco Sansone, Anna Paola Pala, Antonia Centrone, Francesco Napoli, Claudio Domenici and Raffaele Conte</i>
2.	Biomedical Signal Acquisition for Respiration Monitoring by Flexible Analog Wearable Sensors , Paper ID: 27 <i>Raluca Maria Aileni, Sever Pasca, Rodica Strungaru and Carlos Valderrama</i>
3.	Fuzzy Hata-Okumura Models for Dosimetry Computations , Paper ID: 36 <i>Horia-Nicolai L. Teodorescu</i>
4.	Ultra-Short-Term Heart Rate Variability Analysis on Accelerometric Signals from Mobile Phone , Paper ID: 70 <i>Federica Landreani, Mattia Morri, Alba Martin-Yebra, Claudia Casellato, Esteban Pavan, Carlo Frigo, and Enrico Caiani</i>
5.	Neurobiological and Neurocognitive Models of Vision for Touch Input on Mobile Devices , Paper ID: 102 <i>Maria Doina Schipor and Radu-Daniel Vatavu</i>
6.	New Methods of Financing Medical Technology in the Czech Republic , Paper ID: 107 <i>Michaela Steklá and Ivana Kubátová</i>
7.	Multi-Objective Optimization of Feature Selection Procedure for EEG Signals Classification , Paper ID: 126 <i>Corina Cîmpanu, Lavinia Ferariu, Tiberius Dumitriu and Florina Ungureanu</i>

Hospital information systems, Medical records, Healthcare networks (HIS)

Thursday, 22nd of June, 11:30 – 13:30

Mircea Eliade Room (C) – Palace Hotel

Chairpersons: Mihail Popescu, Anca Ignat

1.	Advanced Solutions for Medical Information Storing: Clinical Data Warehouse, Paper ID: 12 <i>Cristina Elena Poenaru, Daniel Merezeanu, Radu Dobrescu and Eugenie Posdarascu</i>
2.	Tailoring Information and Communication Technologies to Support Physiotherapy for Rural Elderly, Paper ID: 30 <i>Gabriela Postolache, Raul Oliveira, Pedro Silva Girão, José Miguel Pereira and Octavian Postolache</i>
3.	A Methodology to Identify Health and Social Care Web Services on the Basis of Case Stories, Paper ID: 63 <i>Fabrizio Pecoraro, Daniela Luzi, Elaheh Pourabbas and Fabrizio L Ricci</i>
4.	Profiling In Obstetrics For Premature Birth Risk Patients, Paper ID: 85 <i>Oana Sorina Lupse and Lacramioara Stoicu-Tivadar</i>
5.	ICT Supporting Treatment for High Risk Situations in Obstetrics, Paper ID: 89 <i>Mihaela Crisan-Vida, Alina Mihaltan, Lăcrămioara Stoicu-Tivadar, Andreea Moza and Elena Bernad</i>
6.	Development Of A Platform For E-Training/E-Learning For Echocardiography Practitioners, Paper ID: 108 <i>Raffaele Conte, Francesco Sansone, Andrea Grande, Alessandro Tonacci, Francesco Napoli, Anna Paola Pala, Patrizia Landi and Mauro Raciti</i>
7.	Cyber Security in Healthcare Networks, Paper ID: 120 <i>Delia Ioana Dogaru and Ioan Dumitrache</i>
8.	Interaction Schemes for the Analysis of Combined Action of Risk Factors, Paper ID: 133 <i>Cristina Gena Dascalu, Magda Ecaterina Antohe, Loredana Golovcencu and Georgeta Zegan</i>
9.	Mobile@Old – An Assistive Platform for Maintaining a Healthy Lifestyle for Elderly People, Paper ID: 169 <i>Imad Alex Awada, Irina Mocanu, Sergiu Jecan, Lucia Rusu, Adina Magda Florea, Oana Cramariuc and Bogdan Cramariuc</i>

Decision support systems, Artificial Intelligence, Bioinformatics (DSS-AI)

Thursday, 22nd of June, 11:30 – 13:30

Nicolae Iorga Room (D) – Palace Hotel

Chairpersons: Victor-Emil Neagoe, Gabriel Dimitriu

1.	Ontologies Applied in Medicine: A Digital Library Creation Framework for Health Literacy , Paper ID: 41 <i>Ramona Cristina Popa, Andrei Vasilateanu, Nicolae Goga, Andrei Doncescu, Paolo Darminio, Raluca-Maria Barbur and Catalin Ilie</i>
2.	Splice Site Pattern Analysis and Identification of Similar Sequences in the Deep Intron Areas of Human Chromosome 21 , Paper ID: 43 <i>Cristian G. Zimbru, Nicoleta Andreescu, Adela Chirita-Emandi, Antonius Stanciu, Ioan Silea, Mihai D. Niculescu and Maria Puiu</i>
3.	Drunkenness Diagnosis Using a Neural Network-Based Approach for Analysis of Facial Images in the Thermal Infrared Spectrum , Paper ID: 48 <i>Victor-Emil Neagoe and Serban-Vasile Carata</i>
4.	A Colon Cancer Microarray Analysis Technique , Paper ID: 78 <i>Irina Oana Petre and Catalin Buiu</i>
5.	Hybrid Agent Based Algorithm for an Efficient RFID-based Health Information System , Paper ID: 81 <i>Felicia Giza-Belciug and Cristina Elena Turcu</i>
6.	Rb Protein Dynamic Modeling , Paper ID: 160 <i>Irina Oana Petre</i>
7.	Assessing Machine Learning Algorithms for Self-Management of Asthma , Paper ID: 163 <i>Otilia Kocsis, Gerasimos Arvanitis, Aris Lalos, Konstantinos Moustakas, Jacob K. Sont, Persijn J. Honkoop, Kian Fan Chung, Matteo Bonini, Omar S. Usmani, Stephen Fowler and Andrew Simpson</i>
8.	A Local Sensitivity Study for an Activated T-cell Model , Paper ID: 202 <i>Gabriel Dimitriu, Mihaela Moscal and Vasile Lucian Boiculese</i>

