GRIGORE T. POPA UNIVERSITY OF MEDICINE AND PHARMACY IASI

FACULTY OF MEDICAL BIOENGINEERING

IEEE E-HEALTH AND BIOENGINEERING CONFERENCE - EHB 2021, 9-th edition, Iași, Romania, November 18-19, 2021

PROGRAM OF PAPERS PRESENTATIONS

All session times are given in EET (East European Time) zone, that is 2 hours ahead of Greenwich Mean Time (GMT))

No.	ID	Section	Authors	Title	Oral/Poster
Assistive Technologies for People with Disabilities - AT **THURSDAY, 18 November, 11:45 – 13:45, Room IV**				
1.	12	AT	Yoram Segal, Yuval Yona, Omer Danan, Raz Birman, Ofer Hadar, Patrik Kutilek, Jan Hejda, Michaela Hourova, Pavel Kral, Lenka Lhotska, Jaromir Dolezal and Jindrich Adolf	Camera Setup and Openpose Software Without GPU for Calibration And Recording in Telerehabilitation Use	Oral
2.	31	AT	Georgiana Ionela Paduraru, Constantin Romică Stoica, Valentin Barbu, Mihaela Anca Alexe, Petre Lucian Seiciu, Ileana Ciobanu, Alina Iliescu, Doina Ioana Badea and Mihai Berteanu	Compact Rolling Walker Mechatronic System for Gait Rehabilitation	Poster
3.	68	AT	Doina Ioana Badea, Ileana Ciobanu, Alina Iliescu, Georgiana Ionela Paduraru, Constantin Romică Stoica, Mihaela Anca Alexe, Delia Alexandra Prisecaru, Petre Lucian Seiciu and Mihai Berteanu	Changes in pelvic biomechanics induced by RELIVE overground gait rehabilitation system	Oral
4.	116	AT	Veronica Gavrila, Lidia Bajenaru, Mihaela Tomescu and Ciprian Dobre	Medical rehabilitation system based on depth camera: vINCI study	Oral
5.	178	AT	Marius Dragoi, Irina Mocanu and Oana Cramariuc	Object Manipulation for Assistive Robots	Oral
6.	179	AT	Qasim Ali, Ilona Heldal and Carsten Gunnar Helgesen	A Bibliometric Analysis and Visualization of the Use of Eye-Tracking Technologies for Vision Screening	Oral
7.	221	AT	Marian Poboroniuc, Danut-Constantin Irimia, Radu Ionascu, Andrei Iulian Roman, Alexandru Mitocaru and Alina Georgiana Baciu	Design and Experimental Results of New Devices for Upper Limb Rehabilitation in Stroke	Oral
8.	222	AT	Iuliana Chiuchisan, Oana Geman and Dragos Vicoveanu	Serious Games used in Rehabilitation of Patients with Osteoarthritis	Oral
9.	173	AT	Leo Cespedes-Simangas, Cristhian Uribe-Obregon and Michael Cabanillas-Carbonell	Mobile application to improve the therapy process in children with delayed speech onset	Oral

			Environmental protection and Health I – EPH I THURSDAY, 18 November, 9:30 – 11:30, Room IV		
1.	30	EPH I	Alina Roxana Lucaci, Iulia Simona Badescu and Laura Bulgariu	Comparative study of Cu(II) ions removal using red and green marine algae biomass as biosorbents	Oral
2.	33	EPH I	Magdalena Bîrsan, Matei Palimariciuc, Ana Caterina Cristofor, Adriana Ciurba and Cătălina Daniela Stan	Health Risk Assessment of Mercury in Cosmetics	Poster
3.	35	EPH I	Mariana Minut, Petronela Cozma, Mihaela Rosca, Ionela Catalina Vasilachi, Raluca Maria Hlihor, Mariana Diaconu and Maria Gavrilescu	Recovery of Valuable Heavy Metals from Polluted Soil Using Phytomining Process - A New Challenge for Earning Secondary Raw Materials and Health Risk Reduction	Poster
4.	80	EPH I	Raluca Maria Hlihor, Mihaela Roşca, Cătălina Filote, Isabela Maria Simion, Petronela Cozma, Maria Apostol, Gabriela Irina Cara and Maria Gavrilescu	Wastewaters Contamination with Persistent Pollutants and their Removal by Biosorption	Oral
5.	82	EPH I	Gabriel Mihăiță Daraban, Raluca Maria Hlihor, Maria Apostol, Marinela Bădeanu and Daniela Şuteu	Secondary Plant Metabolites: Sources of Principles for use in Agriculture, Food Industry and for Human Health Safety	Oral
6.	83	EPH I	Bianca Azanfire and Laura Bulgariu	Thermodynamic studies of Pb(II) ions adsorption from aqueous solutions by clay adsorbent	Oral
7.	88	EPH I	Ungureanu-Comanita Elena-Diana, Olteanu Simona, Cosbuc Ersilia, Smaranda Camelia and Gavrilescu Maria	Environmental Pressures Generated by Bakery Waste and Their Sustainable Management	Poster
8.	92	EPH I	Cătălina Filote, Raluca-Maria Hlihor, Isabela Maria Simion and Mihaela Roşca	Life Cycle Assessment (LCA) Application for Heavy Metals Removal from Wastewaters using Conventional and Microbial Sorbents	Oral
9.	101	EPH I	Vasilachi Ionela Catalina, Minut Mariana, Betianu Camelia and Gavrilescu Maria	Investigation of the toxic effects of lead on maize germination and growth (Zea mays)	Oral

			Environmental protection and Health II – EPH II FRIDAY, 19 November, 11:15 – 13:30, Room II		
1.	104	EPH II	Mihaela Rosca, Raluca-Maria Hlihor, Petronela Cozma, Isabela-Maria Simion, Catalina Filote, Codrina Grecu, Vasile Stoleru and Maria Gavrilescu	Scaling-Up Strategies of Heavy Metals Microbial Bioremediation	Oral
2.	105	EPH II	Petronela Cozma, Raluca-Maria Hlihor, Mihaela Rosca, Isabela-Maria Simion, Maria Apostol and Maria Gavrilescu	Progress in microbial bioremediation of industrial effluents using different bioreactors design: An overview	Oral

3.	150	EPH II	Laura Hagiu Zaleschi, Maria Apostol, Isabela Maria Simion, Gabriela Irina Cara, Gabriel Ciprian Teliban, Mihai Stavarache, Adrian Nazare and Raluca Maria Hlihor	Short Overview of Heavy Metals Effects for Plants and Human Health and Their Determination in Medicinal Plants	Oral
4.	161	EPH II	Isabela Maria Simion, Raluca Maria Hlihor, Mihaela Roșca, Cătălina Filote and Petronela Cozma	Sustainable Cost Indicators Used in Biosorption Process Applied for Heavy Metals Removal	Oral
5.	169	EPH II	Cozma Petronela, Raluca Hlihor, Mihaela Rosca, Mariana Minut, Mariana Diaconu and Maria Gavrilescu	Coupling phytoremediation with plant biomass valorisation and metal recovery: an overview	Oral
6.	175	EPH II	Cosbuc Ersilia, Ungureanu-Comanita Elena-Diana and Gavrilescu Maria	Identification of the risks generated in the environment by food waste	Poster
7.	185	EPH II	Maria Apostol, Raluca Maria Hlihor, Gabriel Mihăiță Daraban, Laura Hagiu Zaleschi and Isabela Maria Simion	Heavy Metal Pollution in the Environment and Their Effects to Ornamental Plants	Poster

