

BHI Poster Sessions

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36	1	Fuzzy Entropy Spectrum Analysis for Biomedical Signals De-Noising	Xie, Hong-Bo; Guo, Tianruo
41	1	Learning a Physical Activity Classifier for a Low-Power Embedded Wrist-Located Device	Delgado-Gonzalo, Ricard; Renevey, Philippe; Tarniceriu, Adrian; Parak, Jakub; Bertschi, Mattia
47	1	Impact of Suppressed Tremor: Is Suppression of Proximal Joints Sufficient?	Zhou, Yue; Jenkins, Mary; Naish, Michael D.; Trejos, Ana Luisa
52	1	Preliminary Results on Transthoracic Bioimpedance Measurements with a Variety of Electrode Materials	Reljin, Natasa; Posada-Quintero, Hugo Fernando; Noh, Yeon Sik; Eaton-Robb, Caitlin; Dimitrov, Tanya; Murphy, Laura; Riistama, Jarno; Chon, Ki
82	1	Autonomous Gait Speed Estimation Using 24GHz FMCW Radar Technology	Boroomand, Ameneh; Shaker, George; Morita, Plinio Pelegrini; Wong, Alexander; Boger, Jennifer
91	1	A Study on IMU-Based Stride Length Estimation for Motor Disabled Subjects: A Comparison under Different Calculation Methods of Rotation Matrix	Watanabe, Takashi; Miyazawa, Tasuku; Shibasaki, Jun
135	1	Fast and Efficient Genotype Encoding Using Sparse 2D Bitmaps for Database-Driven Genomics Applications	Al Kawam, Ahmad; Datta, Aniruddha
141	1	Developing a Novel Noise Artifact Detection Algorithm for Smartphone PPG Signals: Preliminary Results	Bashar, Syed Khairul; Han, Dong; Soni, Apurv; McManus, David; Chon, Ki
142	1	Towards Fully Instrumented and Automated Assessment of Motor Function Tests	De Luca, Valeria; Muaremi, Amir; Giggins, Oonagh; Walsh, Lorcan; Clay, Ieuan
252	1	A Sensor Data Collection Environment for Clinical Trials Investigating Health Effects of Airborne Pollution	Arvind, D K
124	1	Unsupervised Detection of Epileptic Seizures from EEG Signals: A Channel-Specific Analysis of Long-Term Recordings	Tsiouris, Kostas; Konitsiotis, Spiros; Markoula, Sofia; Rigas, Georgios; Koutsouris, Dimitrios; Fotiadis, Dimitrios I.
205	1	FCLAB: An EEGLAB Module for Performing Functional Connectivity Analysis on Single-Subject EEG Data	Pezoulas, Vasileios; Athanasiou, Alkinoos; Nolte, Guido; Zervakis, Michalis; Fratini, Antonio; Fotiadis, Dimitrios I.; Klados, Manousos
274	1	Deep EEG Super-Resolution: Upsampling EEG Spatial Resolution with Generative Adversarial Networks	Corley, Isaac; Huang, Yufei
291	1	A Hierarchical LSTM Model for Modeling EEG Non-Stationarity	Hasib, Md Musaddaql; Nayak, Tapsya; Huang, Yufei
471	1	Long-Term Simultaneous Monitoring of NIRS and EEG Signals for Analysis of Depression Risk	Oyama, Katsunori; Rahman, Labiblais