Biomechanics (I) - BMEC1

Thursday, 22nd of June, 11:30 – 13:30

King Ferdinand Room (E) – Caraiman Hotel

Chairpersons: Mihaela Baritz, Diana Cotoros

1.	Effect of Shoulder-Elbow Position upon the Force Applied by Hand, Paper ID: 7 <i>Diana Cotoros and Anca Stanciu</i>
2.	Statistical Analysis of Forces Developed by Fingers, Paper ID: 8 <i>Diana Cotoros, Cornel Druga and Anca Stanciu</i>
3.	A Stretchable, Conductive Rubber Sensor to Detect Muscle Contraction for Prosthetic Hand Control, Paper ID: 51 <i>Paolo Bifulco, Daniele Esposito, Gaetano Gargiulo, Sergio Savino, Vincenzo Niola, Luigi Iuppariello and Mario Cesarelli</i>
4.	Design and Construction of an Experimental Stand for Total Hip and Knee Prosthetics Testing, Paper ID: 115 <i>Corneliu Druga, Ileana Rosca, Angela Repanovici and Radu Necula</i>
5.	Determination of Deviation from Sphericity to Total Hip Prosthesis, Paper ID: 116 <i>Corneliu Druga, Ileana Rosca, Ionel Serban and Radu Necula</i>
6.	Regularity Assessment of Cyclic Human Movements: an Innovative Method based on Wearable Sensors, Paper ID: 131 <i>Giovanni Marco Scalera, Marco Rabuffetti, Alberto Marzegan, Carlo Frigo and Maurizio Ferrarin</i>

Invited plenary lectures (II)

Thursday, 22nd of June, 15:00 – 17:00

Friday, 23rd of June

Poster Sessions

Friday, 23rd of June, 8:00 – 9.00

Lobby of Palace Hotel

Chairpersons: *Liliana Vereștiuc, Călin Corciovă*

Topic - Workshop: New advances in motor-recovery neurotechnology by means of BCI, FES and Exoskeletons (MRN)

1.	The TRAVEE System for Neuromotor Recovery: Architecture and Implementation, Paper ID: 164 <i>Oana Ferche, Alin Moldoveanu and Florica Moldoveanu</i>
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Topic - Medical devices, Instrumentation, Medical Signal Processing (MD-SP)

1.	Simulations of the Effect of the Cooling Elements' Temperature on the Hypothermia Efficiency, Paper ID: 6 <i>Cojocaru Victor and Vrabii Daniel</i>
2.	Study into Microwave Ablation Antenna Optimization, Paper ID: 13 <i>Vlad Neagu</i>
3.	Smartphone Application for Heart Rate Monitoring, Paper ID: 42 <i>Raluca Maria Marinescu and Anisor Nedelcu</i>
4.	Computerised Simulation of Fetal Heart Rate Variability Signals, Paper ID: 54 <i>Maria Romano, Luigi Iuppariello, D'Addio Giovanni, Fabrizio Clemente, Francesco Amato and Mario Cesarelli</i>
5.	Inductive Proximity Sensors Network in Intelligent Clothes, Paper ID: 65 <i>Marius Hagan</i>
6.	Electronic Hand Grip Dynamometer, Paper ID: 74 <i>Petr Kudrna, Leoš Tejkl and Martin Rozanek</i>
7.	Stress Influence on Drivers Identified by Monitoring Galvanic Skin Resistance and Heart Rate Variability, Paper ID: 77 <i>Roxana Cernat, Andreea Speriatu, Dragos Taralunga, Bogdan Hurezeanu, Irina Nicolae, Rodica Strungaru, and Mihaela Ungureanu</i>

8.	Selection of a PET/CT Scanner for a Department of Nuclear Medicine, Paper ID: 96 <i>Eliška Királyová, Michaela Steklá and Gleb Donin</i>
9.	A Rapid Prototyping Model Concept for a DSP based Hearing Aid, Paper ID: 98 <i>Radu Arsinte, Eugen Lupu and Teodor Sumalan</i>
10.	Prototype of a Wearable System for Personal Health Control, Paper ID: 100 <i>Eugen Lupu, Radu Arsinte and Teodor Sumalan</i>
11.	Coping Strategies of People with Low Vision for Touch Input: A Lead-in Study, Paper ID: 103 <i>Maria Doina Schipor and Radu-Daniel Vatavu</i>
12.	Electric Supply Availability for the Surgical Luminaires, Paper ID: 124 <i>Cornel Hajdau and Maria Bistricianu</i>
13.	Remote Photoplethysmography Measurement using Constrained ICA, Paper ID: 125 <i>Richard Macwan, Yannick Benezeth, Alamin Mansouri, Keisuke Nakamura and Randy Gomez</i>
14.	Comparative Systems Analysis for Skin Response Signal Processing, Paper ID: 152 <i>Mihai Cenusă, Mihaela Poienar and Sergiu Dan Pata</i>
15.	Can WO₃ And SnO₂ Be Used As Acetone Gas Sensors In Exhaled Human Breath For Noninvasive Blood Glucose Monitoring?, Paper ID: 156 <i>Sara Boumali, Mohamed Taoufik Benhabiles, Khalifa Aguir and Fouad Kerrou</i>
16.	Electromagnetic Hot-spots Exposure in a Healthcare Environment Caused by Smart Metering in the Media Control, Paper ID: 172 <i>Silvia de Miguel-Bilbao, Jolanta Karpowicz, Victor Febles, José A. Hernández, Victoria Ramos, Wiesław Leszko, Krzysztof Gryz and Samuel Suárez</i>
17.	Variability of Vital Signs in Simulations with Mannequin in Education of Bioengineers, Paper ID: 176 <i>Martin Rožánek, Petr Kudrna and Květa Válková</i>
18.	SAR Computation for Multiple Close Stations under Modified Hata-Okumura Models, Paper ID: 180 <i>Loubna El Amrani, Tomader Mazri and Nabil Hmina</i>
19.	Recognition of Positive and Negative Emotions for Romanian Language, Paper ID: 207, <i>Silvia Monica Feraru and Marius Dan Zbancioc</i>

Topic - Decision support systems, Artificial Intelligence, Bioinformatics (DSS-AI)