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Decision support systems, AI, Bioinformatics, Learning I - DSS-AI I **THURSDAY, 18 November, 9:30 – 11:30, Room II**					
1.	5	DSS-AI I	Victor Motogna, Georgina Lupu-Florian and Eugen Lupu	Strategy for Affective Computing Based on HRV and EDA	Oral
2.	13	DSS-AI I	Sabah Mohammed, Jinan Fiaidhi and Darien Sawyer	Generating Physician Standing Orders for Unplanned Care Scenarios using the HL7 FHIR Patient Summaries	Oral
3.	14	DSS-AI I	Shao-Wei Wang and Sung-Nien Yu	Emotion Recognition Based on Photoplethysmography Using ResNet and BiLSTM Networks	Poster
4.	25	DSS-AI I	Bushra Alsaadi and Dimah Alahmadi	The Use of Persona Towards Human-Centered Design in Health Field: Review of Types and Technologies	Oral
5.	42	DSS-AI I	Bogdan Aman and Gabriel Ciobanu	Computational Power of Astrocytes and their Role in Neurobiology	Oral
6.	54	DSS-AI I	Gabriel Cristian Dragomir-Loga and Marius Pop	Edmonds' Blossom algorithm analysis in a medical emergency management system	Oral
7.	59	DSS-AI I	Laura Chirilă, Darius-Luca Cristea and Ovidiu Baniaș	CXR-based diagnosis of COVID-19 using Deep Learning with CycleGAN for Data Augmentation	Oral
8.	67	DSS-AI I	Alexandru-Toma Andrei and Ovidiu Grigore	Unsupervised machine learning algorithms used in deforested areas monitoring	Oral
9.	213	DSS-AI I	Sorin Soviany, Sorin Puscoci, Virginia Sandulescu and Florin Serbanescu	A Multi-layer Feature Fusion Model for Biometric Systems	Oral
10.	8	DSS-AI I	Sandy Gutierrez-Espinoza and Michael Cabanillas-Carbonell	Machine learning analysis for cervical cancer prediction, a systematic review of the literature	Poster

			Decision support systems, AI, Bioinformatics, Learning II - DSS-AI II THURSDAY, 18 November, 11:45 – 13:45, Room II		
1.	69	DSS-AI II	Alicia Falcon-Caro and Saeid Sanei	Diffusion Adaptation for Crowd Analysis	Oral
2.	71	DSS-AI II	Rui Lebre and Carlos Costa	An efficient and reliable architecture for distributing medical imaging data	Poster
3.	75	DSS-AI II	Madalina Sofia Pasca, Bogdan Caruntu, Adina Juratoni, Olivia Bundau and Adriana Albu	Least Squares Differential Quadrature Method for Systems of Fractional Order Differential Equations	Poster
4.	77	DSS-AI II	Catalina Mercedes Burlacu, Steluta Gosav, Bianca Andreea Burlacu and Mirela Praisler	Convolutional Neural Network detecting synthetic cannabinoids	Oral
5.	79	DSS-AI II	I Gede Susrama Mas Diyasa, Radical Rakhman Wahid and Brilian Putra Amiruddin	Grasping Adversarial Attacks on Deep Convolutional Neural Networks for Cholangiocarcinoma Classification	Oral
6.	84	DSS-AI II	Kristijan Cincar and Todor Ivascu	Rule-based health status evaluation system	Oral
7.	97	DSS-AI II	Alina Petrica, Alexandru Ciuta, Adina Maria Marza, Mihai-Octavian Botea, Ovidiu Alexandru Mederle and Diana Lungeanu	Video 360-Degree in Medical Teaching: from Script to Education Deployment	Oral
8.	103	DSS-AI II	Erick Mendez Guzman, Ruthvik Konduru, Mohammed Yassin, Sandeep Konduru and Farideh Jalali-Najafabadi	Application of Latent Semantic Analysis and Supervised Learning Methods to Automate Triage of Referral Letters for Spinal Surgery	Oral
9.	108	DSS-AI II	Ruxandra Tapu and Bogdan Mocanu	Automatic Subtitle Placement Through Active Speaker Identification in Multimedia Documents	Oral
10.	227	DSS-AI II	Lubomír Štěpánek, Filip Habarta, Ivana Malá and Luboš Marek	Data envelopment analysis models connected in time series: a case study evaluating COVID-19 pandemic management in selected European countries	Oral

			Decision support systems, AI, Bioinformatics, Learning III - DSS-AI III FRIDAY, 19 November, 9:00 – 11:00, Room I		
1.	20	DSS-AI III	Cristina Elena Mazilu and Adrian-Costin Tundrea	A Fractal Approach to Streamline the Management of Hospital Information Systems	Oral
2.	112	DSS-AI III	Bruno Ribeiro, Vítor Cerqueira, Ricardo Santos and Hugo Gamboa	Layered Learning for Acute Hypotensive Episode Prediction in the ICU: An Alternative Approach	Oral
3.	118	DSS-AI III	Franscico Mesquita, José Maurício and Gonçalo Marques	Oversampling techniques for diabetes classification: A comparative study	Oral

4.	120	DSS-AI III	Claudia Zaharia, Raluca Muresan and Daniela Zaharie	Can association rules be used to improve additive Bayesian network models?	Oral
5.	121	DSS-AI III	Maftei Alexandru Adrian, Mutescu Partemie Marian, Popa Valentin, Petrariu Adrian Ioan and Lavric Alexandru	Internet of Things healthcare application: A blockchain and LoRa approach	Oral
6.	124	DSS-AI III	Alexandru Lavric, Adrian I. Petrariu, Stefan Havriliuc and Eugen Coca	Glaucoma Detection by Artificial Intelligence: GlauNet A Deep Learning Framework	Poster
7.	145	DSS-AI III	Beatrix-May Balaban, Ioan Stefan Sacala, Alina-Claudia Petrescu-Nita, Florin Pop and Andreea Udrea	A Cyber-Physical Systems approach for Health Care Prediction	Oral
8.	146	DSS-AI III	Chrysostomos Symvoulidis, Argyro Mavrogiorgou, Athanasios Kiourtis, Georgios Marinos and Dimosthenis Kyriazis	Facilitating Health Information Exchange in Medical Emergencies	Oral
9.	148	DSS-AI III	Adrian Dinculescu, Cosmin Dragos Dugan, Cristian Vizitiu and Ioanina Parlatescu	Study on Choice Reaction Time as a Complementary Method in Idiopathic Orofacial Pain	Poster
10.	157	DSS-AI III	Calin Vaida, Nicolae Crisan, Iosif Birlescu, Iulia Andras and Doina Pisla	Preliminary Assessment of Artificial Intelligence Agents for a SILS Robotic System	Oral

