

2022 E-Health and Bioengineering Conference (EHB 2022)

**Iasi, Romania
17-18 November 2022**

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IEEE E-HEALTH AND BIOENGINEERING CONFERENCE - EHB 2022
10-th edition, Iași, Romania, November 17-19, 2022

PROGRAM OF PAPERS PRESENTATIONS

Assistive Technologies for People with Disabilities
Advances in Motor-recovery Neurotechnology by means of Brain-Computer Interfaces,
Functional Electrical Stimulation and Exoskeletons

THURSDAY, 17 NOVEMBER 2022

THURSDAY 17 November		Section: AT, SS 3	Assistive Technologies for People with Disabilities; Advances in Motor-recovery Neurotechnology by means of Brain-Computer Interfaces, Functional Electrical Stimulation and Exoskeletons.	
11:15 – 13:15 Room I - Eminescu		Moderators: Marian-Silviu POBORONIUC, Dănuț-Constantin IRIMIA		
PG	ID	Section	Participant & Title & Authors	Presentation
1	44	AT	Cristian ALIONTE, University Politehnica of Bucharest, Romania An educational device dedicated to people with hearing impairment Mircea Nistor, Maria-Petruța Blaga and Cristian Gabriel Alionte	Poster ONLINE
5	64	AT	Irina GHEORGHIU, Albert Ludwigs University Freiburg, Germany The Voice Project: habilitating hearing-impaired children to recover hearing and lead a normal life Stefan Colibaba, Irina Gheorghiu, Anais Colibaba, Ovidiu Ursa, Carmen Antonită and Ramona Cîrșmari	Oral ONLINE
9	79	AT	Ionuț MOLDOVAN, Alba Iulia County Hospital, Romania Virtual Rehabilitation Program Using Kinect and Leap Motion Sensor Enhances Upper Limb Function in Stroke Patients Ionut Moldovan, Adina Simionescu, Dorian Padurariu and Raluca Moldovan	Oral ONSITE
13	82	AT	Radu IONAȘCU, Technical University "Gheorghe Asachi" of Iasi, Romania Hybrid FES & Mechatronic Hand Control Method for Upper Limb Rehabilitation Systems Radu Ionascu, Marian-Silviu Poboroniuc, Andrei-Iulian Roman, Alexandru Mitocar, Teodora Piseru, Emanuel-Andrei Piseru and Dănuț-Constantin Irimia	Oral ONSITE
17	102	AT	Andrei-Iulian ROMAN, Technical University "Gheorghe Asachi" of Iasi, Romania Clinical Tests of a New Device Aiming to Assess and Rehabilitate the Hand in Stroke People Andrei-Iulian Roman, Marian-Silviu Poboroniuc, Danut-Constantin Irimia, Teodora Piseru and Emanuel-Andrei Piseru	Oral ONSITE
21	113	AT	Emanuel Andrei PISERU, Technical University "Gheorghe Asachi" of Iasi, Romania Clinical Evaluation of a New Mechatronic Glove for Hand Rehabilitation Emanuel Andrei Piseru, Teodora Piseru, Marian Silviu Poboroniuc, Radu Ionascu, Andrei Iulian Roman, Bogdan Ignat and Cristina Grosu	Oral ONSITE
25	147	AT	Ramona LUCA, Institute of Computer Science, Romanian Academy Iași Branch, Romania Medical Rehabilitation Assessment using Gait Analysis in Video Sequences Silviu Ioan Bejinariu, Ramona Luca, Hariton Costin, Florin Rotaru and Ilie Onu	Oral ONLINE
29	174	AT	José Miguel Costa PEREIRA, ESTS/IPS, Portugal Mixed Reality and IoT for Physical Rehabilitation João Neves, Octavian Postolache, João Monge and José Pereira	Oral ONLINE
35	175	AT	Nicolae-Alexandru BOTEZATU, Technical University "Gheorghe Asachi" of Iasi, Romania On the Design of a Modular Wearable Solution for Assistive Technologies Nicolae-Alexandru Botezatu, Robert Gabriel Lupu and Simona Caraiman	Oral ONLINE

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Decision Support Systems, Artificial Intelligence I - DSS-AI I

THURSDAY, 17 NOVEMBER 2022

THURSDAY 17 November	Section: DSS-AI I	Decision Support Systems, Artificial Intelligence I
11:15 – 13:15 Room II - Creangă	Moderators: Diana LUNGEANU, Ruxandra STOEAN	

PG	ID	Section	Participant & Title & Authors	Presentatio n
39	7	DSS-AI I	Alina MUNTEANU, Institutul de Antropologie Francisc Rainer al Academiei Romane, Romania Artificial Intelligence Applied to Counselling Programmes for Optimizing Self-control in Teens. Case Study Alina Munteanu, Teodor Radoi, Constantin Balaceanu Stolnic, Cristina Glavce, Adriana Borosanu and Ciprian Fartusnic	Oral ONLINE
43	9	DSS-AI I	Yasuhisa OMURA, Kansai University, Japan Possible Understanding and Model-Based Prediction of Time Evolution of Number of Infected People in COVID-19 Pandemic in Japan Yasuhisa Omura	Oral ONLINE
47	10	DSS-AI I	Cătălina BURLACU, Dunarea de Jos University of Galati, Romania Artificial Neural Networks screening for JWH synthetic cannabinoids: a comparative analysis regarding their specificity and accuracy Catalina Mercedes Burlacu, Steluta Gosav, Bianca Andreea Burlacu and Mirela Praisler	Oral ONLINE
51	18	DSS-AI I	Tianle ZHANG, University of Electronic Science and Technology of China, China Phase Detection Methods for Alzheimer's disease Based on Improved Convolutional Neural Network Fine-tuning Tianle Zhang, Rui Yin, Zhan Qu and Zhuo Chen	Oral ONLINE
55	49	DSS-AI I	Lidia BĂJENARU, National Institute for Research and Development in Informatics Bucharest, Romania Improvement of the Physical Activity from the Perspectives of Older Adults: Case Study Lidia Bajenaru, Ion Alexandru Marinescu, Mihaela Tomescu, Ciprian Dobre and Gabriel-Ioan Prada	Oral ONLINE
59	66	DSS-AI I	Emanuele TAURO, Politecnico di Milano, Italy A Novel Data Science Approach to Personas' Creation to Study Willingness to Receive Vaccination in the General Population Emanuele Tauro, Alessandra Gorini and Enrico Caiani	Oral ONLINE
63	73	DSS-AI I	Benedetta SALVATORI, National Research Council (CNR), Institute of Neuroscience, Italia Empirical index for easy assessment of pancreatic beta-cell glucose sensitivity during pregnancy: A machine learning approach Benedetta Salvatori, Tina Linder, Daniel Eppel, Micaela Morettini, Christian Göbl and Andrea Tura	Oral ONLINE
67	86	DSS-AI I	Lucia DICAN, Universitatea Tehnica din Cluj-Napoca, Romania KIR Analyze in context of kidney transplantation Gabriel Cristian Dragomir-Loga and Lucia Dican	Oral ONLINE
71	203	DSS-AI I	Emanuela MOTRESCU, Universitatea Babes-Bolyai Cluj, Romania, Romania Attention Predictions Related to Cinematic Montage Using Biometric Markers with application in ADHD Disorder Emanuela Motrescu and Oana Geman	Poster ONLINE

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Medical Devices, Instrumentation, Measurements I
Design of Devices and Methods for Clinical Practice

THURSDAY, 17 NOVEMBER 2022

THURSDAY 17 November	Section: MD I, SS 1	Medical Devices, Instrumentation, Measurements I; Design of Devices and Methods for Clinical Practice
11:15 – 13:15 Room III - White Salon	Moderators: Martin ROŽÁNEK, Petr KUDRNA	

PG	ID	Section	Participant & Title & Authors	Presentation
75	74	MD I	Natalia GUBCEAC, Technical University of Moldova, Republica Moldova Control Dynamics of the Generated Frohlich Photons by Biological System Natalia Gubceac, Nellu Ciobanu and Vasile Tronciu	Oral ONSITE
79	78	MD I	Ondrej SOJKA, VSB-Technical University of Ostrava, Czech Republic An Automatic Method for Physical Modelling of Medical Tissues: from Regional Segmentation to 3D Printing Ondrej Sojka, Martin Augustynek and Jan Kubicek	Oral ONLINE
83	97	MD I	Petr KUDRNA, Faculty of Biomedical Engineering, Czech Technical University in Prague, Czech Republic Educational pulse oximeter controlled by microprocessor Hana Šebestová, Šimon Walzel and Petr Kudrna	Oral ONSITE
87	183	MD I	Leos TEJKL, Dept. of Biomedical Technology, Czech Technical University in Prague, Kladno, Czech Republic, Czech Republic System for automatic pressure control as an alternative to the infusion pressure cuff Leos Tejkl, Michal Kucera, Petr Kudrna and Jakub Rafi	Oral ONSITE
91	205	MD I	Valerii TRUKHAN, Department of Biomedical Technology, Faculty of Biomedical Engineering, Czech Technical University in Prague, Czech Republic Effect of pressure reactivity index calculation settings on the range of the optimal cerebral perfusion pressure Valerii Trukhan, Lenka Horakova, Josef Skola and Martin Rozanek	Oral ONSITE
95	206	MD I	Gleb DONIN, Czech Technical University in Prague, Faculty of Biomedical Engineering, Czech Republic Corticosteroids in the early treatment of Covid-19: Feasibility study of the use of Czech administrative data in an real-world outcomes evaluation Gleb Donin and Aleš Tichopád	Oral ONSITE
99	207	MD I	Aleš TICHOPÁD, Department of Biomedical Technology, Faculty of Biomedical Engineering, Czech Technical University in Prague, Kladno, Czech Republic., Czech Republic Threats and opportunities associated with the implementation of Performance based Managed Entry Agreements in Slovakia Klara Gilikova, Petra Hospodkova and Ales Tichopad	Poster ONSITE
103	208	MD I	Aleš TICHOPÁD, Department of Biomedical Technology, Czech Technical University in Prague, Czech Republic Partially autonomous information system facilitating performance-based managed entry agreements in Slovakia Ales Tichopad	Oral ONSITE
107	230	MD I	Jan ŽIGMOND, Department of Biomedical Technology, Faculty of Biomedical Engineering, Czech Technical University in Prague, Nam. Sitna 3105, 272 01, Kladno, Czech Republic, Czech Republic Budget Impact Analysis of Anakinra (Kineret) in Treatment of Cryopyrin-Associated Periodic Syndromes in the Czech Republic Jan Žigmond, Aleš Tichopád	Poster ONSITE
111	231	MD I	Martin ROZANEK, Czech Technical University in Prague, Czech Republic Analysis of the Use of Imaging Methods in the Diagnosis of Implant Rupture Barbora Klíčová, Martin Rozanek and Joseef Barta	Poster ONSITE