1.	A Connectionist Model for Cerebrovascular Accident Risk Prediction, Paper ID: 15 <i>Irina Tanasoiu and Adriana Albu</i>
2.	Analysis of Decision Tree Performance in Predicting the Relationship between a Scored Outcome and Multiple Single Nucleotide Polymorphisms, Paper ID: 18 <i>Cristian G. Zimbru, Nicoleta Andreescu, Adela Chirita-Emandi, Ioan Silea, Maria Puiu and Mihai D. Niculescu</i>
3.	From Logical Inference to Decision Trees in Medical Diagnosis, Paper ID: 21 <i>Adriana Albu</i>
4.	Iris Recognition using Statistics on Pixel Position, Paper ID: 123 <i>Ioan Pavaloi and Anca Ignat</i>
5.	Application of Neuro-Fuzzy Inference System for Diabetes Classification and Prediction, Paper ID: 185 <i>Oana Geman, Iuliana Chiuchisan and Roxana Toderean (Aldea)</i>
6.	Application of Support Vector Machine for Classification of Sensorimotor Rhythms in Brain Computer Interface, Paper ID: 191 <i>Roxana Toderea and Iuliana Chiuchisan</i>

Topic - Hospital information systems, Medical records, Healthcare networks (HIS)

1.	A Look Into Emergency Department Overcrowding: Ideas and Overview, Paper ID: 35 <i>Ioan Dragan, Serban Matesoane, Alina Petrica and Diana Lungeanu</i>
2.	Automated Identification of Health Apps' Medical Specialties and Promoters from the Store Webpages, Paper ID: 57 <i>Alessia Paglialonga, Marco Riboldi, Gabriella Tognola and Enrico Gianluca Caiani</i>
3.	Development Of An Integrated ICT System For Data Production, Standardization And Elaboration In Health & Care, Paper ID: 94 <i>Raffaele Conte, Francesco Sansone, Andrea Grande, Alessandro Tonacci, Francesco Napoli, Anna Paola Pala, Mauro Raciti and Patrizia Landi</i>
4.	Proposed Methods to Identification of Professional and Environmental Stressors for the Seafaring Staff, Paper ID: 97 <i>Mihaela Hnatiuc</i>

5.	Holistic Perspective of Big Data in Healthcare, Paper ID: 121 <i>Delia Ioana Dogaru and Ioan Dumitrache</i>
6.	Diagnosis and Directions for Research and Innovation in Romania, Paper ID: 201 <i>Daniel Boldureanu, Mihaela Mocanu, Gabriela Boldureanu, Carmen Costuleanu and Gladiola Andruseac</i>
7.	A Security Approach for Healthcare Information Systems, Paper ID: 206 <i>Iuliana Chiuchisan, Doru-Gabriel Balan, Oana Geman, Iulian Chiuchisan and Ionel Gordin</i>
8.	Economic Impact and the Dynamics of the Innovative Process in Romania Compared to the European Union, Paper ID: 208 <i>Daniel Boldureanu, Adriana Prodan, Ruxandra Ciulu, Gabriela Boldureanu and Gladiola Andruseac</i>

Topic – Biomechanics (BMEC)

1.	Assessment of Cervical Disk Prosthesis by Means of Video-fluoroscopy Image Processing, Paper ID: 50 <i>Paolo Bifulco, Luigi Iuppariello, Maria Romano, Antonio Fratini, Daniele Esposito, Fabrizio Clemente and Mario Cesarelli</i>
2.	BradykAn: A Motion Capture System for Objectification of Hand Motor Tests in Parkinson Disease, Paper ID: 129 <i>Radim Krupicka, Slavka Viteckova, Vaclav Cejka, Ondrej Klempir, Zoltan Szabo and Evzen Ruzicka</i>
3.	A Total Knee Prosthesis CAD Design, Paper ID: 146 <i>Daniela Mariana Barbu</i>
4.	Scoliosis Risk Assessment in Children with Pelvic Asymmetry - A Simple Screening Test based on Gluteal Area Asymmetry, Paper ID: 217 <i>Bogdan Anton Prisacariu, Bogdan Dimitriu and Elena Lungu</i>

Topic - Medical imaging and Image processing - MIIP

1.	Emotional States Recognition by Interpreting Facial Features, Paper ID: 80 <i>Loredana Stanciu and Florentina Blidariu</i>
2.	Steps Towards Computer-Assisted Classification of Colonoscopy Video Frames, Paper ID: 153 <i>Adrian Ciobanu, Mihaela Luca, Vasile Drug and Violeta Tulceanu</i>

Topic – Biomaterials and Biotechnologies (BB)

1.	Antioxidant Capacity of Some New N-(2-bromo-phenyl)-2-hydroxy-benzamide Derivatives, Paper ID: 37 <i>Ioana Maria Carmen Ienascu, Adina Cata and Mariana Stefanut</i>
2.	Microwave Irradiation in Preparation of Dental Biomaterials, Paper ID: 38 <i>Mariana Stefanut, Adina Cata and Ioana Maria Carmen Ienascu</i>
3.	Life Cycle Assessment of Paper Manufacturing: Environmental and Human Health Impacts, Paper ID: 92 <i>Isabela Maria Simion, Elena-Diana Comăniță, Raluca Maria Hlihor, Petronela Cozma, Simona Cecilia Ghiga, Mihaela Roșca and Maria Gavrilescu</i>
4.	Removal of Some Endocrine Disruptors via Adsorption on Activated Carbon, Paper ID: 119 <i>Sabra Hemidouche, Azziz Assoumani, Lidia Favier, Andrei Ionut Simion, Cristina Gabriela Grigoras, Dominique Wolbert and Lucian Gavrilă</i>
5.	Synthesis and Toxicological Activity of 5-Nitroindazole Sulfonamides Derivatives as Potential Antimicrobial Agents. Optimization of the Synthesis, Paper ID: 130 <i>Corina Cheptea, Andreea-Celia Benchea, Marius Gaina, Cătălina Iulia Săveanu, Madalina Postaru, Dana Ortansa Dorohoi, Valeriu Sunel and Marin Zagnat</i>
6.	Assessing Potential Dietary Toxicity of Heavy Metals in Lingonberry from Mănăila Open-pit Area (Suceava, Romania), Paper ID: 158 <i>Ramona Huzum, Doina Smaranda Sirbu-Radasanu, Simona Petronela Iftode and Andrei Vasile Nastuta</i>
7.	Quantum Mechanical and Spectral Study of Fluorescein, Paper ID: 179 <i>Ana Cezarina Morosanu, Antonina Gritco - Todirascu, Dan Gheorghe Dimitriu, Dana Ortansa Dorohoi and Corina Cheptea</i>
8.	The Efficiency of Anthocyanins Extract for Use in Preventing Dental Caries in Experimental Animals, Paper ID: 183 <i>Marin Zagnat, Aurelia Spinei and Gheorghe Bordeniuc</i>
9.	The Decontamination of Aqueous Solutions with Toxic Content Deriving from Oral Biomucoadhesive Tablets for Protecting the Quality of Waters, Paper ID: 192 <i>Magdalena Bîrsan, Ileana-Cornelia Cojocar, Vlad-Ioan Teodor, Mihaela-Monica Scutariu, Paula Anotoaoaea and Nicoleta Todoran</i>