Decision support systems, AI, Bioinformatics, Learning IV - DSS-AI IV FRIDAY, 19 November, 11:15 – 13:30, Room I					
1.	162	DSS-AI IV	Zornitsa Zlatarova, Hristova Elitsa, Kristina Bliznakova, Zhaneta Yaneva, Lidiya Zaduryan, Daliya Stefanova, Tatyana Pavlova, Darina Koseva and Klara Dokova	Development and functioning of a regional diabetic retinopathy register in the city of Varna, Bulgaria – first results	Oral
2.	168	DSS-AI IV	Constantin Viorel Marian	Artificial Intelligence expert system based on continuous glucose monitoring (CGM) data for auto-adaptive adjustment therapy protocol – how to make sensors and patients to think forward and work together?	Oral
3.	174	DSS-AI IV	Irina Mocanu, Razvan Smadu, Marius Dragoi, Andrei Mocanu and Oana Cramariuc	Testing Federated Learning on Health and Wellbeing Data	Oral
4.	176	DSS-AI IV	Cosmin Ion Tomozei, Elena Nechita and Dorian Lazar	Deep Learning Solution for Diabetic Retinopathy Diagnosis based on Convolutional Neural Networks and Image Processing Algorithms	Oral
5.	188	DSS-AI IV	Tord Hettervik Frøland, Ilona Heldal, Gry Sjøholt and Elisabeth Ersvær	Merging 360°-videos and Game-Based Virtual Environments for Phlebotomy Training: Teachers and Students View	Oral
6.	192	DSS-AI IV	Radu A. Ciora and Adriana L. Cioca	Fake News Management in Healthcare	Poster

7.	194	DSS-AI IV	Chems Eddine Louahem M'Sabah, Ahmed Bouziane and Youcef Ferdi	A Survey on Deep Learning Methods for Cancer Diagnosis Using Multimodal Data Fusion	Oral
8.	205	DSS-AI IV	Marius Dan Zbancioc and Monica Feraru	Emotion Recognition for Romanian Language Using MFSC Images with Deep- Learning Neural Networks	Oral
9.	207	DSS-AI IV	Alina Cărunta, Mihai Pleşu and Cristina Cărunta	Analysis of Antimicrobial Resistance and Sensitivity Patterns for E.Coli and S. Aureus using a Mutual Information Score	Poster
10.	210	DSS-AI IV	Dragos Andrei Chiran, Anca Sava, Cristina Furnica, Claudia Cristina Tarniceriu and Cristinel Ionel Stan	Highly Scalable Online Examination Using a Combined Dual-Platform Approach in Medical Education	Oral

Medical devices, Instrumentation, Modeling/Simulation, Robotics I - MD I THURSDAY, 18 November, 9:30 – 11:30, Room I					
1.	163	MD I	Simon Walzel and Karel Roubik	Decrease in brain oxygenation is significantly less pronounced than decrease in SpO2 during short-time breathing experiments in simulated avalanche snow	Oral
2.	9	MD I	Stavros-Theofanis Miloulis, Ioannis Kakkos, Aikaterini Karampasi, Ioannis Zorzos, Errikos-Chaim Ventouras, George K. Matsopoulos, Panteleimon Asvestas and Ioannis Kalatzis	Stimulus Effects on Subject-Specific BCI Classification Training using Motor Imagery	Oral
3.	15	MD I	Lesya Anishchenko, Vera Lobanova, Mikhail Bochkarev, Lyudmila Korostovtseva and Yurii Sviryaev	Two-Channel Bioradar System for Sleep-Disordered Breathing Detection	Oral
4.	16	MD I	Cristian Fosalau, Ionut Adrian Iftode and Cristian Zet	A New Respiratory Rate Sensing Principle Based on Magnetic Amorphous Wire Microtransformers	Oral
5.	19	MD I	Vera Lobanova and Lesya Anishchenko	Rotations Recognition in Sleeping Humans by Means of Bioradiolocation and Machine Learning	Oral
6.	24	MD I	Ali Ibrahim, Kabalan Chaccour, Amir Hajjam El Hassani and Georges Badr	Fall Detection Algorithm using Body Angle for Accurate Classification of Falls and ADLs	Oral
7.	28	MD I	Shahrokh Sani	A New Approach for Identifying Patients with Obstructive Sleep Apnea Using K-Nearest Neighbor Classification	Oral
8.	29	MD I	Walid A. Zgallai, Teye Brown, Entesar Z. Dalah, Abdulmunhem K. Obaideen and Moezalislam E. Faris	Automated Assessment Implementation of Subcutaneous Adipose & Visceral Adipose Tissues in Human Abdominal Area	Oral
9.	37	MD I	Ziyi Zhang, Yindong Huang, Ruixing Wang, Liang Ding and Peiguo Liu	A Finite Element Head Model Based on Chinese Visible Human Dataset for Electromagnetic Simulations of Magnetic Induction Measurement	Oral

			Medical devices, Instrumentation, Modeling/Simulation, Robotics II - MD II THURSDAY, 18 November, 11:45 – 13:45, Room I		
1.	39	MD II	Leos Tejkl, Petr Kudrna, Lukas Poviser, Alzbeta Saboukova and Jakub Rafl	Patient Simulators in Medical Education: New Enhancements II	Oral
2.	43	MD II	Tihomir Georgiev and Kristina Bliznakova	Contrast Agent Dual Energy Imaging: Computer Simulations In Search For Printing Materials	Oral
3.	45	MD II	M. Iliukha, S. Mamilov, D. Velyhotskyi, I. Bekh, O. Strykun	Software and Hardware Implementation of Current Monitoring Methods on Changes in the Health Status of Carbon Monoxide Poisoned	Poster
4.	46	MD II	Yu Xie, Tamás Majoros and Stefan Oniga	Hardware Implementation of CNN Based on FPGA for EEG Signal Paterns Recognition	Oral
5.	47	MD II	Adrian Vulpe-Grigoraşi and Ovidiu Grigore	A neural network approach for anxiety detection based on ECG	Oral
6.	48	MD II	Shahrokh Sani and Kambiz Ghazinour	A Single Channel Low-Cost Surface Electromyography Acquisition System	Oral
7.	56	MD II	Mario Formisano, Luigi Iuppariello, G. Mirone, Giuseppe Cinalli, Antonio Casaburi, Pasquale Guida and Fabrizio Clemente	3D printed anatomical model for surgical planning: a pediatric hospital experience	Oral
8.	57	MD II	Cristian Gabriel Alionte, Dana Rizescu and Ciprian Ion Rizescu	Online Teaching Tools for Optometrist Professionals	Oral
9.	58	MD II	Alexandru Cismas, Ioana Matei and Decebal Popescu	Condensed Survey on Wearable IoBT Devices	Oral