409	1	Real-Time Estimation of Energy Expenditure Using Noninvasive Wearable Sensors for Multivariable Artificial Pancreas System	Sevil, Mert; Rashid, Mudassir; Maloney, Zacharie; Samadi, Sediqeh; Lazaro, Caterina; Frantz, Nicole; Hajizadeh, Iman; Feng, Jianyuan; Brandt, Rachel; Cinar, Ali
440	1	A Study on the Fall Risk Estimation Method Using RGB-D Sensor	shimomiyazono, shogo; tamura, hiroki
263	1	A Pervasive and Sensor-Free Deep Learning System for Parkinsonian Gait Analysis	Ajay, Jerry; Song, Chen; Wang, Aosen; Langan, Jeanne; Li, Zhinan; Xu, Wenyao
408	1	Estimation of Central Blood Pressure from Non-Invasive Diametric Pulse Volume Signals: Rigorous In-Human Evaluation	Ghasemi, Zahra; Lee, Jongchan; Kim, Chang-Sei; Cheng, Hao-min; Sung, Shih-Hsien; Chen, Chen-Huan; Mukkamala, Ramakrishna; Hahn, Jin-Oh
422	1	Neural Entrainment During Sensorimotor Synchronization to Auditory and Visual Stimulus	Matsumoto, Akihiro; Tanaka, Toshihisa
225	1	Pattern Analysis and Classification of Blood Oxygen Saturation Signals with Nonlinear Dynamics Features	Pham, Tuan D.
457	1	Using Aerodynamic Features and Their Uncertainty for the Ambulatory Assessment of Phonotraumatic Vocal Hyperfunction	Cortes, Juan Pablo; Espinoza, Víctor M.; Ghassemi, Marzyeh; Mehta, Daryush; Van Stan, Jarrad; Hillman, Robert; Guttag, John; Zañartu, Matias
145	1	A Hybrid Feature Extraction Method to Detect Atrial Fibrillation from Single Lead ECG Recording	Mahajan, Ruhi; Kamaleswaran, Rishikesan; Akbilgic, Oguz
44	1	Inverse ECG Modeling with Spatiotemporal Regularization for the Characterization of Myocardial Infarctions	Yao, Bing; ZHU, RUI; Yang, Hui
296	1	A Deep Multi-Task Learning Approach for ECG Data Analysis	Ji, Jinlong; Chen, Xuhui; Luo, Changqing; Li, Pan
191	1	Free-Living Eating Event Spotting Using EMG-Monitoring Eyeglasses	Zhang, Rui; Amft, Oliver
24	1	Detection of Beat-To-Beat Intervals from Wrist Photoplethysmography in Patients with Sinus Rhythm and Atrial Fibrillation after Surgery	Tarniceriu, Adrian; Harju, Jarkko; Vehkaoja, Antti; Parak, Jakub; Delgado-Gonzalo, Ricard; Renevey, Philippe; Yli-Hankala, Arvi; Korhonen, Ilkka
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171	1	Energy-Efficient ECG Compression in Wearable Body Sensor Network by Leveraging Empirical Mode Decomposition	Huang, Hui; Shiyang, Hu; Sun, Ye

239	1	Remote Heart Rate Variability for Emotional State Monitoring	Benezeth, Yannick; LI, Peixi; MACWAN, RICHARD; Nakamura, Keisuke; Gomez, Randy; Yang, Fan
245	1	Sensitivity Analysis of Wearable Textiles for ECG Sensing	Tong, Wenxin; Kan, Chen; Yang, Hui
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289	1	Translating Semg Signals to Continuous Hand Poses Using Recurrent Neural Networks	Quivira, Fernando; Koike-Akino, Toshiaki; Wang, Ye; Erdogmus, Deniz
303	1	Inferring Physical Agitation in Dementia Using Smartwatch and Sequential Behavior Models	Alam, Ridwan; Anderson, Martha; Bankole, Azziza; Lach, John
383	1	Cortical Activity During Turning in Parkinson's Disease: Response to Tactile Biofeedback	Stuart, Samuel; Booth, Georgeann; Mancini, Martina
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394	1	Automatic Fusion of Inertial Sensors and Clinical Risk Factors for Accurate Fall Risk Assessment During Balance Assessment	Greene, Barry R.; McManus, Kllian; Caulfield, Brian
395	1	An Objective Measurement for Scoring Parkinson's Disease Motor States - a Validation Study	Johansson, Dongni; Thomas, Ilias; Westin, Jerker; Bergquist, Filip
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397	1	Optimizing Characterization of Lymphedema Compression Sleeves: A Step towards Bespoke Garments	Hageman, Daniel; Duvenage, Jacob; Viridi, Karen; Knothe Tate, Melissa
398	1	Smart Activity Tracker Adherence and Acceptance by Older Adults	Kim, Ben; Nguyen, Olivier; Puri, Arjun; Lee, Joon
400	1	Vision-Based Bed Detection for Patient Monitoring System in Hospitals	Inoue, Madoka; Taguchi, Ryo; Umezaki, Taizo
406	1	Blood Pressure Monitoring Using a Smartphone Camera: Performance of the OBPM Technology	Sola, Josep; Proença, Martin; Schoettker, Patrick; Lemkaddem, Alia; Braun, Fabian; Verjus, Christophe; Bertschi, Mattia; Jones, Elliott; Kunz, Thierry
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416	1	Examination of Front-End Voltage Followers for Wearable Noncontact Electrocardiogram Measurement	Kato, Yuki; Nakamura, Hajime; Ueno, Akinori