Topic - Workshop: Bioengineering application for space and security (BSS)

1.	Potential Astronauts' Speech and Language Disorders. Case Study: Astronaut's Interviews Analysis Before and After Space Mission, Paper ID: 114 <i>Cristian Vizitiu, Adrian Dinculescu, Ruxandra Vizitiu, Vlad Marian Valeanu and Alexandru Nistorescu</i>
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Topic - Workshop: Medicine and Informatics (MI)

1.	Social Media and Health-Related Information: Surveys Development and Validation, Paper ID: 19 <i>Ariana-Anamaria Cordoș, Cristina Drugan and Sorana D. Bolboacă</i>
2.	Can the Mathematical Models Predict the Evolution of the Osteosynthesis Procedures when Submitted to Early Loadings?, Paper ID: 45 <i>Sorin Ungurianu, Doina-Clementina Cojocar, Florentin Dimofte and Robert Daniel Negru</i>
3.	Web Based Application for Improving the Education Quality of Young Medical Genetics Healthcare Professionals, Paper ID: 47 <i>Ciprian Perva, Iulia-Teodora Perva, Dumitru Daniel Rusu, Nicoleta Andreescu and Maria Puiu</i>
4.	Is the Singh Index Useful for Evaluating Osteoporosis?, Paper ID: 59 <i>Ovidiu Alexa, Bogdan Puha, Ioana Dana Alexa, Teodor Stefan Gheorghievici, Alexandru Filip and Bogdan Veliceasa</i>
5.	Effectiveness of Modified Miniinvasive Otomicrosurgery in Recurrent and Persistent Otitis Media in Children, Paper ID: 111 <i>Svetlana Diacova</i>
6.	The Multimedia Informed Consent: a Usefull Tool in ERCP, Paper ID: 134 <i>Gheorghe G. Balan, Gabriela Stefanescu, Catalin Victor Sfarti and Anca Trifan</i>
7.	Application of Biomedical Technologies – Issues in Modern Bioethics, Paper ID: 137 <i>Elena Toader, Oana Eva, Andrei Olteanu and Sorin Anton</i>
8.	Technical and Clinical Biases of Transient Elastography in Liver Diseases, Paper ID: 138 <i>Vasile Andrei Olteanu, Dana Elena Mitrică, Gheorghe Bălan and Gabriela Ștefănescu</i>
9.	The Potential of Implementing Language MOOCs in Medical Universities (Case Study: ZOE Project), Paper ID: 142 <i>Anca Cristina Colibaba, Stefan Colibaba, Irina Gheorghiu, Ovidiu Ursa, Cintia Colibaba</i>

10.	Utility of Polarized Dermoscopy in the Diagnosis of Cutaneous Lupus Erythematosus and Morphea, Paper ID: 167 <i>Mihaela Paula Toader, Irina Mihaela Esanu, Taranu Tatiana and Stefan Vasile Toader</i>
11.	Utility and Significance of Biomarkers used in Health Status Monitoring of Ionizing Radiation Exposed Personnel, Paper ID: 193 <i>Irina Anca Popescu, Felicia Gradinariu, Andreea Teodor, Doina Havarneanu, Irina Alexandrescu and Diana Costin</i>
12.	Modern Instruments for Establishing the Connection between the Personalized Intake of Dietary Supplements and Chronobiology, Paper ID: 194 <i>Anamaria Vasiliu and Oana Geman</i>
13.	Prevention of Cardiovascular Risk Factors in Childhood Obesity, Paper ID: 205 <i>Laura Mihaela Trandafir, Otilia E. Frasinariu, Calin Corciova, Lucian Vasile Boiculesse and Mihaela Moscalu</i>
14.	Electron Paramagnetic Resonance Investigations of Ultraviolet Irradiated Prednisone, Paper ID: 210 <i>Damian Grigore, Teodor Andreea, Popescu Irina Anca and Creanga Dorina Emilia</i>
15.	Recurrent Respiratory Tract Infections in Children, Paper ID: 211 <i>Laura-Mihaela Trandafir, Lucian Vasile Boiculesse, Gabriel Dimitriu and Mihaela Moscalu</i>
16.	A Two- Year Retrospective Study on Antibiotic Regimens Used in Children with Acute Perforated Appendicitis, Paper ID: 212 <i>Roxana Filip, Dorin Stanescu, Dorina Oprea and Florin Filip</i>

Topic - Workshop: Implications of Nanofibres and Nanocomposites in Nowadays Dental Medicine (NNDM)

1.	Tooth Field Stress Calculation by Finite Element Method During Traditional and Ultrasonic Teeth Root Canal Treatment, Paper ID: 84 <i>Nitoi Dan, Milicescu Stefan, Iacobescu Gabriel, Dimitrescu Andrei and Apostolescu Zoia</i>
2.	Dentures and Criteria of Selection for Their Main Connector – A Clinical Study, Paper ID: 148 <i>Maria-Antonela Beldiman, Raluca Elena Baciu, Dan-Nicolae Bosînceanu and Dana-Gabriela Bosînceanu</i>
3.	Glass Fiber-Reinforced Dental Bridges – Clinical and Mechanical Properties, Paper ID: 151 <i>Maria-Antonela Beldiman, Elena Luca, Nicoleta Ioanid, Dana-Gabriela Bosînceanu and Dan-Nicolae Bosînceanu</i>