			Medical devices, Instrumentation, Modeling/Simulation, Robotics III - MD III THURSDAY, 18 November, 14:00 – 16:00, Room III		
1.	60	MD III	Barbu Braun and Corneliu-Nicolae Druga	Low Cost Solution for Glassses Components Assisted Inspection Optometry Offices Workshops	Poster
2.	62	MD III	Corina Ene, Ioana-Raluca Adochiei, Cristina-Daniela Enache, Teodor-Iulian Voicila and Daniel-Iulian Voiculescu	The Identification and Classification of Facial Expressions under Stress using an EMG	Oral
3.	63	MD III	Andra-Laura Dobre, Violeta Vasilica Argatu, Cristina-Daniela Enache, Teodor-Iulian Voicila and Daniel-Iulian Voiculescu	Monitoring System For Patients with Epilepsy	Oral

4.	78	MD III	Alexe Ciurea, Cristina-Petruta Manoila and Bogdan Ionescu	smartEEG: An End-to-End Framework for the Analysis and Classification of EEG signals	Oral
5.	211	MD III	David Andrei Fetcu, George Seritan, Florin Ciprian Argatu, Bogdan-Adrian Enache and Felix Constantin Adochiei	Air Quality Monitoring and Control System for a Hospital Room	Oral
6.	217	MD III	Andreea-Maria Mitrofan and Alexandru M. Morega	Hemodynamic – Structural Interactions in a Stented Arterial Aneurysm	Oral
7.	99	MD III	Lorant Szolga and Emese Deak	Home Healthcare Device	Poster
8.	111	MD III	Severin Ionut	A Brief Review of Using the Inertial Sensor to Determine the Driver Head Posture	Oral
9.	113	MD III	Kristina Bliznakova, Nikiforos Okkalidis, Alexander Zlatarov and Zhivko Bliznakov	An approach in optimimising the 3D printing materials used in manufacturing of 3D breast phantoms: The case of PLA	Poster
10.	230	MD III	Teofil Ursache, Gladiola Gabriela Petroiu, Cristian Rotariu	Remote monitoring of blood pressure by using wireless devices	Oral
11.	231	MD III	Robert Fuior, Calin Corciova, Alexandru Salceanu	Improved Electrocardiogram Analysis Techniques	Oral

Medical devices, Instrumentation, Modeling/Simulation, Robotics IV - MD IV FRIDAY, 19 November, 9:00 – 11:00, Room III					
1.	151	MD IV	Robert LeMoyne and Timothy Mastroianni	Machine Learning Classification of Diadochokinesia for a Hemiplegic Ankle Foot Complex Pair	Oral
2.	138	MD IV	Cosmin Dragos Dugan, Ioanina Parlatescu, Adrian Dinculescu and Cristian Vizitiu	Therapeutic potential of noninvasive transcranial magnetic stimulation in burning mouth syndrome	Oral
3.	139	MD IV	Alexandru Ianosi-Andreeva-Dimitrova and Dan Mandru	Serious Game for Motor-Imagery based Brain-Computer Interface training	Oral
4.	141	MD IV	Iosif Birlescu, Florin Graur, Calin Vaida, Corina Radu, Paul Tucan, Bogdan Gherman, Nadim Al Hajjar, Adrian Pisla and Doina Pisla	Experimental Testing and Implementation of a Force – Torque Sensor in Automated Percutaneous Needle Insertion Instruments	Oral
5.	142	MD IV	Vasilică-Gabriel Sasu, Bogdan-Iulian Ciubotaru, Ramona Popovici, Alexandru-Filip Popovici, Goga Nicolae and Gora Datta	A quantitative research for determining the user requirements for developing a system to detect depression	Oral
6.	127	MD IV	Lorant Szolga and Alexandru Strugaru	Emergency Siren Detection System for Deaf People	Poster
7.	156	MD IV	Alionte Cristian Gabriel, Staetu Gigi Nelu, Ungureanu Liviu Marian, Ciobanu Alexandru Costin, Negoita Alexandra and Alionte Andreea Dana	Aberrations Assessment of Progressive Lens Using an Educational Aberrometer	Oral

| 8. | 158 | MD IV | Sarah Solbiati, Andrea Buffoli, Valentino Megale, Gianfranco Damato, Bruno Lenzi, Giacomo Langfelder and Enrico Gianluca Caiani | Detecting Heart Rate From Virtual Reality Headset-Embedded Inertial Sensors: a Kinetic Energy Approach | Oral |
| 9. | 6 | MD IV | Clive Cheong Took, Steve Alty, David Martin-Lopez, Antonio Valentín, Gonzalo Alarcon and Saeid Sanei | Transfer Learning of EEG for Analysis of Interictal Epileptiform Discharges | Oral |

Medical devices, Instrumentation, Modeling/Simulation, Robotics V - MD V FRIDAY, 19 November, 13:45 – 15:45, Room I					
1.	164	MD V	Theodora Chivu and Dragos Daniel Taralunga	Wearable Biopotential Acquisition Module For mHealth Systems	Oral
2.	167	MD V	Turgay Kalinov, Alexander Zlatarov, Kristina Bliznakova and Sivo Daskalov	Training of basic laparoscopic skills on Lap Mentor	Oral
3.	177	MD V	Oana Andreea Rușanu	The Development of a Brain-Computer Interface for Controlling a Robotic Arm and a Mobile Device by Using the Voluntary Eye Blinking	Oral
4.	190	MD V	David Hyldgaard, Frederik Jarosch Von Schweder, Qasim Ali, Ilona Heldal, Mari Kalland Knapstad and Torbjørn Aasen	Open Source Affordable Balance Testing based on a Nintendo Wii Balance Board	Oral
5.	201	MD V	Gianluca Barile, Salvatore Andrea Pullano, Antonino S. Fiorillo and Giuseppe Ferri	A Broadband Approach for the Generation and Reception of Low-Frequency Ultrasounds In-Air for Sonar Applications	Oral
6.	204	MD V	Karel Roubik, Josef Skola, Lenka Horakova, Vaclav Ort and Simon Walzel	First clinical use of rapidly designed and manufactured mechanical lung ventilator CoroVent for COVID-19 patients	Oral
7.	206	MD V	Petr Kudrna, Martin Rožánek and Abdalla Massad	Measurement of Tissue Heat Load Around a Transcutaneous Sensor Using a Thermal Imaging Camera - a Pilot Study	Oral
8.	209	MD V	Lenka Horakova, Petr Kudrna and Karel Roubik	Dynamic changes of perfusion index during hypoxemia and hypercapnia in outdoor experiments	Oral
9.	87	MD V	Cristian Catalin Gavat and Afrodita Doina Marculescu	Method Development for Visible Spectrophotometric Analysis of Ibuprofen in Pharmaceuticals	Poster
10.	91	MD V	Camil Ciprian Mirestean, Alexandru Dumitru Zara, Roxana Irina Iancu and Dragos Teodor Petru Iancu	Delta-radiomics and CT re-simulation for radiotherapy planning, new perspectives beyond adaptive radiotherapy (ART)	Poster