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Environmental Protection and Health

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THURSDAY 17 November	Section: EPH	Environmental Protection and Health
11:15 – 13:15 Room IV - Caragiale	Moderators: Laura BULGARIU, Gabriela NACU	

PG	ID	Section	Participant & Title & Authors	Presentation
115	14	EPH	Vlad Petru LIVINT, UTI Iasi, Romania Retention of Hydrocortisone from Aqueous Solution by Adsorption on PET Fibers Vlad Livint, Andrei Eugen Bulgariu, Anca Mihaela Mocanu and Laura Bulgariu	Oral ONLINE
119	30	EPH	Cristina GHINEA, Stefan cel Mare University of Suceava, Romania Households waste composition and quantities: survey and direct measurement Cristina Ghinea, Ancuta Elena Prisacaru and Laura Carmen Apostol	Poster ONSITE
123	101	EPH	Bianca- Elena AZANFIRE, Department of Environmental Engineering and Management, "Cristofor Simionescu" Faculty of Chemical Engineering and Environmental Protection, Gheorghe Asachi Technical University of Iași, Iași, Romania, Romania Isotherm and Kinetic Modeling of Hg(II) Ions Adsorption on PET-clay Adsorbent Materials Bianca Azanfire, Codrut-Stefan Ciobanu, Dumitru Bulgariu and Laura Bulgariu	Oral ONLINE
127	153	EPH	Ionela Catalina VASILACHI, Department of Environmental Engineering and Management, "Cristofor Simionescu" Faculty of Chemical Engineering and Environmental Protection, "Gheorghe Asachi" Technical University of Iasi, 73 Prof. Mangeron Bd., 700050, Iasi, Romania, Romania Effects of Ni(II), Co(II), Cu(II), Zn(II) metal ions on the growth and development of alfalfa (Medicago sativa L.) in agricultural soil Ionela Catalina Vasilachi, Razvan Andrei Hutuliac, Maria Paiu, Mariana Minut, Petronela Cozma, Elena-Diana Comanita-Ungureanu and Maria Gavrilescu	Oral ONLINE
131	156	EPH	Yu-Tong SHAO, Department of Bioenvironmental Systems Engineering, National Taiwan University, Taiwan Sponge City as a Civil Engineering Solution to Climate Change for Urban Flood Resilience Yu-Tong Shao and Kevin Sheng-Kai Ma	Oral ONLINE
135	170	EPH	Marius Emanuel OBREJA, "Gheorghe Asachi" Technical University of Iasi, Romania Developing a versatile framework needed to identify pothole in asphalt using deep learning algorithms Marius-Emanuel Obreja and Dan-Marius Dobrea	Oral ONLINE
139	177	EPH	Maria PAIU, Department of Environmental Engineering and Management, "Cristofor Simionescu" Faculty of Chemical Engineering and Environmental Protection, "Gheorghe Asachi" Technical University of Iasi, 73 Prof. Mangeron Bd., 700050, Iasi, Romania, Romania Investigation of the Photocatalytic Degradation Efficiency of a Refractory Organic Pollutant using a Phytotoxicological Approach Maria Paiu, Lidia Favier, Raluca-Maria Hlihor and Maria Gavrilescu	Oral ONLINE
143	202	EPH	Alina-Alexandra CIOBANU, Gheorghe Asachi Technical University of Iași, Romania Optimization of Experimental Parameters for Co(II) Ions Biosorption onto Algae Biochars Alina-Alexandra Ciobanu, Amina Soudani, Leila Youcef and Laura Bulgariu	Oral ONLINE

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Medical Devices, Instrumentation, Measurements II

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THURSDAY 17 November	Section: MD II	Medical Devices, Instrumentation, Measurements II
15:00 – 17:00 Room I - Eminescu	Moderators: Radu CIORAP, Călin CORCIOVĂ	

PG	ID	Section	Participant & Title & Authors	Presentation
147	3	MD II	Guangwei MAO, Southeast University, China Circuit Design and Animal Experimental Study of Multi-Channel Microelectronic Nerve Bridge Stimulator for Spinal Cord Injury Guangwei Mao, Hao Su, Zhijun Zhou, Jianjun Zhang, Zhigong Wang and Xiaoying Lü	Poster ONLINE
151	38	MD II	Shanthala LAKSHMINARAYANA, University of Texas at Arlington, United States Portable Indoor Air Quality Measurement System Hyusim Park, Shanthala Laskhminarayana, Liem H. T. Nguyen, Chenyun Pan and Sungyong Jung	Poster ONLINE
155	41	MD II	Santa FUKUDA, Mie University, Japan Use-Dependent Inactivation of the Mouse Visual Cortex in Response to Microstimulation Train Santa Fukuda, Kou Yoshida, Tomohiro Nomoto, Tetsuya Yagi and Yuki Hayashida	Oral ONLINE
159	43	MD II	Petar VALCHANOV, Medical University of Varna, Bulgaria, Bulgaria High fidelity anthropomorphic 3D printed models – accuracy, precision and quality control Petar Valchanov and Stoyan Pavlov	Oral ONLINE
163	47	MD II	Andrei BOIKO, HTWG Konstanz, Germany Sleep respiration rate detection using an accelerometer sensor with special holder setup Andrei Boiko, Wilhelm Daniel Scherz, Maksym Gaiduk, Andrea Gentili, Massimo Conti, Simone Orcioni, Ralf Seepold and Natividad Martínez Madrid	Oral ONLINE
167	54	MD II	Melannie MENDOZA, Adamson University, Philippines HAND AID : Hand Orthotic Device with Strength Monitoring System Melannie Mendoza, Erin Job Alvaran and Monina Chan Bona	Oral ONLINE
171	55	MD II	Melannie MENDOZA, Adamson University, Philippines Non-Invasive Apparatus for Body Thermal Reading and Hemoglobin Count Aggregated with a Mobile App Melannie Mendoza, Joven Avila, Kwynett Bragado and Josemaria Rei Santos	Oral ONLINE

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Decision Support Systems, Artificial Intelligence II- DSS-AI II

THURSDAY, 17 NOVEMBER 2022

THURSDAY 17 November	Section: DSS-AI II	Decision Support Systems, Artificial Intelligence II
15:00 – 17:00 Room II - Creangă	Moderators: Daniela ZAHARIE, Cristina DASCĂLU	

PG	ID	Section	Participant & Title & Authors	Presentation
175	16	DSS-AI II	Maurice GERCZUK, University of Augsburg, Germany Personalised Deep Learning for Monitoring Depressed Mood from Speech Maurice Gerczuk, Andreas Triantafyllopoulos, Shahin Amiriparian, Alexander Kathan, Jonathan Bauer, Matthias Berking and Björn Schuller	Oral ONSITE
180	76	DSS-AI II	Ana BALAN, RomSoft, Romania PharmaLedger a Blockchain enabled Healthcare Platform Ana Balan, Sinica Alboaie and Alexandrina Rata	Oral ONSITE
186	93	DSS-AI II	Kamila LEPKOVA, Czech Technical University, Czech Republic Electrophysiological Biomarkers of Epileptic Tissue in Human Brain Epilepsy Kamila Lepkova, Petr Nejedly, Vladimir Sladky, Filip Mivalt, Pavel Krsek, Martin Kudr, Matyas Ebel, Petr Marusic, David Krysl, Adam Kalina, Radek Janca, Vaclav Kremen and Gregory Worrell	Oral ONLINE
190	94	DSS-AI II	George MERTOIU, Doctoral School of Economics and Business Administration, "Alexandru Ion Cuza" University of Iași, Romania Healthcare under siege: the need to improve cybersecurity in the near future George Mertoiu and Gabriela Mesnita	Oral ONSITE
194	96	DSS-AI II	Jano RAMOS-DIAZ, Universidad Privada del Norte, Perú A Content Analysis of Teachers Reaction Towards the Aggressors: Some Preliminary Results Jano Ramos-Diaz, Claudia Guevara-Cordero, Leonardo Diaz-Cayao, Victor Resurreccion-Perez and Isabel Neyra-Lopez	Oral ONLINE
198	104	DSS-AI II	Iolanda Valentina POPA, GreenSoft Ltd., Iași, Romania and Faculty of Medicine, "Grigore T. Popa" University of Medicine and Pharmacy, Iași, Romania, Romania Integrated extended SIR-type epidemiological modeling platform for Covid-19 Adrian Brezulianu, Iolanda Popa, Oana Geman, Iuliana Chiuchisan and Carmen Nastase	Poster ONLINE
203	105	DSS-AI II	Iolanda Valentina POPA, GreenSoft Ltd., Iași, Romania and Faculty of Medicine, "Grigore T. Popa" University of Medicine and Pharmacy, Iași, Romania, Romania GreenChain: a Solana Blockchain-based management platform for academic/comercial areas Adrian Brezulianu, Iolanda Popa, Oana Geman, Iuliana Chiuchisan and Carmen Nastase	Poster ONLINE
208	115	DSS-AI II	Bogdan AMAN, Romanian Academy, Iasi Branch, Institute of Computer Science, Romania Modelling the mutually exclusive oncogenic mechanism Bogdan Aman and Gabriel Ciobanu	Oral ONLINE
212	226	DSS-AI II	Daniela GIFU, Academia Romana - filiala Iasi, Romania Language Identification Models for Short Medical Texts Daniela Gifu and Radu Ciora	Oral ONLINE

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Medical Imaging and Image Processing I

THURSDAY, 17 NOVEMBER 2022

THURSDAY 17 November	Section: MIIP I	Medical Imaging and Image Processing I
15:00 – 17:00 Room III - White Salon	Moderators: Anca IGNAT, Ruxandra ȚAPU	