Topic - Telemedicine, e/m/p-Health, Wearable systems

1.	Smart Guiding System for Medical Care Buildings, Paper ID: 10 <i>Hanoosh Amel, Nicolae Goga, Andrei Vasileteanu and Laurentiu Guta</i>
2.	Monitoring and Detecting Outliers for Elder's Life Activities in a Smart Home: A Case Study, Paper ID: 132 <i>Sawsan M. Mahmoud, Hesham A. Alabbasi and Tawfiq E. Abdulabbas</i>
3.	Multiple MapReduce Functions for Health Care Monitoring in a Smart Environment, Paper ID: 145 <i>Sawsan M. Mahmoud and Tawfic Enad Abdulabbas</i>
4.	Heart rate monitoring by using non-invasive wearable sensor, Paper ID: 168 <i>Raluca Maria Aileni, Sever Pasca and Rodica Strungaru</i>
5.	Activities of Daily Living and Falls Recognition and Classification from the Wearable Sensors Data, Paper ID: 181 <i>Todor Ivascu, Kristijan Cincar, Adriana Dinis and Viorel Negru</i>
6.	Cardiac Monitoring of Frail Oncological Outpatient using Wearable Devices, Paper ID: 200 <i>Mario Magliulo and Adriano Tramontano</i>

Topic - Workshop: Assistive Technologies for People with Disabilities (AT)

1.	Usability Assessment of Assistive Technology for Blind and Visually Impaired, Paper ID: 149 <i>Maria Dascalu, Alin Moldoveanu, Oana Balan, Robert Gabriel Lupu, Florina Ungureanu and Simona Caraiman</i>
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Invited plenary lectures (III)

Friday, 23rd of June, 9:00 – 11:00

Medical devices, Instrumentation, Medical Signal Processing (II)-MD-SP2

Friday, 23rd of June, 11:30 – 13:30

George Enescu Room (A) – Palace Hotel

Chairperson: Fabrizio Clemente

1.	Signal Processing for a Wearable Device for Activity Monitoring, Paper ID: 3 <i>Horia Nicolai Teodorescu and Marius Hagan</i>
2.	Topological Modeling of Brain Functioning, Paper ID: 136 <i>Sergo Dadunashvili</i>
3.	Systems for Whole Body Vibration – Current State of Technology, Paper ID: 140 <i>Alina Iliescu, Ileana Ciobanu, Alina Magdalena Popescu, Doina Ioana Badea, Petre Lucian Seiciu, Tadeusz Mikolajczyk and Mihai Berteanu</i>
4.	Subjective Comparison Between Ocular Refraction Corrections With Eyeglasses Versus Contact Lenses, Paper ID: 147 <i>Daniela Mariana Barbu</i>
5.	A Hybrid Brain-Computer Interface Implementation for the Control of an Assistive Device, Paper ID: 155 <i>Alexandru Ianosu-Andreeva-Dimitrova, Dan Silviu Mandru and Adrian Abrudean</i>
6.	Detecting the Coupling Direction between both Hands Physiological Tremors – a Non-Parametric Directionality Analysis, Paper ID: 170 <i>Dobrea Monica-Claudia and Dobrea Dan Marius</i>
7.	An Evaluation of the Side Impact of Pulsed Electromagnetic Field Emitted by Physiotherapeutic Devices, Paper ID: 173 <i>Jolanta Karpowicz, Krzysztof Gryz and Simona Miclaus</i>
8.	Short-Term Heart Rate Variability using Wrist-Worn Pulse Wave Monitor Compared to a Holter ECG, Paper ID: 184 <i>Hariton Costin, Alexandru Pasarica, Ioana-Dana Alexa, Adina Carmen Ilie, Cristian Rotariu and Diana Costin</i>
9.	Biophotonic Laser Holographic Model of Eye and Vision, Paper ID: 199 <i>Mariana Daniela Manu, Gheorghe Plesu and Hariton Costin</i>

Medical imaging and Image processing (I) - MIIP1

Friday, 23rd of June, 11:30 – 13:30

Constantin Brâncuși Room (B) – Palace Hotel

Chairpersons: *Mario Cesarelli, Constantin Vertan*

1.	Structural Image Interpolation using a Nonlinear Second-order Hyperbolic PDE-based Model, Paper ID: 4 <i>Tudor Barbu</i>
2.	Retinal Vessel Labeling Technique, Paper ID: 34 <i>Florin Rotaru, Silviu Ioan Bejinariu, Ramona Luca, Cristina Nita, Adrian Ciobanu and Mihaela Luca</i>
3.	Integrated Platform for Extracting Dental Knowledge Imaging and 3D Modeling, Paper ID: 46 <i>Iuliana Marin, Nicolae Goga, Andrei Vasileteanu and Ionel-Bujor Pavaloiu</i>
4.	Respiratory Rate Estimation using Nostril Detection in Thermal Video Streams, Paper ID: 58 <i>Bogdan Mocanu, Dragos Taralunga, Ruxandra Tapu and Ermina Tapu</i>
5.	An Analysis on Tissue Deformation during Robotic Biopsy Needle Insertion, Paper ID: 62 <i>Silviu Butnariu, Teodora Gîrbacia and Florin Gîrbacia</i>
6.	MPEG-7 Visual Descriptors Selection for Burn Characterization by Multidimensional Scaling Match, Paper ID: 75 <i>Constantin Vertan, Mihai-Sorin Badea, Corneliu Florea, Laura Florea and Silviu Badoiu</i>
7.	A Study on Face Recognition with Applications in Prosopagnosia and Management of Patients, Paper ID: 76 <i>Marinel Enache</i>