Biomedical Signal Processing I – SP I **THURSDAY, 18 November, 9:30 – 11:30, Room III**
1.	144	SP I	Robert LeMoyne and Timothy Mastroianni	Biometrics of ECG Signal through Temporal Organization with Support Vector Machine	Oral
2.	85	SP I	Simon Perche, Deivid Johan Botina Monsalve, Yannick Benezeth, Keisuke Nakamura, Randy Gomez and Johel Miteran	Data-augmentation for deep-learning based remote photoplethysmography methods	Oral
3.	102	SP I	Jakub Šebek, Hana Schaabova and Vladimir Krajca	EEG Classification by Minimalistic Convolutional Neural Network Utilizing Context Information	Oral
4.	110	SP I	Lavinia Ferariu and Adela Ioana Tucas	Using Hand-Crafted and Learned EEG Features for the Detection of Epileptic Seizures	Oral
5.	119	SP I	Alba Díaz-Martinez, Rogelio Monfort-Ortiz, Yiyao Ye-Lin, Javier Garcia-Casado, Félix Nieto-del-Amor, Vicente José Diago-Almela, Iria Rey-Ferreira, Mar Nieto-Tous and Gema Prats-Boluda	Comparative Study of Uterine Myoelectrical Response to Labour Induction Drugs in Nulliparous and Parous Women with Different EHG Analysis Techniques	Oral
6.	126	SP I	Evelin-H. Dulf, Alexandru-G. Berciu, Radu A. Munteanu, Levente Kovacs	Advantages of Prefilters in Stroke Diagnosis from EEG Signals	Poster
7.	140	SP I	Aikaterini Vraka, Fernando Hornero, Aurelio Quesada, Flavia Ravelli, Raul Alcaraz Martínez and Jose Joaquin Rieta	Parallel Study on Surface and Invasive Recordings Across Catheter Ablation Steps of Paroxysmal Atrial Fibrillation	Oral
8.	143	SP I	Aikaterini Vraka, Vicente Bertomeu González, Fernando Hornero, Leif Sörnmo, Raúl Alcaraz Martínez and José Joaquin Rieta	Alternative Time-Domain P-wave Analysis for Precise Information on Substrate Alteration After Pulmonary Vein Isolation for Atrial Fibrillation	Oral
9.	76	SP I	Ana-Luiza Rusnac and Ovidiu Grigore	EEG preprocessing methods for BCI imagined speech signals	Oral

Biomedical Signal Processing II – SP II **THURSDAY, 18 November, 14:00 – 16:00, Room I**
1.	147	SP II	Aikaterini Vraka, Vicente Bertomeu González, Fernando Hornero, Philip Langley, Raul Alcaraz Martínez and Jose Joaquin Rieta	Are Coronary Sinus Features Reflecting the Effect of Catheter Ablation of Atrial Fibrillation as P-waves Do?	Oral
2.	159	SP II	Jesús Cano, Aurelio Quesada, Flavia Ravelli, Roberto Zangróniz, Raúl Alcaraz and José J. Rieta	Novel Photoplethysmographic and Electrocardiographic Features for Enhanced Detection of Hypertensive Individuals	Oral

3.	165	SP II	Jesús Cano, Lorenzo Fácila, Philip Langley, Roberto Zangróniz, Raul Alcaraz Martínez and Jose Joaquin Rieta	Application of Deep Neural Network Models for Blood Pressure Classification based on Photoplethysmograpic Recordings	Oral
4.	166	SP II	Ana Beatriz R. Massaranduba, Bruno F. O. Coelho, Leonardo R. Sampaio and Rodrigo P. Ramos	High order frequency features as emotion discriminators	Oral
5.	171	SP II	Yinhua Yan and Sun Zhou	Seizure Prediction Based on Specific Sub-waves Reconstruction and Maximum-Relevance, Minimum-Redundancy Feature Selection	Oral
6.	172	SP II	Zikang Wu and Sun Zhou	Epileptic Seizure Detection by Transfer Learning Considering Ictal-like Non-ictal Signals in Electroencephalogram	Oral
7.	183	SP II	Roberto Tornero, Lorenzo Fácila, Vicente Bertomeu-González, Roberto Zangróniz, Raúl Alcaraz and José J. Rieta	Is Short-Term Heart Rate Variability Good Enough to Predict Vascular Events in Hypertensive Patients?	Oral
8.	187	SP II	Marek Piorecky and Stepanka Padevetova	Microstates as a tool for identifying dreaming in a sleep EEG	Oral
9.	195	SP II	Radu Matei and Daniela Matei	Frequency Analysis of EEG Signals Using Band Energy Distribution	Oral

Medicine & Informatics I - MI I THURSDAY, 18 November, 14:00 – 16:00, Room II					
1.	86	MI I	Roxana Mihaela Barbu and Cristina Maria Gavrilescu	SARS-CoV-2 Influence on Pregnant Women with Cardiovascular Diseases	Oral
2.	135	MI I	Vlad Veringa, Razvan Tudor, Oana Viola Badulescu, Wilhelm Friedl, Valentin Radu, Adrian Bodescu, Gheorghe Sofron and Paul-Dan Sirbu	Modular rotating-hinge prosthesis in severe hemophilic valgus knee osteoarthritis. Case presentation	Poster
3.	90	MI I	Roxana Mihaela Barbu and Cristina Maria Gavrilescu	Influence of SARS-CoV-2 Infection on the Renin Angiotensin System	Oral
4.	100	MI I	Ana Balan, Monica Dugaesescu, Ioana Bejan, Oana Brinduse, Corina Ferdoschi, Simona Bonciu, Diana Iacob and Elena Poenaru	Lung Cancer Variants in Romanian population – a Genome-Wide Association Study	Oral
5.	106	MI I	Petru Ciobanu, Norin Forna, Andrian Panuta, Alexandru Covaciu, Victor Niculescu, Bogdan Puha and Paul-Dan Sirbu	The opportunity of using platelet concentrates as an adjuvant tool for in-hospital management of bone defects	Poster

6.	115	MI I	Ștefan-Dragoș Tîrnovanu, Liliana Savin, Norin Forna, Daniel Scolobiuc, Iustin Antonescu, Mihnea-Theodor Sîrbu and Paul-Dan Sîrbu	Custom-Made Cutting Blocks for Total Knee Arthroplasty: two case reports and preliminary results	Oral
7.	131	MI I	Stefanita Arcana, Liliana Savin, Daniel Scolobiuc, Norin Forna, Mihnea-Theodor Sirbu, Iustin Antonescu and Paul-Dan Sirbu	Combined advantages of the mobile bearing design and cementless fixation technique for total knee arthroplasty	Oral