PG	ID	Section	Participant & Title & Authors	Presentation
216	2	MIIP I	Tudor BARBU, Institute of Computer Science of the Romanian Academy - Iasi Branch, Romania Nonlinear Hyperbolic PDE-based Filter for Mixed Poisson-Gaussian Noise Removal from X-ray Images Tudor Barbu	Oral ONSITE
220	13	MIIP I	Tihomir GEORGIEV, Medical University of Varna, Bulgaria Contrast Enhanced Radiography with a Printed Model Tihomir Georgiev, Nikolay Dukov, Todor Todorov and Kristina Bliznakova	Oral ONLINE
224	21	MIIP I	Iulia-Nela ANGHELACHE NASTASE, Dunarea de Jos University of Galati, Romania Improved classification of benign and malignant breast lesions based on contrast manipulation and gradient map Iulia-Nela Anghelache Nastase, Simona Moldovanu and Luminita Moraru	Oral ONSITE
228	22	MIIP I	Felicia-Anișoara MICHIS DAMIAN, Dunarea de Jos University of Galati, Romania Melanoma Detection using a Random Forest Algorithm Felicia Anisoara Damian, Simona Moldovanu and Luminita Moraru	Oral ONSITE
232	35	MIIP I	Andreea - Monica DINCĂ (LĂZĂRESCU), The Modelling & Simulation Laboratory, University Dunarea de Jos of Galati, Romania Discret wavelet fingerprint features for ANNs classification method Andreea Monica Dinca Lazarescu, Simona Moldovanu and Luminita Moraru	Oral ONSITE
236	50	MIIP I	Alina Elena SULTANA, Politehnica University of Bucharest, Romania Infantile Hemangiomas Segmentation using U-Net and SegNet Architectures Models Alina Elena Sultana, Maria Oniga, Corina Nitu, Andrei Petrescu and Cristina-Nicoleta Sandu	Oral ONLINE
240	52	MIIP I	Lenuța PANĂ, Dunarea de Jos University of Galati, Romania 3D Brain Tumor Volume Reconstruction and Quantification using MRI Multi-modalities Brain Images Lenuta Pana, Simona Moldovanu and Luminita Moraru	Oral ONSITE
244	106	MIIP I	Anca IGNAT, University "Alexandru Ioan Cuza" of Iasi, Romania Dynamic Selection Classification for Chest X-Ray Images Anca Ignat	Poster ONSITE
248	118	MIIP I	Ștefana DUȚĂ, Politehnica University of Bucharest, Romania Volumetric Segmentation of Brain Tumors Using Neural Networks Ștefana Duță and Alina Elena Sultana	Oral ONSITE

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Biomedical Signal Processing I

THURSDAY, 17 NOVEMBER 2022

THURSDAY 17 November	Section: SP I	Biomedical Signal Processing I
15:00 – 17:00 Room IV - Caragiale	Moderators: José RIETA, Dragoș ȚARĂLUNGĂ	

PG	ID	Section	Participant & Title & Authors	Presentation
252	24	SP I	Evdochim LUCIAN, Polytechnic University of Bucharest, Romania Dicrotic Notch Detection in Various Photoplethysmography Signals Morphologies Lucian Evdochim, Dragos Dobrescu, Lidia Dobrescu, Alexandru Florin Săvulescu and Stela Halichidis	Oral ONLINE
256	39	SP I	Shinjiro YAMAMASU, Mie University, Japan Epileptic Electrocardiogram Signal Detections with Patient-Specific Quantized Convolution Neural Network Models on the Edge TPU device Shinjiro Yamamasu and Yuki Hayashida	Oral ONLINE
260	46	SP I	Lavinia FERARIU, Gheorghe Asachi Technical University of Iasi, Romania Detection of Epileptic Seizures With Autoencoders Working With Multiple EEG Frames Lavinia Ferariu and Angela Mihalachi	Oral ONLINE
264	58	SP I	Yuwei ZHANG, Southeast University, China Fetal Heart Rate Extraction from Abdominal Electrocardiography Recordings Based on Wavelet Transform and Adaptive Threshold Algorithm Yuwei Zhang, Aihua Gu, Zhijun Xiao, Zhipeng Cai, Chenxi Yang, Jianqing Li and Chengyu Liu	Oral ONLINE
268	67	SP I	Jessica CENTRACCHIO, Department of Electrical Engineering and Information Technologies, University of Naples Federico II, Italy Heartbeats Localization in Forcecardiography Signals Via Template Matching Jessica Centracchio and Vincenzo Muto	Oral ONLINE
272	84	SP I	Hariton COSTIN, Institute of Computer Science, Romanian Academy, Romania Analysis of the Detection of Ventricular Fibrillation in its First 3 Seconds using Different Features and Classifiers Monica Fira, Hariton Costin and Liviu Goras	Oral ONLINE
276	85	SP I	Sergio GONZALEZ VAZQUEZ, Inventec Corporation, Taiwan Interpretable estimation of the risk of heart failure hospitalization from a 30-second electrocardiogram Sergio Gonzalez, Wan-Ting Hsieh, Davide Burba, Trista Pei-Chun Chen, Chun-Li Wang, Victor Chien-Chia Wu and Shang-Hung Chang	Oral ONLINE
280	100	SP I	Teresa HENRIQUES, Centre for Health Technology and Services Research, CINTESIS, Faculty of Medicine, University of Porto, Porto, Portugal and Department of Community Medicine, Information and Health Decision Sciences, MEDCIDS, Faculty of Medicine, University of Porto, Porto, Portugal Compression of Different Time Series Representations in Asphyxia Detection Bárbara Silva, Maria Ribeiro and Teresa Henriques	Poster ONLINE
285	103	SP I	Teresa HENRIQUES, Centre for Health Technology and Services Research, CINTESIS, Faculty of Medicine, University of Porto, Porto, Portugal and Department of Community Medicine, Information and Health Decision Sciences, MEDCIDS, Faculty of Medicine, University of Porto, Porto, Portugal Entropy analysis of total respiratory time series for sepsis detection Hugo Sousa, Maria Ribeiro and Teresa Henriques	Poster ONLINE
291	225	SP I	Alfonso Maria PONSIGLIONE, Department of Electrical Engineering and Information Technology, University of Naples Federico II, Italy A sensitivity analysis of Symbolic Dynamics indices for fetal heart rate monitoring Alfonso Maria Ponsiglione, Leandro Donisi, Sarah Adamo, Annarita Tedesco, Carlo Ricciardi, Maria Romano and Francesco Amato	Oral ONLINE

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Biomedical Signal Processing II

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THURSDAY 17 November	Section: SP II	Biomedical Signal Processing II
17:00 – 19:00 Room I - Eminescu	Moderators: Saeid SANEI, Monica DOBREA	

PG	ID	Section	Participant & Title & Authors	Presentation
295	89	SP II	Ruxandra TAPU, University Politehnica of Bucharest, Romania Automatic alignment of human generated transcripts to speech signals Bogdan Mocanu and Ruxandra Tapu	Oral ONLINE
299	109	SP II	Pedro MORAIS, 2Ai - Polytechnic Institute of Cávado and Ave, Barcelos, Portugal ECG Classification with Deep Learning Models – A Comparative Study Luís C. N. Barbosa, António Real, António H. J. Moreira, Vítor Carvalho, João L. Vilaça and Pedro Morais	Oral ONLINE
303	110	SP II	Alina Elena SULTANA, University Politehnica of Bucharest, Romania Classification of Mental Effort vs. Relaxation States Using EEG Signals Alexandra Avasiloaie, Bianca-Alexandra Zîrnă, Maria Oniga, Alina Elena Sultana and Mădălin Corneliu Frunzete	Oral ONLINE
307	126	SP II	Alexander GEBHARD, University of Augsburg, Germany Towards Heart Rate Categorisation from Speech in Outdoor Running Conditions Alexander Gebhard, Shahin Amiriparian, Andreas Triantafyllopoulos, Alexander Kathan, Maurice Gerczuk, Sandra Ottl, Valerie Dieter, Mirko Jaumann, David Hildner, Patrick Schneeweiss, Inka Rösel, Inga Krauss and Björn Schuller	Oral ONSITE
312	134	SP II	Radu MATEI, Institute of Computer Science, Romanian Academy, Iasi; "Gheorghe Asachi" Technical University of Iasi, Romania, Romania Analysis of EEG Signals Using Empirical Mode Decomposition and Relative Band Energy Radu Matei	Oral ONLINE
316	144	SP II	Ionuț MANEA, Politehnica University of Bucharest, Romania Fetal ECG extraction from abdominal signals using empirical wavelet transform Ionut Manea and Dragoș Taralunga	Oral ONSITE
320	157	SP II	Anil SHARMA, Malaviya National Institute of Technology, India An Onset based Approach for Feature Extraction and Classification of EMG Signals Anil Sharma and Ila Sharma	Oral ONLINE
324	160	SP II	Aikaterini VRAKA, BioMIT.org, Universitat Politècnica de Valencia, Spain A Novel Strategy for Signal Reconstruction of Noisy Segments in Photoplethysmographic Recordings Aikaterini Vraka, Aurelio Quesada, Fernando Hornero, Arturo Martínez-Rodrigo, Raul Alcaraz Martínez and Jose Joaquin Rieta	Oral ONLINE
328	162	SP II	Mihai DUMITRESCU, Politehnica University of Bucharest, Romania Portable multiclass classification of epileptic seizures using electroencephalogram signals Mihai Dumitrescu and Dragoș Daniel Taralunga	Oral ONLINE
332	180	SP II	Mădălin FRUNZETE, Faculty of Electronics, Telecommunication and Information Technology, Romania Extraction and statistical analysis of fetal electrocardiogram Marius-Alin Dragu, Mădălin-Corneliu Frunzete and Bianca-Alexandra Zîrnă	Oral ONLINE
336	186	SP II	José María LÓPEZ BELINCHÓN, University of Castilla-La Mancha, Spain How Reproducible Are Heart Rate Variability Indices Along the Time to Predict Cardiovascular Events in Hypertensive Patients? José María López Belinchón, Miguel Ángel López Guerrero and Raúl Alcaraz Martínez	Oral ONLINE

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Medicine and Informatics I

THURSDAY, 17 NOVEMBER 2022

THURSDAY 17 November	Section: MI I SS 6	Medicine and Informatics I
17:00 – 19:00 Room II - Creangă	Moderators: Marcel COSTULEANU, Liana Mioara MOȘ	