Biomaterials and Biotechnologies (I) - BB1

Friday, 23rd of June, 11:30 – 13:30

Mircea Eliade Room (C) – Palace Hotel

Chairpersons: *Liliana Vereștiuc, Thierry Gloriant*

1.	Equilibrium Isotherm Study of Metal Ions Adsorption on PET Recycled Fibers, Paper ID: 28 <i>Bianca Cojocariu, Anca Mihaela Mocanu, Dumitru Bulgariu, Gabriela Nacu and Laura Bulgariu</i>
2.	Quantitative Removal of Hg(II) Ions from Aqueous Media by Biosorption on Rape Waste Biomass, Paper ID: 29 <i>Teodora (Ionel) Arsenie, Lacrămioara (Negrilă) Nemeș, Gabriela Nacu and Laura Bulgariu</i>
3.	Overview on the Microbiological Quality of some Meat Products with Impact on the Food Safety and Health of People, Paper ID: 33 <i>Laur Manea, Lavinia Buruleanu, Turid Rustad, Iuliana Manea and Elena Barascu</i>
4.	Contributions Regarding the Obtaining and Characterization of New Titanium based Alloys for Medical Applications, Paper ID: 40 <i>Mihai Buzatu and Traian Buzatu</i>
5.	Solid Lipid Nanoparticles in Reversing The Acquired Tamoxifen –Resistance, Paper ID: 52, <i>Gamze Guney Eskiler, Gulsah Cecener, Unal Egeli and Berrin Tunca</i>
6.	The Matter of Clinical Sequencing for Familial Breast Cancer: The route from Sanger to Next Generation, Paper ID: 53 <i>Işıl Ezgi Eryılmaz, Gamze Guney Eskiler, Gulsah Cecener, Unal Egeli and Berrin Tunca</i>
7.	Improved Selectivity in Detecting Controlled Amphetamines and their Main Precursors based on Laser Infrared Spectra, Paper ID: 67 <i>Mirela Praisler, Stefanut Ciochina and Catalin Negoita</i>

Biomechanics (II) - BMEC2

Friday, 23rd of June, 11:30 – 13:30

Nicolae Iorga Room (D) – Palace Hotel

Chairpersons: *Mihaela Baritz, Diana Cotoros*

1.	Gait Rehabilitation Monitor , <i>Paper ID: 127</i> <i>Paulo Leite and Octavian Postolache</i>
2.	Deterioration by Friction on Contact Surfaces of the Total Knee Prosthesis , <i>Paper ID: 141</i> <i>Alina Magdalena Popescu, Ileana Ciobanu, Petre Lucian Seiciu, Alina Iliescu, Doina Ioana Badea, Tadeusz Mikolajczyk and Mihai Berteanu</i>
3.	Anticipatory Postural Adjustments of Gait Initiation in Healthy Subjects: the Effect of Interfoot Distance , <i>Paper ID: 159</i> <i>Mariangela Dipaola, Esteban Enrique Pavan, Paolo Cavallari and Carlo Albino Frigo</i>
4.	Virtual Instrument for Assisted Evaluation of Body Stability for Potential Sportive Persons , <i>Paper ID: 161</i> <i>Mihaela Baritz and Barbu Braun</i>
5.	The Correlation between Ocular Physio-pathological Manifestations and Bipodal Postural Reactions , <i>Paper ID: 162</i> <i>Mihaela Baritz and Barbu Braun</i>
6.	Alterations of Load Transfer Mechanism During Gait Initiation in Parkinson's Disease , <i>Paper ID: 165</i> <i>Mariangela Dipaola, Carlo Albino Frigo, Paolo Cavallari and Ioannis Ugo Isaias</i>

Workshop: Bioengineering application for space and security - BSS

Friday, 23rd of June, 11:30 – 13:30

King Ferdinand Room (E) – Caraiman Hotel

Chairpersons: Ioan Crăciun, Vlad Văleanu, Radu Ciorap

1.	Framework for an Embedded Emotion Assessment System for Space Science Applications, <i>Paper ID: 23</i> <i>Andra Băltoiu, Lucian Petrică, Adrian Dinculescu and Cristian Vizitiu</i>
2.	Combined Thermal Infrared and Visual Spectrum Imaging Novel Methodology for Astronauts' Psychophysiological Assessment. Verification for Respiration Rate Determination, <i>Paper ID: 24</i> <i>Adrian Dinculescu, Cristian Vizitiu and Vlad Valeanu</i>
3.	Case Study on Muscular Response to Pulse Mechanical Stimulation after Immobilization, <i>Paper ID: 113</i> <i>Alexandru Nistorescu, Pierre de Hillerin, Andra Baltoiu and Călin Marin</i>
4.	A Review of Romanian Space Agency's Activity in the Field of Telemedicine and e-Health, <i>Paper ID: 189</i> <i>Calin Popovici, Vlad Valeanu and Pierre Joseph De Hillerin</i>
5.	Critical space infrastructures: implications for medicine, <i>Paper ID: 218</i> <i>Ulpia Botezatu</i>