Medicine & Informatics II - MI II **FRIDAY, 19 November, 11:15 – 13:15, Room III**					
1.	89	MI II	Ramona Gabriela Ursu, Diana Costin, Costin Dămian and Luminița Smaranda Iancu	Follow-up of women treated with LLETZ using two sensitive molecular assays	Oral
2.	184	MI II	Alexandru Filip, Mihaela Pertea, Dan Cristian Moraru, Bogdan Huzum, Claudiu Carp and Bogdan Veliceasa	Mechanical Testing Following the Application of Polymers on Different Types of Screws Used to Fix Osteoporotic Bone	Poster
3.	197	MI II	Gabriel Statescu, Marius Constantin Moraru, Dragos Munteanu, Dragos Valentin Crauciuc, Claudia Cristina Tarniceriu, Dragos Andrei Chiran, Cristinel Ionel Stan and Alin Horatiu Nedelcu	Synthetic Mesh Used in Open Incisional Hernia Repair Following Initial Abdominal Surgery	Poster
4.	198	MI II	Gabriel Statescu, Dragos Valentin Crauciuc, Alin Horatiu Nedelcu, Marius Constantin Moraru, Cristina Luca, Dragos Andrei Chiran, Cristinel Ionel Stan and Dragos Munteanu	Cephalic Pancreatoduodenectomy (CPD) Performed for Pancreatic Head Adenocarcinoma in a 72 Year-Old Patient - Case Presentation	Poster
5.	200	MI II	Dan Cristian Moraru, Alexandru Filip, Bogdan Huzum, Claudiu Carp and Bogdan Veliceasa	Negative pressure wound therapy (NPWT) - a device used successfully in the management of wounds with various etiologies	Oral
6.	215	MI II	Angela Tecuceanu, Teodor Stamate, Dan Cristian Moraru, Costel Dobre, Ilan Marcovici, Teodor Popa, Irina-Mihaela Jemnoschi Hreniuc, Laura-Iulia Bozomitu, Ecaterina Samoila, Ioana Munteanu and Camelia Tamas	The particularities of using enzymatic debridement therapy in deep burns treatment according to functional regions	Oral
7.	216	MI II	Irina-Mihaela Hreniuc Jemnoschi, Cristinel Stan, Nona Garlescu, Dan Cristian Moraru, Marius-Constantin Moraru, Gabriel Statescu, Cristina Luca, Cristina Stanescu, Angela Tecuceanu, Laura-Iulia Bozomitu and Camelia Tamas	Digital dermoscopy technology in precise early melanoma detection-prognosis and new treatment options	Oral

8.	228	MI II	Florina D. Cojocaru, Gianina Dodi, Aurelian Rotaru, Bogdan Istrate, Stefan Lupescu, Elena Rezus	Composite beads based on alginate, guar gum and calcium phosphates as bone substitues for osteoporotic fracture	Poster
9.	229	MI II	Ioannis Gardikiotis, Florina D. Cojocaru, Anca Diaconu, Adrian Pasat, George V. Iordache, George Suciu, Ciprian Rezus, Gianina Dodi	Electrocardiogram assessment in experimental animals for early detection of kidney disease through artificial intelligence	Poster
10.	36	MI II	Rodica Marinescu and Diana Popescu	Additively Manufactured Customized Implant for Severe Acetabular Bone Defect – A Case Report	Oral

Medicine & Informatics III, Dental Medicine - MI III FRIDAY, 19 November, 13:45 – 15:45, Room II					
1.	55	MI III	Georgeta Zegan, Elena Mihaela Carausu, Daniela Anistoroaei, Loredana Golovcencu, Alina Sodor-Botezatu and Cristina Gena Dascalu	Assessment of Dental Students' Knowledge about SarS-CoV-2 Infection through an Online Questionnaire	Oral
2.	70	MI III	Alina Sodor-Botezatu, Daniela Anistoroaei, Mihnea Iacob, Loredana Golovcencu and Georgeta Zegan	Acrylic Self-curring Resin Biocompatibility - an in Vitro Study	Oral
3.	72	MI III	Gabriela Mitea, Irina Mihaela Iancu, Nicoleta Mirela Blebea, Laura Adriana Bucur, Verginica Schroder, Victoria Badea, Ciprian Florin Badea, Cristina Nuca, Marius Daniel Radu and Valeriu Iancu	Cotinine and IL-6 - biomarkers for estimating pharmacological processes in various forms of periodontitis	Oral
4.	98	MI III	Irina Gradinaru, Bianca-Iulia Ciubotaru and Ana-Lavinia Vasiliu	A Morphological and Structural Study of Four Elastomeric Impression Materials Used in Dental Medicine	Oral
5.	117	MI III	Loredana Golovcencu, Daniela Anistoroaei, Iulia-Catalina Saveanu, Eduard-Radu Cernei, Alina Sodor-Botezatu and Georgeta Zegan	The Relationship between Third Molar Agenesis and Gender, Residence Area and Class of Malocclusion	Oral
6.	122	MI III	Daniela Anistoroaei, Loredana Golovcencu, Iulia Catalina Saveanu, Eduard Radu Cernei, Alina Sodor-Botezatu and Georgeta Zegan	Biomechanical Aspects of Orthodontic Treatment in Patients with Deep Overbite and Retroclined Upper Incisors	Oral
7.	137	MI III	Cristina Muntean, Catalina Neghina and Monica Vulcu	Automatic Detection of Apical Periodontitis using Running Maxima in Polar Coordinates	Poster

8.	203	MI III	Adina Oana Armencia, Dana Budala, Carina Balcos, Dragos Vicoveanu, Dragoș Virvescu, Elena Raluca Baciu and Roxana Ionela Vasluianu	The Stability of Dental Alloys in the Oral Environment	Oral
9.	218	MI III	Cristina Dascalu, Magda Ecaterina Antohe, Alina Sodor-Botezatu, Eduard Radu Cernei and Georgeta Zegan	Mathematical Models regarding the Influence of Anterior Cranial Base Measurements over the Teeth and the Occlusal Plan	Oral
10.	219	MI III	Cristina-Maria Stancioi, Radu Adrian Munteanu, Vlad Muresan, Iulia Clitan and Olimpia Bunta	System for Detecting the Position of a Tooth in Relation to a Fixed Reference	Poster