PG	ID	Section	Participant & Title & Authors	Presentation
340	31	MI I SS 6	Lacramioara OPRICA, Alexandru Ioan Cuza University, Iasi, Romania Antibacterial activity of <i>Ocimum basilicum</i> L. extracts grown in aquaponic conditions against Gram-positive and Gram-negative species Simona Dunca, Lacramioara Oprica, Ira-Adeline Simionov, Alina Antache, Aurelia Nica, Marius-Nicuser Grigore, Anca Miron, Diana Costin, Răzvan Magean and Stefan-Mihai Petrea	Poster ONLINE
344	45	MI I SS 6	Gabriela CANDIA, Universidad Privada del Norte, Perú Systematic Review of the Sexual Education Impact and Reproductive Health on Adolescents Gabriela Stefanie Candia Medrano, Eimmy Marisella Rodriguez Lopez, Mario Edison Ninaquispe-Soto, Ana Nomberto Luperdi and Eduardo Quezada-Hidalgo	Oral ONLINE
348	65	MI I SS 6	Bogdan TEBREAN, Electrical Engineering and Measurements Department, Technical University of Cluj-Napoca, Romania Modelling and Experimental Didactic Solution for Analysing the Arterial Stenosis Bogdan Tebrean, Roxana Carausu, Calin Muresan and Titus Eduard Crisan	Oral ONLINE
352	92	MI I SS 6	Anula Divyash SINGH, Indian Institute of Technology, Hyderabad, India Immunomodulatory roles of extracellular vesicles secreted from human umbilical cord-derived mesenchymal stem cells. Anula Divyash Singh, Sreekanth Patnam, Aravind Kumar Rengan and Sasidhar Venkata Manda	Oral ONLINE
356	167	MI I SS 6	Adina ILIE, Grigore T. Popa University of Medicine and Pharmacy Iași, Romania Determining Heart Rate Variability in Oncological Patients Using ECG Holter vs Photoplethysmography – Old vs New Method Adina Carmen Ilie, Ana-Maria Turcu, Teodora Alexa-Stratulat, Ramona Stefaniu, Sabinne Marie Taranu, Cristian Rotariu, Hariton Costin and Ioana Alexa	Oral ONLINE
360	188	MI I SS 6	Dan Cristian MORARU, Grigore T. Popa University of Medicine and Pharmacy Iași, Romania Reconstruction techniques for traumatic and tumoral bone loss in hand surgery. Retrospective study. Mihaela Perțea, Stefana Luca, Dan Cristian Moraru, Petru Ciobanu, Teodor Roșca, Alexandru Filip, Claudiu Carp, Vladimir Poroch, Mihaela Poroch, Bogdan Veliceasa	Oral ONLINE
364	190	MI I SS 6	Dan Cristian MORARU, Grigore T. Popa University of Medicine and Pharmacy Iași, Romania Burn management using enzymatic debridement with Bromelain enriched Enzyme Mixture (Nexobrid™) – case series Dan Cristian Moraru, Stefana Luca, Teodor Rosca, Petru Ciobanu, Alexandru Filip, Claudiu Carp, Vladimir Poroch, Mihaela Poroch and Bogdan Veliceasa	Oral ONLINE
368	204	MI I SS 6	Diana COSTIN, Grigore T. Popa University of Medicine and Pharmacy Iași, Romania Nuclear Division Index (NDI) in Peripheral Blood Lymphocytes Exposed to X-Rays and Its Interferences in the Biodosimetry of Medical Personnel Occupationally Exposed to Ionizing Radiation Costin Diana, Popescu Irina Anca, Teodor Andreea, Grigorescu Andreea and Diaconu Stefania Oana	Oral ONLINE

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Medical Devices, Instrumentation, Measurements III

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THURSDAY 17 November	Section: MD III	Medical Devices, Instrumentation, Measurements III
17:00 – 19:00 Room III - White Salon	Moderators: Enrico CAIANI, George SERIȚAN	

PG	ID	Section	Participant & Title & Authors	Presentation
372	59	MD III	Giuseppe OLIVA, "Magna Græcia" University of Catanzaro, Italy Modeling of Electrical Impedance Tomography for Carcinoma Detection Filippo Laganà, Domenico De Carlo, Salvatore Calcagno, Giuseppe Oliva, Salvatore Andrea Pullano and Antonino S. Fiorillo	Poster ONLINE
376	70	MD III	Jessica CENTRACCHIO, Department of Electrical Engineering and Information Technologies, University of Naples Federico II, Italy A new piezoelectric sensor for Forcemycography application Jessica Centracchio	Oral ONLINE
380	71	MD III	Vendula MAHROVA, VSB – Technical University of Ostrava, Czech Republic A cardiovascular model for the development of mathematical algorithms for non-invasive continuous blood pressure determination Vendula Mahrova, Marek Penhaker and Michal Prochazka	Oral ONLINE
384	72	MD III	Rareș IUSAN, Tehnical University of Cluj-Napoca, Romania Research on measuring the equivalent electrical parameters of the epithelial tissue using the Kinova robot Alexandru Rares Iusan, Dan Doru Micu, Ovidiu Stan, Irina Camelia Chis, Dana Monica Iancu and Carmen Maria Micu	Oral ONLINE
388	88	MD III	Diego LAVADO, Universidad de Ingenieria y Tecnologia, Perú A Wearable Device based on IMU and EMG Sensors for Remote Monitoring of Elbow Rehabilitation Diego Martin Lavado Flores and Emir Augusto Vela Saavedra	Oral ONLINE
392	91	MD III	Mahdi BAMDAD, Aalborg University, Denmark Towards the Space Design for User Interface Elements of Inductive Tongue-Computer Interface Mahdi Bamdad, Oguzhan Kirtas, Mostafa Mohammadi and Lotte N. S. Andreasen Struijk	Oral ONLINE
396	99	MD III	Paul TOTA, Faculty of Electronics, Telecommunications and Information Technologies, Technical University from Cluj-Napoca, Romania Telepresence robot used in educational applications Paul Tota, Mircea-Florin Vaida, Gelu Ovidiu Tirian and Sebastian Maris	Oral ONLINE
400	112	MD III	David PERPETUINI, Department of Neuroscience, Imaging, and Clinical Sciences University G. D'Annunzio of Chieti-Pescara, Chieti, Italy, Italy A Machine Learning approach to classify driver mental workload as assessed by Electroencephalography through Infrared Thermal Imaging David Perpetuini, Daniela Cardone, Chiara Filippini, Sergio Nocco, Michele Tritto and Arcangelo Merla	Oral ONLINE
404	135	MD III	Oana Andreea RUȘANU, Transilvania University of Braşov, Romania A Python-based Brain-Computer Interface Application for Controlling An Intelligent House by Using Emotiv Insight EEG Headset and Arduino Mega Development Board Oana Andreea Rușanu	Oral ONLINE

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**Telemedicine, e/m/p-Health, Wearable systems;
 Applied Informatics towards Smart Healthcare Ecosystems**

THURSDAY, 17 NOVEMBER 2022

THURSDAY 17 November	Section: TM, SS 2	Telemedicine, e/m/p-Health, Wearable systems; Applied Informatics towards Smart Healthcare Ecosystems
17:00 – 19:00 Room IV - Caragiale	Moderators: Sorana BOLBOACĂ, Sorin PUȘCOCI	

PG	ID	Section	Participant & Title & Authors	Presentation
N/A	250	SS2	Sorana BOLBOACĂ, President of SRIM, "Iuliu Hațieganu" University of Medicine and Pharmacy, Cluj-Napoca, Romania Romanian Society of Medical Informatics: Who We Are and What Do We Do? Sorana Bolboacă	Oral ONLINE
N/A	251	SS2	Mihaela CRIȘAN-VIDA, Romania, Politehnica University Timisoara, Romania Edu4Health – an eLearning platform for digital health Mihaela Crișan-Vida, Lăcrămioara Stoicu-Tivadar	Oral ONLINE
N/A	252	SS2	Ariana-Anamaria CORDOȘ, Romania, "Iuliu Hațieganu" University of Medicine and Pharmacy, Cluj-Napoca, Romania Technostress Scientific Research: A Review Roxana Denisa Capraș, Ariana-Anamaria Cordoș, Sorana D Bolboacă	Oral ONLINE
N/A	253	SS2	Paul-Adrian CĂLBUREAN, Romania, George Emil Palade University of Medicine, Pharmacy, Science, and Technology of Târgu Mureș, Romania New trends in medical AI - Predicting coronary artery disease from resting and stress ECG tracings using a novel method based on wavelet analysis and deep learning Paul-Adrian Călborean, Klara Brînzaniuc, Liviu Moraru, Marius Mărușteri	Oral ONLINE
N/A	254	SS2	Viorel BOTA, Elisa Med Medical Center, Alba Iulia, Romania Virtual Clinic – component of Smart Healthcare Ecosystem Viorel Bota, Sorin Pușcoci	Oral ONSITE
408	8	TM	Pedro LOBO, 2Ai - Polytechnic Institute of Cávado and Ave, Barcelos, Portugal Smart Scan of Blood Test Documents to be Integrated in a mHealth Application Pedro Lobo, João Vilaça, Helena Torres, Bruno Oliveira and Alberto Simões	Poster ONSITE
412	60	TM	Alexander KEIL, University of Siegen, Germany Self-measurement of Vital Signs to Prevent and Treat Common Disease Patterns Alexander Keil, Kai Hahn, Nabeel Farhan, Dominic Hillerkuss, Rainer Brück and Olaf Gaus	Oral ONLINE
416	117	TM	Adriana ALEXANDRU, National Institute for Research and Development in Informatics, ICI Bucharest, Romania Managing Notifications and Alerts Generated by an IoMT-based Health Monitoring System for Older People Adriana Alexandru, Eugenia Tirziu, Eleonora Tudora and Dragos Nicolau	Oral ONLINE
420	123	TM	Elena PARASCHIV, National Institute for Research and Development in Informatics, ICI Bucharest, Romania Fall Detection System: Continuous in-Home Monitoring of Parkinson's Patients Elena-Anca Paraschiv, Cristian-Mihail Petrache, Ovidiu Bica and Ana-Mihaela Vasilevschi	Poster ONLINE
424	127	TM	Alfonso Maria PONSIGLIONE, Department of Electrical Engineering and Information Technology, University of Naples Federico II, Italy Discrete event simulation to study the impact of teleconsultation in a rehabilitation cardiology unit Giovanni Improta, Leandro Donisi, Eduardo Bossone, Ersilia Vallefucio, Alfonso Maria Ponsiglione and Francesco Amato	Poster ONLINE
428	141	TM	Evariste TWAHIRWA, African Center of Excellence in Internet of Things, College of Science and Technology, University of Rwanda, Rwanda Technology Empowered Healthcare Response in Pandemics: An IoT-based Covid-19 Test and Isolate System Evariste Twahirwa, Kambombo Mtonga, Kayalvizhi Jayavel, Willie Kasakula and Peace Bamurigire	Oral ONLINE
432	169	TM	Cătălin RADU, CITST, Romania A Smart Pillbox Integrated with an eHealth Platform Catalin-Mihai Radu, Andrei Mocanu, Irina Mocanu and Oana Teodora Cramariuc	Oral ONLINE
436	216	TM	Hannan AZHAR, Canterbury Christ Church University, United Kingdom Progressive Web App for Real-time Doctor-Patient Communication and Searchable Health Conditions M A Hannan Bin Azhar and Joseph Thomas Mohan	Oral ONSITE
441	233	TM	Rareș POGOREANU, Gheorghe Asachi Technical University of Iasi, Romania Portable Medical Sensor Data Monitoring and Acquisition Hardware Platform with Edge Computing and Wireless Communication Rareș Pogoreanu, Teofil Ilie Ursache, Radu Gabriel Bozomitu and Cristian Rotariu	Poster ONSITE
445	234	TM	Teofil URSACHE, Gheorghe Asachi Technical University of Iasi, Romania Web Based Medical System for Remote Heart Rate Monitoring with Cloud Integration Teofil Ilie Ursache, Rareș Pogoreanu, Radu Gabriel Bozomitu and Cristian Rotariu	Poster ONSITE