Workshop: Medicine and Informatics - MI

Friday, 23rd of June, 14:30 – 18:00

George Enescu Room (A) – Palace Hotel

Chairperson: *Diana Ilie, Anca Munteanu*

1.	Telemedicine: Good or Bad and for Whom?, Paper ID: 16 <i>Ileana Antohe, Mariana Floria and Elena Mihaela Carausu</i>
2.	Development and Validation of an Instrument to Assess Evidence Based-Practice, Paper ID: 39 <i>Roxana-Denisa Capras, Tudor C. Drugan and Sorana D. Bolboaca</i>
3.	Clinical Characteristics And Treatment Of Epilepsy In Children With Tuberos Sclerosis Complex, Paper ID: 44 <i>Ioana Grigore, Georgeta Diaconu, Marin Burlea, Ancuta Ignat, Elena Luca and Vasile Valeriu Lupu</i>
4.	Ischemic Stroke by Multifactorial Cause in Children, Paper ID: 64 <i>Ioana Grigore, Georgeta Diaconu, Alexandra Mania and Irina Ciomaga</i>
5.	C-NAIL - A New Implant for Minimally-Invasive Treatment of Intraarticular Calcaneal Fractures, Paper ID: 71 <i>Bogdan Veliceasa, Bogdan Puha, Teodor Stefan Gheorghevici, Vasile Lisnic, Dragos Popescu and Ovidiu Alexa</i>
6.	Persistent Bone Edema, Anterior Tibial Pain and Delay in Bone Neo-formation Associated with Poly-L-lactic Acid Screws Fixation of the Anterior Cruciate Ligament Graft, Paper ID: 79 <i>Radu Prejbeanu, Mihail Lazar Mioc and Daniel Malita</i>
7.	Sarcopenia and the Importance of Biochemical Determinations in the Hospitalised Older Adults, Paper ID: 83 <i>Adina Carmen Ilie, Anca Iuliana Pislaru, Ioana Cristina Macsim, Alexandra Matasaleru, Ramona Stefaniu, Liana Mos and Ioana Dana Alexa</i>
8.	The Added Value of Using Fusion-DWI Technique in Day to Day Practice for Appreciating Placental Invasion of the Myometrium, Paper ID: 90 <i>Daniel Claudiu Malita, Cristina Saracin, Dan Costachescu and Radu Prejbeanu</i>
9.	Techniques of Determening Arterial Stiffness in Clinical Practice, Paper ID: 93 <i>Anca Iuliana Pislaru, Adina Carmen Ilie, Irina Mihaela Abdulan, Ioana Sandu, Adriana Pancu and Ioana Dana Alexa</i>

10.	<p>Rehabilitation of a 7-year-old Boy with Brachial Plexus Palsy using MIRA Exergames and Vojta Therapy, Paper ID: 101</p> <p><i>Norbert Czako, Ciprian Silaghi and Ramona-Stela Vizitiu</i></p>
11.	<p>Complex Conservative Treatment Of Chronic Tonsillitis In Children Using Local Immunostimulation (Autologous Mononuclear Cells), Paper ID: 104</p> <p><i>Danilov Lucian, I. Ababii, S. Ghinda, V. Nacu, M. Maniuc, P. Ababii, A. Didenscu</i></p>
12.	<p>Electrophysiology Characteristics of Middle Ear in Understanding of Otitis Media Development in Early Childhood, Paper ID: 109</p> <p><i>Svetlana Diacova</i></p>
13.	<p>Analysis of Possible Diagnostic Errors – a Proposed Formula to Improve the Management of Respiratory Patients, Paper ID: 139</p> <p><i>Radu Crisan-Dabija and Traian Mihaescu</i></p>
14.	<p>Ultrasonography Applications in Algo-Disfunctional Syndrome of the Temporomandibular Joint, Paper ID: 188</p> <p><i>Maria Daniela Crăciun, Călina Sînziana Silisteanu, Florin Filip and Roxana Filip</i></p>
15.	<p>Determining the Impact of the Major Prognostic Factors in Breast Cancer, Paper ID: 195</p> <p><i>Anca Munteanu and Sinziana Moldoveanu Butnaru</i></p>
16.	<p>The Use of CT Scan Examination in Pediatric Limb Fractures- Our Experience with Two Cases, Paper ID: 214</p> <p><i>Florin Filip, Mihaita Jr. Creteanu, Maria- Daniela Craciun and Roxana Filip</i></p>

Workshop: Implications of Nanofibres and Nanocomposites in Nowadays Dental Medicine - NNDM

This workshop is organized within grant No. 31589/23.12.2015, funded by Grigore T. Popa University of Medicine and Pharmacy Iasi

Friday, 23rd of June, 15:00 – 17:00

Constantin Brâncuși Room (B) – Palace Hotel

Chairperson: *Irina Grădinaru*

1.	New Mathematical Procedures in the Investigation of Biological Nanostructure Dynamics, <i>Paper ID: 31</i> <i>Irina Nica, Petru-Edward Nica, Vlad Ghizdovat and Maricel Agop</i>
2.	Surface Roughness after Finishing and Polishing of a Restorative NanoComposite Material, <i>Paper ID: 32</i> <i>Sorin Andrian, Bogdan Munteanu, Ionut Taraboanta, Dan Negraia, Petru-Edward Nica, Simona Stoleriu and Irina Nica</i>
3.	On Latest Application Developments for Dental 3D Printing, <i>Paper ID: 55</i> <i>Eugenia Eftimie Totu, Ioana Andreea Stanciu, Cristian Butnarusu, Ibrahim Isildak and Corina Marilena Cristache</i>
4.	Oral Rehabilitation with Occlusal Trays and Adjuvants Aerosols Treatment in Association with Lasertherapy in Patients with Dysfunctional Syndrome of Stomatognathic System and Composite Restoration, <i>Paper ID: 56</i> <i>Laura Elisabeta Checherita, Bogdan Bulancea, Zenovia Surlari, Ovidiu Stamatina and Mihaela Elena Carausu</i>
5.	Evaluation of the Acrylic Dental Resins Silver Nanoparticles Enriched, <i>Paper ID: 61</i> <i>Monica Silvia Tatarciuc, Diana Diaconu-Popa, Florin Munteanu, Andra Aungurencei and Anca Vitalariu</i>
6.	Structural Changes of the Human Saliva Chemical Composition at Wearers of Orthodontic Appliances, <i>Paper ID: 66</i> <i>Georgeta Zegan, Daniela Anistoroaei, Alina Sodor and Cristina Gena Dascalu</i>
7.	A Facile and Versatile Procedure for Deposition of Silver Nanoparticles on Hydroxyapatite, <i>Paper ID: 99</i> <i>Leonard Ignat, Florica Doroftei, Maurusa-Elena Ignat, Gianina Iovan and Irina Grădinaru</i>

8.	Antibacterial Effects of Metal Oxides-containing Nanomaterials in Dentistry, Paper ID: 105 <i>Cristina Mihaela Ghiciuc, Oana Nicoleta Ghiciuc, Lacramioara Ochiuz and Cătălina Elena Lupușoru</i>
9.	Esthetic Landmarks in Different Types of Prostheses Correlated with the Biomaterials Structure, Paper ID: 187 <i>Irina Gradinaru, Cristina Gena Dascalu and Magda Ecaterina Antohe</i>