Medical Imaging and Image Processing I - MIIP I THURSDAY, 18 November, 11:45 – 13:45, Room III					
1.	2	MIIP I	Tudor Barbu, Mihaela Luca and Adrian Ciobanu	Anisotropic Diffusion-based Multiscale Medical Image Analysis Technique for COVID-19 Detection	Oral
2.	3	MIIP I	Min Zhao, Amirkhashayar Naderian and Saeid Sanei	Generative Adversarial Networks for Medical Image Super-resolution	Oral
3.	11	MIIP I	Manuel Pérez-Pelegrí, Josep Puig and Juan Sebastián Ruiz-Constantino	Acute infarct volume prediction based on CT perfusion metrics derived from an automated software package using machine learning models	Oral
4.	26	MIIP I	Baidaa Rashed and Nirvana Popescu	Machine Learning Techniques for Medical Image Processing	Oral
5.	34	MIIP I	Corneliu Florea and Constantin Vertan	Skin Lesion Recognition Using Randomly Regularized Convolutional Networks	Oral
6.	40	MIIP I	Adrian Aiordăchioae	An Investigation of Automatic Food Logging for Health Applications Based on Video Camera Glasses	Poster
7.	50	MIIP I	Savin Bogdan Cristian and Hnatiuc Mihaela	Methods of Health Improving Using Leaf Image Processing	Poster
8.	64	MIIP I	Lavinia Ferariu and Catalin-Marian Hardulea	COVID-19 Diagnosis Using CNN-Based Classification of Chest X-Ray Images	Oral

Medical Imaging and Image Processing II - MIIP II FRIDAY, 19 November, 13:45 – 15:45, Room IV					
1.	81	MIIP II	Ioan Păvăloi, Anca Ignat, Luminița-Camelia Lazăr and Cristina-Diana Niță	Palmprint recognition with fixed number of SURF keypoints	Oral
2.	128	MIIP II	Mihai Boeru, Andrei Racoviteanu and Corneliu Florea	Facial Expressions Recognition by Structuring the Embeddings Space	Oral
3.	130	MIIP II	Brigitte Schweisthal and Mihaela Lascu	Multiple Convolutional Neural Networks for Diabetic Retinopathy Classification	Oral

4.	134	MIIP II	Adrian Ciobanu, Mihaela Luca, Tudor Barbu, Vasile Drug, Andrei Olteanu and Radu Vulpoi	Experimental Deep Learning Object Detection in Real-time Colonoscopies	Oral
5.	199	MIIP II	Rai Sachindra Prasad and Vikas Prasad	Template-based Identification of Non-malignant Skin lesions to Minimize Biopsy: Experiments on Hundred Images from ISIC Archive	Oral
6.	212	MIIP II	Silviu Ioan Bejinariu, Ramona Luca, Ilie Onu, Gladiola Petroiu, Hariton Costin	Image Processing for the Rehabilitation Assessment of Locomotion Injuries and Post Stroke Disabilities	Oral
7.	223	MIIP II	Petronela Bonteanu, Radu Gabriel Bozomitu, Arcadie Cracan and Gabriel Bonteanu	A New Pupil Detection Algorithm Based on Multiple Angular Integral Projection Functions	Oral
8.	44	MIIP II	Jennifer Jin, Myeong Ho Song, Soo Dong Kim and Daniel Jin	Mask R-CNN Models to Purify Medical Images of Training Sets	Oral

Telemedicine, e/p/m-health - TM FRIDAY, 19 November, 9:00-11:00, Room IV					
1.	193	TM	Danna Gabriel-Cheng, Christopher Tafur-Morales and Michael Cabanillas-Carbonell	Mobile app to make better the obesity prevention process in adolescents	Oral
2.	18	TM	Anca Colibaba, Irina Gheorghiu, Doina Azoicai, Mioara Matei, Ovidiu Ursa, Claudia Elena Dinu and Mihaela Vatavu	A New Step in Detecting and Preventing Hereditary Cancer: the Hope Project and Mobile Application	Oral
3.	51	TM	Alice-Lavinia Chiru, Imad Alex Awada and Adina Magda Florea	A support process of telemedicine applications that integrates a chatbot	Poster
4.	52	TM	Paul Tota and Mircea-Florin Vaida	Modular telepresence robot for distance medical education	Oral
5.	93	TM	Mario Formisano, Giuliana Faiella, Maria Erinna Vitullo, Anna Dolcini and Fabrizio Clemente	Quality management in design telemedicine service for children in home mechanical ventilation	Oral
6.	114	TM	Marilena Ianculescu, Veronica Gavrila, Cristian Petrache and Cristian Țîrlea	Improving the elderly's fall management through inovative personalized remote monitoring solution	Oral
7.	123	TM	Elena Paraschiv, Marilena Ianculescu, Ovidiu Bica and Alexandru Sipica	Underpinning improved outcomes through preventative patient care models based on remote monitoring and AI	Poster
8.	160	TM	Elena-Anca Paraschiv, Eleonora Tudora, Eugenia Tirziu and Adriana Alexandru	IoT & Cloud Computing-based Remote Healthcare Monitoring System for an Elderly-Centered Care	Oral
9.	214	TM	David Lourenço and Octavian Postolache	IoT Health Status Monitoring System For Elderly People	Oral
10.	220	TM	Virginia Sandulescu, Sorin Puscoci, Sorin Soviany, Minodora Dumitrache, Oana Oltean and Cristian Mihit	A Mobile App for ECG Monitoring Integrated in a Complex Home Care Platform	Oral

			Biomaterials and Biotechnologies, BB I FRIDAY, 19 November, 9:00-11:00, Room II		
1.	7	BB I	Georgiana-Diana Dumitriu Gabur, Carmen Teodosiu, Valeriu V. Cotea, Iulian Gabur and Ioan Moraru	Physicochemical and Sensory Characteristics of Red Wines	Poster
2.	21	BB I	Delia Bianca Deaconescu and Simona Miclaus	Assesing Power Losses in Magnetic-Dielectric Tissues Exposed to Microwaves: Commercial Computational Software Capabilities and Limits	Oral
3.	22	BB I	Maria Bercea and Ioana-Alexandra Plugariu	Macromolecular crowding in solutions of bovine serum albumin and neutral polymers	Oral
4.	49	BB I	Valeriu Iancu, Irina Mihaela Iancu, Florentina Nicoleta Roncea, Horațiu Mireșan, Radu George Cazacincu, Verginica Schroder, Nicoleta Mirela Blebea, Gabriela Mitea	Pharmaco-technical profile of Lythri herba freeze-dried extract based on the SeDeM methodology	Oral
5.	53	BB I	Alina Roxana Lucaci, Dumitru Bulgariu and Laura Bulgariu	Green synthesis of gold nanoparticles using marine red algae biomass	Oral
6.	182	BB I	Andrei Lobiuc, Roxana Gheorghita, Mihai Dimian, Ionut Pavel and Mihai Covasa	Comparison of automated pipelines for nanopore 16S sequencing data analysis of human gut microbiota samples	Poster
7.	66	BB I	Alina Elena Sandu, Aurica Chiriac, Alina Gabriela Rusu, Alexandru Mihail Serban, Loredana Elena Niță and Elvira Gille	New polymeric particles loaded with sea buckthorn essential oil	Oral
8.	94	BB I	Lacramioara Oprica, Roxana Strungaru-Jijie, Marius-Nicusor Grigore, Maria Balasoiu, Dorina Creanga and Gabrela VochiŢa	Effect of AgNPs biologically and chemically synthesized on Phanerochaete chrysosporium antioxidant enzymes activities	Oral