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Biomaterials and Biotechnologies I – BB I

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FRIDAY 18 November	Section: BB I	Biomaterials and Biotechnologies I
08:00 – 10:00 Room II - Creangă	Moderators: Maria BUTNARU, Vera BĂLAN	

PG	ID	Section	Participant & Title & Authors	Presentation
449	4	BB I	Lidia BENEĂ, Dunarea de Jos University of Galati, Romania Corrosion Reactivity in the Pre-clinical Study of 23 Grade Titanium Alloy in Ringer Solution Lidia Benea, Veaceslav Neaga and Nicoleta Bogatu	Oral ONLINE
453	6	BB I	Lidia BENEĂ, Dunarea de Jos University of Galati, Romania Electrochemical corrosion assessment of 316L stainless steel for dental structures in saliva solution Lidia Benea and Nicoleta Bogatu	Oral ONLINE
457	26	BB I	Oana-Georgiana DRAGOS-PINZARU, National Institute of Research and Development for Technical Physics, Romania Magnetic nanoparticles based on CoFe alloy as T2 MRI contrast agents Oana-Georgiana Dragos-Pinzaru, Dumitru-Daniel Herea, George Stoian, Firuta Borza, Nicoleta Lupu, Ibro Tabakovic, Daniel Shore and Bethanie J. H. Stadler	Poster ONSITE
461	57	BB I	Cristina GHINEA, "Stefan cel Mare" University of Suceava, Romania Defatted sesame seed cake: Influence on the physico-chemical and textural characteristics of mayonnaise Ana Leahu, Cristina Ghinea, Ancuta Petraru and Sorina Ropciuc	Poster ONSITE
465	61	BB I	Iulia DARIE, Dunarea de Jos University of Galati, Romania Principal Component Analysis Assessing the Potential Clustering of 2C-x and DOx amphetamines Iulia-Florentina Darie and Mirela Praisler	Oral ONSITE
469	62	BB I	Laura APOSTOL, Faculty of Food Engineering, Stefan cel Mare University of Suceava, Romania EXTRACTION OF ACTIVE COMPOUNDS FROM <i>Armoracia rusticana</i> USING MACERATION AND ULTRASOUND ASSISTED EXTRACTION Laura Apostol, Cristina Ghinea, Ancuta Elena Prisacaru and Eufrozina Albu	Poster ONSITE
473	83	BB I	Liliana-Laura BADITA-VOICU, National Institute of Research and Development in Mechatronics and Measurement Technique, Bucharest, Romania Influence of the Deposition Method on the Tribological Parameters of the Biocompatible Thin Films Liliana-Laura Badita-Voicu, Aurel Zapciu, Catalin Vitelaru and Arcadie Sobetkii	Oral ONSITE
477	120	BB I	Oana CRAMARIUC, IT Center for Science and Technology, Romania Electrospinning Thinner Nanofibers Using Lasers Iuliana Lupu, Andreea Groza, Oana Cramariuc, Mihai Serbanescu, Bogdan Bitu, Marius R. Zvonaru and Dumitru I. Nastac	Oral ONLINE
481	128	BB I	Yang YANG, Hangzhou Bi-foil Information Technology Co., Ltd., China Production and Properties of Needleless Electrospun Polycaprolactone and Self-Assembly Peptide Nanofiber Scaffold Yang Yang and Bingyin Shuai	Poster ONLINE

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Medical Devices, Instrumentation, Measurements IV

FRIDAY, 18 NOVEMBER 2022

FRIDAY 18 November	Section: MD IV	Medical Devices, Instrumentation, Measurements IV
08:00 – 10:00 Room III - White Salon	Moderators: Cristian FOȘALĂU, Radu Adrian MUNTEANU	

PG	ID	Section	Participant & Title & Authors	Presentation
485	130	MD IV	Khac Chinh TRAN, Danang University of Science & Technology, Vietnam Comparison of anomaly detection algorithms for near-fall detection with video surveillance Khac Chinh Tran, Meryem Gassi, Perla Nehme, Jacqueline Rousseau, Tan Khoi Nguyen and Jean Meunier	Oral ONLINE
489	136	MD IV	Constantin Viorel MARIAN, University Politehnica of Bucharest, Romania How to Use Auto-Adaptive Detection Algorithm and Area Under the Curve for Better Patients' Evaluation in a Continuous Glucose Monitoring Sensors Based Decision Expert System Constantin Viorel Marian	Oral ONLINE
493	138	MD IV	Nick PEARCE, Coventry University, United Kingdom The Effect of Valve Opening and Closing Time on the Mechano-Electric Feedback in the Left Ventricle. Nicholas Pearce and Eun-jin Kim	Oral ONLINE
497	140	MD IV	Mohammed Mujahid ULLA FAIZ, Presidency University, Bengaluru and University of Westminster, London, India A new fixed point noise cancellation method for suppressing power line interference in electrocardiogram signals Mohammed Mujahid Ulla Faiz, Saumya Reni and Izzet Kale	Oral ONLINE
501	152	MD IV	Shahin AMIRIPARIAN, University of Augsburg, Germany The Influence of Pleasant and Unpleasant Odours on the Acoustics of Speech Maurice Gerczuk, Anton Batliner, Shahin Amiriparian, Andreas Triantafyllopoulos, Franziska Heyne, Marie Klockow, Thomas Hummel and Björn Schuller	Oral ONSITE
506	165	MD IV	Beatrix-May BALABAN, Politehnica University of Bucharest, Romania Security issues in MCPS when using Wireless Sensor Networks Beatrix-May Balaban, Ioan Stefan Sacala, Alina-Claudia Petrescu-Nita and Radu Simen	Oral ONLINE
510	171	MD IV	José Miguel Costa PEREIRA, ESTS/IPS, Portugal Instrumentation Solution for Premature Babies Non-Nutritive Sucking Measurements with Self-Test and Calibration Capabilities José Miguel Costa Pereira, Joana Pereira, Octavian Postolache and Vítor Viegas	Oral ONLINE
514	173	MD IV	Marian POP, UMFST GE Palade, Romania 3D Printing for Improved Congenital Cardiovascular Pre-Procedural Assessment Marian Pop, Razvan Budeanu, Ioan Plamadiala and Raul-Calin Puchianu	Poster ONLINE
520	176	MD IV	Irina MOCANU, Computer Science Department, University Politehnica of Bucharest, Romania A Smart Device for Salivary Stimulation – Comparison Between Chemical and Electrical Stimuli Oana Teodora Cramariuc, Irina Mocanu, Iuliana Gabriela Lupu and Ligia Muntianu	Oral ONLINE

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Decision Support Systems, Artificial Intelligence III

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FRIDAY 18 November	Section: DSS-AI III	Decision Support Systems, Artificial Intelligence III
08:00 – 10:00 Room IV - Caragiale	Moderators: Dragoș AROTĂRIȚEI, Adriana ALBU	

PG	ID	Section	Participant & Title & Authors	Presentation
524	116	DSS-AI III	Marilena IANCULESCU, National Institute for Research and Development in Informatics, ICI Bucharest, Romania Managing cybersecurity threats for seniors' digital needs using age-friendly remote healthcare monitoring model Adriana Alexandru, Marilena Ianculescu, Ionut Emanuel Giura and Florin Pop	Oral ONLINE
528	119	DSS-AI III	Iulian CIOCOIU, "Gheorghe Asachi" Technical University of Iasi, Romania Evaluation of Bag-of-Words Classifiers for COVID-19 Detection from Cough Recordings Iulian Ciocoiu and Irina Pavel	Oral ONLINE
532	122	DSS-AI III	Paul FARAGO, Technical University of Cluj-Napoca, Romania Wearables as Part of Decision Support System in Parkinson's Disease Prediagnosis: A Case Study Paul Farago, Ana-Sorina Popescu, Lăcrămioara Perju-Dumbravă and Robert Radu Ileşan	Oral ONLINE
536	125	DSS-AI III	Eugen POP, Faculty of Automatic Control and Computers, University "Politehnica" of Bucharest, Romania A SOA Based E-Health Services Framework Liviu Ilie, Eugen Pop, Mihnea Moisescu and Simona Caramihai	Oral ONLINE
540	139	DSS-AI III	Liviu GORAS, Institute of Computer Science, Romanian Academy, Romania On the KNN classifier, the type of distance used and the weighting of the votes Monica Fira and Liviu Goras	Oral ONLINE
544	143	DSS-AI III	Daniele PADOVANO, Research Group in Electronic, Biomedical and Telecommunication Engineering, University of Castilla-La Mancha, Cuenca, Spain, Spain Machine Learning Methods to Detect Obstructive Sleep Apnea under a Robust Testing Framework Daniele Padovano, Arturo Martinez-Rodrigo, Jose Manuel Pastor Garcia, Jose Joaquin Rieta and Raul Alcaraz Martínez	Oral ONLINE
548	149	DSS-AI III	Răzvan SFAT, University Politehnica of Bucharest, Romania Medical Systems Open Data Exchange Interconnection and Web Questionnaires Based on the HL7 FHIR Standards Razvan Sfat and Constantin Viorel Marian	Oral ONLINE
552	150	DSS-AI III	Monica FERARU, Institute of Computer Science, Romanian Academy, Iasi, Romania,, Romania Recognition of Voice Commands Using CNN for Romanian Language Marius Dan Zbancioc, Razvan Butnaru and Silvia Monica Feraru	Oral ONLINE
556	227	DSS-AI III	Radu CIORA, University of Petrosani, Romania RoCoFake – A Romanian Covid-19 Fake News Dataset Radu A. Ciora and Adriana-Lavinia Cioca	Oral ONLINE