Biomaterials and Biotechnologies (II) - BB2

Friday, 23rd of June, 15:00 – 17:00

Mircea Eliade Room (C) – Palace Hotel

Chairpersons: *Liliana Vereștiuc, Horia Iovu*

1.	Cluster Analysis Evaluating the Automated Detection of Drugs of Abuse with a New Hollow Fiber based Quantum Cascade Laser Infrared Spectrometer, Paper ID: 69 <i>Stefanut Ciochina, Mirela Praisler and Catalin Negoita</i>
2.	Overview of Human Health Hazards Posed by Pesticides in Plant Products, Paper ID: 87 <i>Petronela Cozma, Laura Carmen Apostol, Raluca Maria Hlihor, Isabela Maria Simion and Maria Gavrilesu</i>
3.	Optical Method for Improving the Accuracy of Biochemical Assays, Paper ID: 110 <i>Manole-Stefan Niculescu</i>
4.	Increased Hydrophilic Properties of Polymeric Fibers Treated in Atmospheric Pressure Plasma, Paper ID: 118 <i>Andrei Vasile Nastuta</i>
5.	Novel Natural-synthetic Hydrogel Scaffolds with Applications in Skin Tissue Repair and Engineering, Paper ID: 203 <i>Ioana Alexandra Tanasa, Anca Emanuela Minuti, Florina Daniela Ivan, Silvia Vasiliu, Maria Butnaru and Liliana Verestiuc</i>
6.	Porous Magnetic Scaffolds For Bone Tissue Engineering and Regeneration, Paper ID: 204 <i>Florina D. Ivan, Ioana G. Avîrvarei, Ioana G. Vasilaș, Mădălina A. Varga, Vera Bălan, Maria Butnaru, Ionel M. Popa and Liliana Verestiuc</i>

Telemedicine, e/m/p-Health, Wearable systems - TM

Friday, 23rd of June, 15:00 – 17:00

Nicolae Iorga Room (D) – Palace Hotel

Chairpersons: *Octavian Postolache, Sorin Puşcoci, Cristian Rotariu*

1.	Wearability Assessment of an Equipment for Spine Posture Monitoring , <i>Paper ID: 9</i> <i>Gheorghe Daniel Voinea and Silviu Butnariu</i>
2.	Communication Issues in E-Health Context , <i>Paper ID: 11</i> <i>Cristina Elena Poenaru, Daniel Merezeanu, Radu Dobrescu and Eugenie Posdarascu</i>
3.	A Cloud-IoT based Sensing Service for Health Monitoring , <i>Paper ID: 17</i> <i>Gabriel Neagu, Ştefan Preda, Alexandru Stanciu and Vladimir Florian</i>
4.	The TeleSCoPE Code Quality Standards for Telehealth Practice across Europe , <i>Paper ID: 88</i> <i>Nicolò Paraciani, Sarah Tabozzi, Davide Di Pasquale, Marco Padula, Luigi Biocca, Claudio Lafortuna, Francesco Maiuri, Drago Rudel and Malcolm Fisk</i>
5.	Personalized mHealth Monitoring for Elders Using MR@Old , <i>Paper ID: 91</i> <i>Sergiu Jecan, Raluca Arba, Lucia Rusu and Irina Mocanu</i>
6.	The Hierarchical Classification Model using SVM with multiple kernels in Human Behavioral Pattern Recognition , <i>Paper ID: 197</i> <i>Sorin Soviany, Virginia Săndulescu and Sorin Puscoci</i>

Workshop: Assistive Technologies for People with Disabilities - AT

Friday, 23rd of June, 15:00 – 17:00

Nicolae Iorga Room (D) – Palace Hotel

Chairpersons: Radu Bozomitu, Cristian Rotariu

1.	Remote Control of a Robotic Platform Based on Hand Gesture Recognition , <i>Paper ID: 186</i> <i>Alexandru Pasarica, Casian Miron, Dragos Arotaritei, Gladiola Andruseac, Hariton Costin and Cristian Rotariu</i>
2.	Eye Tracking User Interface for Internet Access Used in Assistive Technology , <i>Paper ID: 190</i> <i>Robert Gabriel Lupu, Radu Gabriel Bozomitu, Alexandru Pasarica and Cristian Rotariu</i>
3.	Medical System based on Wireless Sensors for Real Time Remote Monitoring of People with Disabilities , <i>Paper ID: 215</i> <i>Cristian Rotariu, Radu G. Bozomitu, Alexandru Pasarica, Dragos Arotaritei and Hariton Costin</i>

Medical imaging and Image processing (II) - MIIP2

Friday, 23rd of June, 15:00 – 17:00

King Ferdinand Room (E) – Caraiman Hotel

Chairpersons: *Mario Cesarelli, Constantin Vertan*

1.	Image Enhancement by Multiobjective Optimization and Bio-inspired Heuristics, Paper ID: 128 <i>Silviu Ioan Bejinariu, Hariton Costin, Florin Rotaru, Ramona Luca, Cristina Nita and Diana Costin</i>
2.	Novel Image Similarity Metric for Evaluating Denoising and Restoration Techniques, Paper ID: 135 <i>Adrian Ciobanu, Tudor Barbu and Cristina Nita</i>
3.	Automatic Measurement of Infantile Hemangiomas, Paper ID: 144 <i>Serban Oprisescu, Mihai Ciuc and Alina Sultana</i>
4.	Representation of Partially-occluded Structures in Regular Point Clouds from 3D Scanner Data Using Vision-based Modulation, Paper ID: 154 <i>Marius Gavrilescu</i>
5.	Important Shape Features for Romanian Medicinal Herb Identification Based on Leaf Image, Paper ID: 171 <i>Ionel-Bujorel Pavaloiu, Robert Ancuceanu, Claudia-Maria Enache and Andrei Vasilateanu</i>
6.	Quantitative Approach of Diffusion-Weighted Imaging Apparent Diffusion Coefficient concerning Characterization of Benign Cranial Meningiomas, Paper ID: 177 <i>Teodora - Anca Albu, Stanca - Mihaela Ples and Iosif Malaescu</i>