417	1	Evaluating the Improvement Factor of R-Wave Detection Rate after Gain Readjustment	Shoji, Kento; Yamakawa, Toshitaka
419	1	Fog Computing Platform for Sensor-To-Cloud Interconnection and Health IoT Applications	Gong, li; Zou, zhuo; Zheng, Li-Rong
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436	1	A Study on the Viewpoint Estimation System Using Eye Tracking System	SYOICHIZONO, Misaki; tamura, hiroki; koto, yosimi; sakurai, keiko; YAN, Mingmin; Prasetio, Barlian Henryranu; tanno, koichi
447	1	Deep Learning for Energy Expenditure Prediction in Pre-School Children	Chowdhury, Alok Kumar; Tjondronegoro, Dian; Zhang, Jinglan; Hagenbuchner, Markus; Cliff, Dylan; Trost, Stewart G.
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451	1	An Evaluation of a Wrist Motion Tracking Algorithm to Detect Eating Activities on 408 People	Sharma, Surya; Jasper, Phillip; Muth, Eric; Hoover, Adam
452	1	Driver Drowsiness Detection Using High Resolution Spectral Analysis of EEG	Taherisadr, Mojtaba; Dehzangi, Omid
460	1	Estimation of Body Balance in Traumatic Brain Injury with Mhealth	Lee, Hyunhwa; Lee, Sungchul; Muthukumar, Venkatesan; Lee, Szu-Ping; Salado, Laura; Estrada, Jonica; Alex, Santos; Mohapatra, Sambit
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463	1	Consumer-Grade Wrist-Worn PPG Sensors Can Be Used to Detect Differences in Heart Rate Variability among a Heterogeneous Prediabetic Population	Yeh, Hugh; Dunn, Jessilyn; Prieto, Thomas; Luc, Franklin; Muppidi, Srikanth; Delp, Scott; Snyder, Michael
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401	1	Psychological Flow Experience Related to Heart Rate Rhythm	Shibui, Toyohito; Jamalipournokandeh, Omid; Yoshikawa, Reina; Yana, Kazuo; Asakawa, Kiyoshi; Momoi, Emi; Moon, Chiho; Yokochi, Jun; Oshirabe, Katsuyuki
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4	1	Clinical Outcomes of Single-Fraction SRS Brain Cases at a Regional Center of MSK - a Retrospective Analysis	Lim, Ethan; Lin, Hui; Parhar, Preeti K.; Shi, Chengyu; Chan, Maria
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355	2	Prediction of Tumor Location in Prostate Cancer Tissue Using Gene Expression	Hamzeh, Osama; Alkhateeb, Abedalrhman; Rueda, Luis
385	2	Femoral Bone Gain and Loss Analysis after Total Hip Arthroplasty	Gislason, Magnus Kjartan; Ben Johnston, Ben; Edmunds, Kyle; Jónsson, Halldór; Gargiulo, Paolo
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455	2	Identifying Gene Biomarkers for Breast Cancer Survival Using a Tree-Based Approach	Abou Tabl, Ashraf; Alkhateeb, Abedalrhman; ElMaraghy, Waguih; Rueda, Luis; Ngom, Alioune
459	2	Development of Patch-Less Biosignal Measurement System in Driving Environment	Kim, Chan-Il; Kim, Yoon Nyun; Lee, Jong-Ha; Park, Eun-Bin