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Sensors, Data and AI for Crop Health Monitoring

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FRIDAY 18 November	Section: SS 4	Sensors, Data and AI for Crop Health Monitoring
11:30 – 13:30 Room II - Creangă	Moderators: Adel HAFIANE, Mihaela HNATIUC	

PG	ID	Section	Participant & Title & Authors	Presentation
560	23	SS 4	Mihaela HNATIUC, Constanta Maritime University, Romania IoT Systems for soil moisture control Mihaela Hnatiuc and Ionut Dragan	Oral ONSITE
564	40	SS 4	Mihaela HNATIUC, Constanta Maritime University, Romania Prediction Using Environmental Parameters to Identify the Vine Diseases Mihaela Hnatiuc and Domnica Alpetri	Poster ONSITE
568	51	SS 4	Sorin SINTEA, Constanta Maritime University, Romania FOG Computing for Vineyard Applications Hnatiuc Mihaela, Hnatiuc Bogdan and Sinte Sorin	Oral ONLINE
572	56	SS 4	Madalina COSMA, Murfatlar Research Station for Viticulture and Enology, Romania Data on the microbiota found in a Murfatlar vineyard in two different disease management practices Madalina Cosma, Aurora Ranca, Victoria Artem and Simona Ghita	Poster ONSITE
576	107	SS 4	Cristina BALACEANU, Beia Consult International, Romania Diseases Detection System based on Machine Learning Algorithms and Internet of Things Technology used in Viticulture Cristina Balaceanu, Robert Streche, Roxana Roscaneanu, Filip Osiac, Oana Orza, Sabina Bosoc and George Suci	Oral ONLINE
580	155	SS 4	Aurelia NICA, Dunarea de Jos University, Romania Overview of Hormonal Substances Used in Fish Reproduction Nica Aurelia, Ira-Adeline Simionov, Alina Antache, Dragos-Sebastian Cristea, Stefan-Mihai Petrea and Victor Cristea	Poster ONLINE
584	189	SS 4	Maryam OUHAMI, INSA CVL, University of Orléans PRISME Laboratory, EA 4229, (F18022) Bourges, France Meteorological Data and UAV Images for the Detection and Identification of Grapevine Disease Using Deep Learning Maryam Ouhami, Youssef Es-Saady, Mohammed El Hajji, Raphael Canals and Adel Hafiane	Oral ONLINE

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Medicine and Informatics II

FRIDAY, 18 NOVEMBER 2022

FRIDAY 18 November	Section: MI II	Medicine and Informatics II
11:30 – 13:30 Room III - White Salon	Moderators: Ioana ALEXA, Adina Carmen ILIE	

PG	ID	Section	Participant & Title & Authors	Presentation
588	28	MI II, SS 6	Ion MUNTEANU, Quantum Optics and Kinetic Processes Laboratory, Institute of Applied Physics, Ministry of Education, Culture and Research, Republic of Moldova, Academiei str. 5, Chisinau, R. Moldova, Republica Moldova Ultraviolet C radiation for disinfection and protection using periodical optical structure for dental implant Ion Munteanu, Elena Starodub, Marina Turcan, Sergiu Bazgan, Tatiana Paslari, Andrei Nistreanu and Nicolae Enaki	Poster ONSITE
592	36	MI II, SS 6	Etidal-Mihaela MANOLIU-HAMWI, Grigore T. Popa University of Medicine and Pharmacy Iași, Romania Patient Satisfaction with Online Pharmacy Services Etidal-Mihaela Manoliu-Hamwi, Cristina Gena Dascalu, Elena Mihaela Carasu, Georgeta Zegan and Catalina Daniela Stan	Oral ONLINE
596	90	MI II, SS 6	Delia TURCOV, Faculty of Chemical Engineering and Environmental Protection, „Cristofor Simionescu”, Technical University „Gheorghe Asachi” from Iasi, Romania In vitro evaluation of the dermatocosmetic emulsions based on Lady's Bedstraw (Galium verum) alcoholic extracts Delia Turcov, Anisoara Catalina Peptu, Ana Simona Barna, Anca Zbranca and Daniela Suteu	Oral ONLINE
600	209	MI II, SS 6	Cristina-Maria GAVRILESCU, Grigore T. Popa University of Medicine and Pharmacy Iași, Romania Molecular and Clinical Aspects in the Concept of Healthy Ageing Cristina-Maria Gavrilesu, Raluca Stanescu, Ioana Buculei, Cristina Vicol, Emanuel Stavarache, Roxana-Mihaela Barbu and Maria Spiridon	Oral ONSITE
604	229	MI II, SS 6	Lubomír ŠTĚPÁNEK, Department of Statistics and Probability, Faculty of Informatics and Statistics, Prague University of Economics and Business & Institute of Biophysics and Informatics, First Faculty of Medicine, Charles University, Prague, Czech Republic When COVID-19 approaches again: Early detection of an incoming new wave of COVID-19 positive cases inspired by linear breakpoint models Lubomír Štěpánek, Filip Habarta, Ivana Malá and Luboš Marek	Oral ONSITE

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Decision Support Systems, Artificial Intelligence - DSS-AI IV

FRIDAY, 18 NOVEMBER 2022

FRIDAY 18 November	Section: DSS-AI IV	Decision Support Systems, Artificial Intelligence IV
11:30 – 13:30 Room IV - Caragiale	Moderators: Elena NECHITA, Dana DĂNCIULESCU	

PG	ID	Section	Participant & Title & Authors	Presentation
609	151	DSS-AI IV	Rodrigo BONACIN, CTI Renato Archer, Brazil Predicting cancer relapse with machine learning from an open Brazilian database Marianela Dametto, Sérgio Modesto Vechi and Rodrigo Bonacin	Oral ONLINE
613	154	DSS-AI IV	Qasim ALI, Western Norway University of Applied Sciences, Norway Development of Vision Screening Tool In Virtual Reality: A Usability Assessment Study Qasim Ali, Are Dæhlen, Ilona Heldal and Carsten Helgesen	Oral ONLINE
618	161	DSS-AI IV	Andreas NEOCLEOUS, University of Cyprus, Cyprus The International Patient Summary: Proposal for a National Implementation for Cyprus Andreas Neocleous, Maria Papaioannou, Panayiotis Savva, Francisco Miguel, Andreas Panayides, Zinonas Antoniou, Marios Neofytou, Eirini C Schiza, Kleanthis Neokleous, Ioannis Constantinou, George Panos, Christos N. Schizas and Constantinos S. Pattichis	Oral ONLINE
623	178	DSS-AI IV	Asma CHEBLI, LRI Laboratory, Computer Science Department, Badji Mokhtar Annaba Univerisity, Algérie Coping with missing values in medical data sets: a proposal of an approach based on soft clustering and measures of central tendency Asma Chebli and Cristian-Gyozo Haba	Poster ONSITE
627	184	DSS-AI IV	Cătălin Adrian IORDACHE, Politehnica University of Bucharest, Romania Enhanced Accesability and Anti-Fraudulent System for Polling Stations and Mobile Voting in Hospitals Catalin Adrian Iordache and Constantin Viorel Marian	Oral ONLINE
631	196	DSS-AI IV	Alice-Lavinia CHIRU, Politehnica University of Bucharest, Romania A Support Module for the Virtual Patient Educational Platform Alice Lavinia Chiru, Imad Alex Awada, Alexandru Sorici, Adina Magda Florea and Alexandru Scafa-Udriște	Poster ONLINE
635	199	DSS-AI IV	Felix Constantin ADOCHIEI, Politehnica University of Bucharest, Romania Intelligent System for Automatic Assessment and Interpretation of Disguised Behaviour for Critical Infrastructure Personnel Felix Constantin Adochiei, Cosmin Banica, Ioana-Raluca Adochiei, Oana-Isabela Știrbu, Serban Teodor Nicolescu, Laura Dorobantu and Costin Cepisca	Oral ONSITE
639	200	DSS-AI IV	Oana-Isabela ȘTIRBU, Politehnica University of Bucharest, Romania Radiological Diagnosis of SARS-CoV-2 Infected Patients by Automated Classification of Chest Radiographs using DTL Oana-Isabela Știrbu, Serban Teodor Nicolescu, George Calin Seritan, Ioana Raluca Adochiei, Gladiola Petroiu, Florin Argatu and Felix-Constantin Adochiei	Oral ONSITE
643	219	DSS-AI IV	Constantin Viorel MARIAN, Politehnica University of Bucharest, Romania Real Time Notification Messaging (Using Area Under the Curve) for Diabetes Patients' Management in a Continuous Glucose Monitoring Sensors Based Decision Support System Constantin Viorel Marian	Poster ONLINE

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Medicine and Informatics III

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FRIDAY 18 November	Section: MI III	Medicine and Informatics III
15:00 – 17:00 Room II - Creangă	Moderators: Georgeta ZEGAN, Loredana GOLOVCENCU	