			Biomaterials and Biotechnologies, BB II FRIDAY, 19 November, 11:15-13:30, Room IV		
1.	107	BB II	Nicoleta Mirela Blebea, Virginia Schroder, Manuela Rossemary Apetroaei, Valeriu Iancu, Gabriela Mitea, Miruna Apetroaei and Simona Negreș	Development membranes with chitosan delivery systems for cannabidiol	Oral
2.	109	BB II	Maria Bercea, Ioana-Alexandra Plugariu, Loredana Elena Nita, Simona Morariu and Robert Vasile Gradinaru	On the interactions between bovine serum albumin and reduced glutathione in solution	Oral

3.	129	BB II	Luiza Madalina Gradinaru, Stelian Vlad, Mihaela Barbalata-Mandru, Mioara Drobota, Maria Spiridon, Magdalena Aflori, Maria Butnaru, Ionel Alexa and Romeo Ciobanu	Polyurethane Composites Based on Iron Oxide Nanoparticles as Precursor in MRI	Oral
4.	133	BB II	Víctor Pablo Galván Chacón, David Patrocinio, María Duarte-León, J. Blas Pagador Carrasco and Francisco Miguel Sánchez-Margallo	3D printed vs. commercial polypropylene surgical meshes: a comparative analysis of tensile strength	Oral
5.	136	BB II	David Patrocinio, Jorge Lourreiro, Víctor Pablo Galván Chacón, Maximo P. Ribeiro, María Duarte, J. Blas Pagador, Paul Coutinho and Francisco M Sánchez	Thermal characterizacion of konjac/gellam gum hydrogels for cardiac patch	Oral
6.	149	BB II	Jorge Loureiro, Sónia P. Miguel, Víctor P. Galván-Chacón, David Patrocinio, Francisco M. Sánchez-Margallo, J. Blas Pagador, Maximiano P. Ribeiro and Paula Coutinho	Swelling analysis of thermal and chemical crosslinked konjac glucomannan/gellan gum cardiac patch	Oral
7.	152	BB II	Magdalena Aflori, Maria Butnaru, Florica Doroftei, Mioara Drobota, Mihaela Barbalata-Mandru, Maria Spiridon, Stelian Vlad, Luiza Madalina Gradinaru and Stefan Ursache	Antimicrobial Proprieties of Polyimidic Film Obtained by Two-Step Treatments	Oral
8.	154	BB II	Verginica Schroder, Manuela Rossemary Apetroaei, Mirela Adina Anton, Irina Mihaela Iancu and Ileana Rau	Evaluation of Manganese Retention in the Crustacean Tissue and its Implications for Chitin product and applications	Oral

Biomaterials and Biotechnologies, BB III **FRIDAY, 19 November, 13:45-15:45, Room III**					
1.	155	BB III	Cristina-Gabriela Grigoraş, Andrei-Ionuţ Simion, Lidia Favier and Lucian Gavrilă	Effective Removal of Biebrich Scarlet Dye from Aqueous Solutions by Adsorption on Cherry Stones Powder Coated with Chitosan	Poster
2.	180	BB III	Adina Oana Armencia, Roxana Ionela Vasluianu, Dana Budala, Dragos Vicoveanu, Dragoş Virvescu, Elena Raluca Baciu and Carina Balcos	Tribological Comparative Study on Two Composite Materials for Restorative Dental Applications	Oral
3.	65	BB III	Alexandra Croitoriu, Loredana Elena Niţă, Alina Gabriela Rusu, Andrei Cimponeriu and Aurica Chiriac	Supramolecular gels based on amino acids	Oral
4.	95	BB III	Lacramioara Oprica, Marius-Nicusor Grigore, Iulia Bara, Diana Costin and Gabriela Vochita	Salinity and SiO2 impact on growth and biochemical responses of basil (Ocimum basilicum L.) seedlings	Oral

5.	186	BB III	Iuliana Soldanescu and Cezara Bucataru	Electrophysiological characterization of transport processes through protein nanopores	Oral
6.	191	BB III	Vaclav Ort and Denisa Albrechtova	Exposure of tissue mimicking materials based on conductive polyurethane to vacuum during pot time significantly reduces their electric impedance	Oral
7.	196	BB III	Vlad Constantin Ursachi, Cosmin Teodor Mihai, Andrei Nastuta, Cristina Daniela Dimitriu, Liliana Verestiuc and Vera Balan	In Vitro Evaluation of Paclitaxel Loaded Magnetic Nanoparticles for Breast Cancer Therapy	Oral
8.	17	BB III	Alexandru Tulica, Corneliu Druga and Ionel Serban	Printing of dental works from Cobalt-Chrome metal powder and composite material	Oral
9.	226	BB III	Roxana Donea, Isabella Cobzariu, Maria Butnaru and Liliana Verestiuc	Methacrylated collagen/chitosan - based hydrogels as scaffolds for soft tissue engineering	Oral

Biomechanics, BM THURSDAY, 18 November, 14:00-16:00, Room IV					
1.	27	BM	Diana Popescu, Rodica Marinescu and Stefan Octavian Sandache	Upper Limbs Orthoses Production in 3D Printing Points-of-Care	Oral
2.	61	BM	Corneliu-Nicolae Druga, Barbu Braun, Ionel Serban and Leonard Mitu	New Solution for Low Mass Hip Prostheses using Carbon Fiber	Poster
3.	132	BM	Oana Andreea Chiriac, Doina Bucur, Mazen Elfarra and Yaren Şachir	Analysis and evaluation of hip disarticulation prosthesis based on computerized metrics. Case study	Oral
4.	202	BM	Mirela Apostoaie, Mihaela Ioana Baritz and Angela Repanovici	New Paradigms Used in the Study of Behavior in Condition of Postural Discomfort / Comfort	Oral
5.	170	BM	Robert LeMoyne and Timothy Mastroianni	Application of a Multilayer Perceptron Neural Network for Differentiation of the Influence of Ankle Stretch Duration for Hemiplegic Affected Ankle Dorsiflexion Quantified by a Smartphone Functioning as a Wearable and Wireless Gyroscope Platform	Oral
6.	181	BM	Robert LeMoyne and Timothy Mastroianni	Machine Learning Classification of Hemiplegic Dorsiflexion Based on Knee Orientation	Oral
7.	125	BM	Robert LeMoyne and Timothy Mastroianni	Conformal Wearable Sensors for Distinguishing Circumduction for Hemiplegic Gait with Machine Learning	Oral

SESSIONS	
Assistive technologies for people with disabilities	**AT**
Biomaterials and Biotechnologies	**BB**
Biomechanics	**BM**
Biomedical Signal Processing	**SP**
Decision support systems, Artificial Intelligence, Bioinformatics	**DSS-AI**
Environmental Protection and Health	**EPH**
Medical devices, Instrumentation, Robotics	**MD**
Medical imaging and Image processing	**MIIP**
Medicine and Informatics	**MI**
Telemedicine, e/m/p-Health, Wearable systems II	**TM**