132	2	A Social Cognitive Theory-Based Framework for Monitoring Medication Adherence Applied to Endocrine Therapy in Breast Cancer Survivors	Boukhechba, Mehdi; Bae, Sonia; Nobles, Alicia; Gong, Jiaqi; Wells, Kristen; Barnes, Laura
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439	2	Clustering Patient Models of Intracranial Pressure Dynamics	Gunn, Cameron Allan; Hu, Xiao; Vandenberghe, Lieven
445	2	Agile Acceptance Test-Driven Development of Clinical Decision Support in an Electronic Health Record	Basit, Mujeeb; Baldwin, Krystal; Kannan, Vaishnavi; Parks, Cassandra; Ott, Jason; Flahaven, Emily; Donahue, Irma; Carrington, Angela; Melaku, Tsedey; Willett, DuWayne
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448	2	"User Stories" As Lightweight Requirements for Agile Clinical Decision Support	Carrington, Angela; Kannan, Vaishnavi; Youngblood, Josh; Bajaj, Puneet; Gabriel, Kyle; Wang, Karen; Melaku, Tsedey; Bhat, Deepa; Willett, DuWayne; Basit, Mujeeb
450	2	A computerized decision support system for head and neck cancer	Hernandez, Liss; Lopez-Perez, Laura; Fico, Giuseppe; Fernandez, Alejandra; Ugena, Ana Maria; Guillen, Sergio; Cabrera-Umpierrez, Maria Fernanda; Arredondo, María Teresa
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65	2	Cognitive Computing for the Automated Extraction and Meaningful Use of Health Data in Narrative Medical Notes: An Application to the Clinical Management of Hearing Impaired Aged Patients	Tognola, Gabriella; Murri, Alessandra; Cuda, Domenico
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221	2	Assessment of soft-tissue sarcomas perfusion using data-driven techniques	Venianaki, Maria; Karantanas, Apostolos; de Bree, Eelco; Maris, Thomas; Kontopodis, Eleftherios; Nikiforaki, Katerina; Salvetti, Ovidio; Marias, Kostas
227	2	Changes in Driving Acceleration Pattern Variability Related to Cognitive and Physical Health	Howcroft, Jennifer Dawn; Wallace, Raymond Bruce; Goubran, Rafik A.; Marshall, Shawn; Porter, Michelle; Knoefel, Frank-Dietrich
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359	2	Deep Learning and Handcrafted Feature Based Approaches for Automatic Detection of Angiectasia	Konstantin, Pogorelov; Ostroukhova, Olga; Petlund, Andreas; Halvorsen, Pål; De Lange, Thomas; Nygaard Espeland, Håvard; Kupka, Tomas; Griwodz, Carsten; Riegler, Michael
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392	2	Determining Cardiorespiratory Causal Paths in Elite Athletes in Supine Position	Myczak, Marcel; Krysztofiak, Hubert; Cybulski, Gerard
393	2	A Weighted Context-Dependent Model for Ambiguity Resolution	Amerineni, Rajesh; Gupta, Resh; Gupta, Lalit
404	2	Addressing the Unmet Needs in Primary Sjögrens Syndrome: The HarmonicSS Initiative	Pezoulas, Vasileios; Kourou, Konstantina; Georga, Eleni I.; Exarchos, Themis P.; Andronikou, Vassiliki; Varvarigou, Theodora; Tzioufas, Athanasios; De Vita, Salvatore; Fotiadis, Dimitrios I.
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421	2	Contact Algorithm for Stent Deployment Modeling	Isailovic, Velibor; Nikolic, Dalibor; Saveljic, Igor; Sakellarios, Antonis; Exarchos, Themis P.; Filipovic, Nenad

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454	2	Material Viscosity Prediction under Normal Swallowing Conditions Via High Resolution Cervical Auscultation	Moritz, Adam; Khalifa, Yassin; Sejdic, Ervin
461	2	Bayesian Additive Regression Trees for One-Year Mortality Prediction of Patients Admitted to an Intensive Care Unit with a Sepsis Diagnostic	García-Gallo, Javier E.; Fonseca-Ruiz, Nelson J.; Celi, Leo Anthony; Duitama-Muñoz, John F.
467	2	Quantization Algorithms in Wireless Interactive Services for Digital Video Broadcasting (DVB) and Its Significance in Medical Telematics Applications	Kardaras, Kostas; Lambrou, George I.; Anastasiou, Athanasios; Koutsouris, Dimitrios

Monday
Poster Session 1: 18:15 - 20:15
Tuesday
Poster Session 2: 19:30 - 20:30