PG	ID	Section	Participant & Title & Authors	Presentation
647	32	MI III	Tahreem TANWEER, Department of Biomedical Engineering and Sciences, School of Mechanical & Manufacturing Engineering, National University of Science & Technology, Islamabad, Pakistan Transition Metal Doped Zinc Oxide Nanoparticles Ameliorates Antibacterial Potential of Dental Resin Composite in a Closed System In-vitro Biofilm Model Tahreem Tanweer, Nosheen Fatima Rana, Muhammad Jawad Khan, Iqra Saleem, Shabia Azhar, Iqra Shafique and Farid Menaq	Oral ONLINE
651	33	MI III	Georgeta ZEGAN, Grigore T. Popa University of Medicine and Pharmacy Iași, Romania Psychological Implications of the Covid-19 Pandemic on Dental Students and Dentists Georgeta Zegan, Elena Mihaela Carausu, Daniela Anistoroaei, Loredana Golovcencu, Alina Sodor-Botezatu, Eduard Radu Cernei and Cristina Gena Dascalu	Oral ONLINE
655	34	MI III	Imen HAMMAMI, Universidade de Aveiro, Portugal Synthesis and characterization of iron containing bioactive glass for implants Imen Hammami, Sílvia Rodrigues Gavinho, Ana Sofia Tomaz Teixeira de Pádua, Jorge Alexandre Monteiro de Carvalho Silva and Manuel Pedro Fernandes Graça	Oral ONLINE
659	37	MI III	Catalina Daniela STAN, Grigore T. Popa University of Medicine and Pharmacy Iași, Romania Patients' Perceptions of Community Pharmacy Services Catalina Daniela Stan, Georgeta Zegan, Cristina Gena Dascalu, Elena Mihaela Carausu and Etidal-Mihaela Manoliu-Hamwi	Oral ONLINE
663	48	MI III	Teodor-Cristian IONITA, University Politehnica of Bucharest, Romania Impact of COVID-19 Pandemic on Radiology and Medical Imaging Departments Activities in Romania Teodor-Cristian Ionita and Cristina Mihaela Gheorghe	Oral ONLINE
667	68	MI III	Eduard Radu CERNEI, Grigore T. Popa University of Medicine and Pharmacy Iași, Romania Efficiency of Two Different Types of Upper Bonded Retainers Eduard Radu Cernei, Cristina Gena Dascalu, Daniela Anistoroaei, Loredana Golovcencu, Alina Sodor-Botezatu and Georgeta Zegan	Oral ONLINE
671	75	MI III	Alina SODOR-BOTEZATU, Grigore T. Popa University of Medicine and Pharmacy Iași, Romania Assessment of Factors Influencing Orthodontic Patient Cooperation Alina Sodor-Botezatu, Daniela Anistoroaei, Eduard Radu Cernei, Loredana Golovcencu, Alexandra Nina Stan and Georgeta Zegan	Oral ONLINE
675	121	MI III	Loredana GOLOVCENCU, Grigore T. Popa University of Medicine and Pharmacy Iași, Romania Cephalometric Third Maxillary Molar Assessment Before and After Orthodontic Treatment Loredana Golovcencu, Daniela Anistoroaei, Iulia Catalina Saveanu, Eduard Radu Cernei, Alina Sodor-Botezatu and Georgeta Zegan	Oral ONLINE
679	133	MI III	Irina GRĂDINARU, Grigore T. Popa University of Medicine and Pharmacy Iași, Romania Alginate dental impression materials with Allantoin enrichment: a morphology, dynamic vapor sorption and swelling evaluation Irina Gradinaru, Bianca-Iulia Ciubotaru, Mihaela Dascălu, Alexandra Bargan and Ana-Lavinia Vasiliu	Oral ONLINE
683	181	MI III	Marilena-Catalina PUPEZESCU, Department of Applied Electronics and Information Engineering, University "Politehnica", Romania Instant Neural Graphic Primitives framework and its emerging applications in digitalization of dental care Catalina Pupezescu and Valentin Pupezescu	Oral ONLINE
687	191	MI III	Cristina DASCĂLU, Grigore T. Popa University of Medicine and Pharmacy Iași, Romania Correlations between the Motivational Persistence Scale and the Efficacy on Online Medical Learning Cristina Gena Dascalu, Georgeta Zegan and Magda Ecaterina Antohe	Oral ONLINE

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**Determining the Value of Emotional and Behavioural Characteristics
by Processing the Biosignals of the Human Body**

FRIDAY, 18 NOVEMBER 2022

FRIDAY 18 November	Section: SS 5	Determining the Value of Emotional and Behavioural Characteristics by Processing the Biosignals of the Human Body
15:00 – 17:00 Room III - White Salon	Moderators: Titi PARASCHIV, Felix ADOCHIEI	

PG	ID	Section	Participant & Title & Authors	Presentation
693	194	SS 5	Sun ZHOU, Xiamen University, China Slow Component Analysis Based Interictal-Preictal Electroencephalography Prediction Zihan Dong and Sun Zhou	Oral ONLINE
697	195	SS 5	Sun ZHOU, Xiamen University, China EEG-based Seizure Detection Using Generative Model and Deep Learning Zihan Dong and Sun Zhou	Oral ONLINE
701	197	SS 5	Laura Elena DOROBANȚU, SC WING COMPUTER GROUP SRL, Romania The Localization of the Epileptogenic Zone from the Intracranial Electroencephalogram Laura Dorobantu, Ruxandra Paraschiv, Titi Paraschiv, Florin Ciprian Argatu, Cosmin Banica and Felix Constantin Adochiei	Oral ONSITE
705	201	SS 5	Monica FERARU, Institute of Computer Science, Romanian Academy, Iasi, Romania,, Romania Fatigue Detection using the Adaptive Otsu Algorithm Marius Dan Zbancioc, Iulian Constantin Cadare and Silvia Monica Feraru	Oral ONLINE
709	210	SS 5	Titi PARASCHIV, Titu Maiorescu University, Romania Method of Determining the Anxiety Level through EEG Wave Processing Titi Paraschiv, Cosmin Karl Banica, Ruxandra Paraschiv, Catalin Stefan, Andrei Ignat and Felix Constantin Adochiei	Oral ONLINE
713	211	SS 5	Ruxandra PARASCHIV, Titu Maiorescu University, Romania COMPARATIVE STUDY OF STRESS USING THE CLASSICAL METHOD AND EEG WAVE PROCESSING Ruxandra Paraschiv, Cosmin Karl BĂNICĂ, Ioana-Raluca Adochiei, Laura Dorobantu, Diana Maria Cotorobai and Ionut Manea	Oral ONSITE
717	212	SS 5	Felix ADOCHIEI, University Politehnica of Bucharest, Romania Method for Diagnosing the Level of Depression Compared with the Classical Method Felix-Constantin Adochiei, Titi Paraschiv, Ioana Raluca Adochiei, Cosmin Karl Bănică, Ruxandra Paraschiv, Narcis Adochiei and Daniel Vasile Avramr	Oral ONSITE
721	213	SS 5	Oana-Isabela ȘTIRBU, University Politehnica of Bucharest, Romania Computational Method of Describing Persons Psychology After Processing EEG Waves Cosmin Banica, Ruxandra Paraschiv, Serban Teodor Nicolescu, Oana-Isabela Stirbu, Stefana Duta, Mihai Tutoveanu and Ioana-Raluca Adochiei	Oral ONSITE
725	214	SS 5	Diana Maria COTOROBAI, SC WING COMPUTER GROUP SRL, Romania Review of the evaluation methods for stress, anxiety, and depression levels Diana Maria Cotorobai, Cosmin Banica, Mihai Tutoveanu, Ruxandra Paraschiv, Stefana Duta, Ionut Manea and Ioana-Raluca Adochiei	Oral ONLINE

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Medical Imaging and Image Processing - MIIP II

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FRIDAY 18 November	Section: MIIP II	Medical Imaging and Image Processing II
15:00 – 17:00 Room IV - Caragiale	Moderators: Constantin VERTAN, Mircea VAIDA	

PG	ID	Section	Participant & Title & Authors	Presentation
729	19	MIIP II	Renato IVANESCU, University of Craiova, Romania Parallel vs Distributed Edge Detection for Large Medical Image Datasets Renato Constantin Ivanescu, Rodica Nagy, Anca Istrate-Ofiteru, Cristina Comanescu and Alexandru Manda	Oral ONLINE
733	53	MIIP II	Juan CARRILLO, Escuela de Ingeniería de Sistemas e Informática, Universidad Industrial de Santander, Colombia Glaucoma detection using fundus images with mimetic anisotropic filtering and convolutional neural networks Juan S. Carrillo, Jorge Villamizar, Giovanni Calderon, Lola Bautista, Juan Rueda and Jose E. Castillo	Oral ONLINE
737	80	MIIP II	Arthur SCHUCHTER, uit norges arktikse universitet, Austria Real-Time Voxel-based 2D to 3D CT Visualisation Framework for Volumetric Capacity Estimation Arthur Schuchter, Giovanni Petrarolo and Dominik Griessner	Poster ONLINE
741	81	MIIP II	Florin ROTARU, Institute of Computer Science, Romanian Academy, Romania Captive Animal Stress Study by Video Analysis Florin Rotaru, Silviu Ioan Bejinariu, Hariton Costin, Ramona Luca and Cristina Nita	Poster ONLINE
745	98	MIIP II	Radu CHIFOR, Iuliu Hatieganu University of Medicine and Pharmacy Cluj-Napoca, Romania Carotid artery and thyroid gland Artificial Intelligence based automatic segmentation form ultrasound images – qualitative evaluation of the segmentation results using 3D ultrasound reconstructions, a preliminary study Radu Chifor, Tudor Arsenescu, Tiberiu Marita, Andrei Santoma, Alexandru Florin Badea, Daniel Duma, Vitalie Vacaras and Andrei Lebovici	Oral ONLINE
749	108	MIIP II	Juan CAÑADA, Universidad Politécnica de Madrid, Spain Assistance to lung cancer detection on histological images using Convolutional Neural Networks Juan Cañada, Elisa Cuello, Francisco Javier Velasco, Luis Téllez, Juan Manuel García and Julián Cabrera	Oral ONLINE
753	124	MIIP II	Isabel María RODRÍGUEZ, Universidad Politécnica de Madrid, Spain Coronary Artery Segmentation on Echocardiograms for Kawasaki Disease Diagnosis Isabel María Rodríguez, Tomás Manticón, Elisa Fernández-Cooke, Carlos Grasa, Ana Barrios, Belén Toral, Leticia Albert, Pablo Rojo and Julian Cabrera	Oral ONLINE
757	163	MIIP II	Shishir MAHESHWARI, Thapar University, Punjab, India A comparison of local descriptor-based data augmentation techniques for glaucoma detection using retinal fundus images Shishir Maheshwari and T. Sunil Kumar	Poster ONLINE
761	168	MIIP II	Cristina-Petruța MANOILĂ, University of Warwick, United Kingdom smartMRI framework for segmentation of MR images using multiple deep learning methods Cristina-Petruța Manoila, Alexe Ciurea and Felix Albu	Oral ONLINE
765	179	MIIP II	Adrian CIOBANU, Institute of Computer Science, Romanian Academy - Iasi Branch, Romania Deep Learning in Colonoscopies: Improving Small Polyps Recognition Rate Adrian Ciobanu, Mihaela Luca, Radu Vulpoi, Oana Barboi and Vasile Drug	Oral ONLINE

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Biomechanics - BM

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FRIDAY 18 November	Section: BM	Biomechanics
17:00 – 19:00 Room II - Creangă	Moderators: Mihaela BARITZ, Sînziana BUTNARU MOLDOVEANU	

PG	ID	Section	Participant & Title & Authors	Presentation
769	15	BM	Diana POPESCU, University Politehnica of Bucharest, Romania Two Production Approaches for 3D-printed Customized Wrist-hand Orthoses Diana Popescu, Dan Lăptoiu, Rodica Marinescu and Nicoleta Căruțașu	Oral ONLINE
773	17	BM	Mihai POPESCU, Univertitatea Politehnica Bucuresti & Univ. de Medicina Carol Davila, Romania Systemic models at the spinal level for the locomotion control Mihai Popescu and Cristian Ravariu	Oral ONLINE
777	69	BM	Alexander KATHAN, University of Augsburg, Germany Investigating individual- and group-level model adaptation for self-reported runner exertion prediction from biomechanics Alexander Kathan, Andreas Triantafyllopoulos, Shahin Amiriparian, Alexander Gebhard, Sandra Ottl, Maurice Gerczuk, Mirko Jaumann, David Hildner, Valerie Dieter, Patrick Schneeweiss, Inka Rösel, Inga Krauss and Björn Schuller	Oral ONSITE
781	111	BM	Doina Ioana BADEA, Department of Rehabilitation Medicine, Carol Davila University of Medicine and Pharmacy, UMFC, Bucharest, Romania, Romania Changes in plantar pressure distribution induced by RELIVE overground gait rehabilitation system Doina Ioana Badea, Ileana Ciobanu, Alina Iliescu, Georgiana Ionela Padurarur, Mihaela Anca Alexe, Delia Prisecaru, Petre Lucian Seiciu and Mihai Berteanu	Poster ONLINE
785	114	BM	Christiane MALÁ, Dept. of Biomedical Informatics, Faculty of Biomedical Engineering, Czech Technical University in Prague, Kladno, Czech Republic, Czech Republic Short Review of the Use of Brain Morphometry in Gait Impairments Analysis in Parkinson's Disease Christiane Malá and Radim Krupička	Poster ONSITE
789	129	BM	Raul MALUȚAN, Technical University of Cluj Napoca, Romania Data Analytics of Gait Monitoring from Parkinson's Disease Patients Raul Malutan, Andreia Valentina Miclea, Stefania Barburiceanu and Dan Tudor Oltean	Poster ONSITE
793	132	BM	Oana-Andreea CHIRIAC, Department of Mechatronics and Precision Mechanics, Romania Research on the Analysis and Evaluation of the Performance of the Prosthetic Foot Oana Andreea Chiriac and Constantin Nitu	Oral ONLINE
797	137	BM	Robert LEMOYNE, Department of Biomedical Technology, Czech Technical University, United States Longitudinal Evaluation of Diadochokinesia Characteristics for Hemiplegic Ankle Rehabilitation by Wearable Systems with Machine Learning Robert LeMoyne and Timothy Mastroianni	Oral ONLINE
801	145	BM	Junxiao XIE, Xi'an Jiaotong University, China Gait diagnosis of Parkinson's disease based on piezoresistive and piezoelectric hybrid sensors Junxiao Xie, Huan Zhao and Junyi Cao	Oral ONLINE
805	223	BM	Leandro DONISI, Department of Electrical Engineering and Information Technology, University of Naples Federico II, Italy Biomechanical risk classification according to NIOSH in workers affected by occupational pathologies Leandro Donisi, Giuseppe Cesarelli, Edda Capodaglio, Monica Panigazzi, D'Addio Gianni, Alfonso Maria Pongiglione and Maria Romano	Oral ONLINE

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Medical Devices, Instrumentation, Measurements V

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FRIDAY 18 November	Section: MD V	Medical Devices, Instrumentation, Measurements V
17:00 – 19:00 Room III - White Salon	Moderators: Fabrizio CLEMENTE, Dan DOBREA	

PG	ID	Section	Participant & Title & Authors	Presentation
809	77	MD V	Diego CAJAL, University of Zaragoza, Spain Smartphone PPG validation for a depression assessment protocol Diego Cajal, Mar Posadas-de Miguel, Concepción de la Cámara, Spyridon Kontaxis, Jesús Lázaro and Raquel Bailón	Oral ONSITE
813	87	MD V	Giuseppe OLIVA, "Magna Græcia" University of Catanzaro, Italy Naifold Video Capillaroscopy for the Analysis of Microcirculation Giuseppe Oliva, Maria Giovanna Bianco, Filippo Laganà, Domenico De Carlo, Antonino S. Fiorillo and Salvatore Andrea Pullano	Oral ONLINE
817	182	MD V	Adrian VULPE-GRIGORAȘI, Politehnica University of Bucharest, Romania GAN based synthetic ECG for psychological stress Adrian Vulpe-Grigorasi and Ovidiu Grigore	Oral ONLINE
821	185	MD V	Dan-Marius DOBREA, Gheorghe Asachi Technical University of Iasi, Romania –An L-Band EMI analysis of the influence of different components used with the NXP HoverGames UAV Dan-Marius Dobrea and Monica-Claudia Dobrea	Oral ONLINE
825	193	MD V	Gerardo H. MARTINEZ-DELGADO, Universidad de Monterrey, Mexico Predicting High Levels of Blood Glucose through Heart Rate Variability and Machine Learning Gerardo H. Martinez-Delgado and Antonio Martinez-Torteya	Oral ONSITE
831	198	MD V	Radu Nicolae PIETRARU, Politehnica University of Bucharest, Romania Winter in Europe 2022-2023 - Concerns About The Effects of The Energy Crisis On Indoor Environmental Quality and Public Health Radu Nicolae Pietraru, Felix Constantin Adochiei and Ilona Madalina Costea	Oral ONLINE
835	215	MD V	Șerban Teodor NICOLESCU, Politehnica University of Bucharest, Romania The Optimization of a Real-Time Indoor Air Quality Monitoring System Serban Teodor Nicolescu, Oana-Isabela Știrbu, George Calin Seritan, Florin Argatu, Gladiola Petroiu, Radu Ciucu and Ioana Raluca Adochiei	Oral ONSITE
839	220	MD V	Felix Constantin ADOCHIEI, Politehnica University of Bucharest, Romania A Multipurpose Video Immersion Laboratory Sorin-Dan Grigorescu, George-Calin Seritan, Bogdan-Adrian Enache, Felix-Constantin Adochiei, Florin-Ciprian Argatu, Irina Vilciu and Teodor-Iulian Voicila	Poster ONSITE
843	222	MD V	Alfonso Maria PONSIGLIONE, Department of Electrical Engineering and Information Technology, University of Naples Federico II, Italy A Unified Framework for the Modeling of Negative Feedback Physiological Control Systems Francesco Montefusco, Alfonso Maria Ponsiglione, Alessio Merola, Carlo Cosentino, Maria Romano and Francesco Amato	Oral ONLINE

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Biomaterials and Biotechnologies II – BB II

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FRIDAY 18 November	Section: BB II	Biomaterials and Biotechnologies II
17:00 – 19:00 Room IV - Caragiale	Moderators: Liliana VEREȘTIUC, Loredana NIȚĂ	

PG	ID	Section	Participant & Title & Authors	Presentation
847	142	BB II	David CABALLERO, Jesús Usón Minimally Surgery Research center, Spain Photoinitiator release of photoprinted SLA resins for lab-on-a-chip applications David Patrocinio, J. Blas Pagador, Víctor Pablo Galván Chacón, Sónia A. Pereira Miguel, Maximiano Ribeiro, Paul Coutinho, Francisco Miguel Sánchez-Margallo and Jorge Loureiro	Oral ONLINE
851	146	BB II	Cristina-Gabriela GRIGORAȘ, "Vasile Alecsandri" University of Bacău, Department of Chemical and Food Engineering, Romania Evaluation of Three Operational Parameters in Adsorption Process of Organic Dyes Cristina-Gabriela Grigoraș, Andrei-Ionuț Simion, Lidia Favier and Lucian Gavriță	Poster ONLINE
855	148	BB II	Iuliana SOLDANESCU, Integrated Center for Research, Development and Innovation for Advanced Materials, Nanotechnologies, Manufacturing and Control Distributed Systems (MANSiD), Stefan cel Mare University of Suceava, 720229 Suceava, Romania, Romania Nanopore sensing for proteins involved in disease Iuliana Soldanescu, Andrei Lobiuc and Mihai Dimian	Oral ONLINE
859	159	BB II	David PATROCINIO CABALLERO, CCMIJU, Spain Mixing analysis of high viscous hydrogels for bioprinting J. Blas Pagador, David Patrocinio, Víctor Pablo Galván Chacón and Francisco Miguel Sánchez-Margallo	Oral ONLINE
863	172	BB II	Iulian GABUR, Iasi University of Life Sciences, Romania Phenotypic analysis of Vegetal Genetic Resources Bank "Mihai Cristea" Suceava germplasm in North-East Romanian field conditions Iulian Gabur, Tiberiu Sirbu, Georgiana Diana Gabur, Violeta Simioniuc, Danela Murariu and Dănuț Petru Simioniuc	Poster ONLINE
867	217	BB II	Florina Daniela COJOCARU, Department of Biomedical Sciences, Faculty of Medical Bioengineering, Grigore T. Popa University of Medicine and Pharmacy of Iasi, Romania A comparative study on the morphology and in vitro behaviour of biopolymers/ceramic-based scaffolds obtained by drying and lyophilization techniques Florina Daniela Cojocaru, Vera Balan, Bogdan Istrate, Maria Butnaru and Liliana Verestiuc	Oral ONLINE
871	218	BB II	Isabella NACU, Biomedical Sciences, Faculty of Medical Bioengineering, "Grigore T. Popa" University of Medicine and Pharmacy, 2Department of Natural, Bioactive and Biocompatible Polymers, "Petru Poni" Institute of Macromolecular Chemistry, Iasi, Romania, Romania 3D Bioprinted methacrylated gelatin-based scaffolds Teodora Baiu, Isabella Nacu, Loredana Elena Nita and Liliana Verestiuc	Oral ONSITE
875	221	BB II	Ștefan PETREA, Dunarea de Jos University of Galati, Romania The impact of growth media on production and volatile oil composition of Ocimum basilicum L. cultured in aquaponic conditions Ștefan Mihai Petrea, Alina Antache, Ira Adeline Simionov, Aurelia Nica, Lacramioara Oprica, Anca Miron, Razvan Magean, Sarina Rosenberg and Dragos Cristea	Oral ONLINE