

## BHI Sessions

**ALL SPEAKERS WILL HAVE 10 MINUTES TO PRESENT THEIR PAPERS AND THEN PARTICIPATE IN A HALF HOUR PANEL DISCUSSION**

Paper #	Session	Title	Authors
		<b>Session 1: Intelligent Sensing Informatics</b>	
313	1	Ssvep Recognition Using Discriminative Score Fusion and Transformation for Portable Brain	Dehzangi, Omid; Farooq, Muhamed
295	1	Phase-Based Cortico-Cortical Connectivity Mapping in Motor Cortex of Nonhuman Primate	Patil, Reena; Iseri, Ege; Zanos, Stavros; Fetz, Eberhard; Ozturk, Yusuf
48	1	Multi-Modal Driver Drowsiness Detection: A Feasibility Study	Lemkaddem, Alia; Delgado-Gonzalo, Ricard; Türetken, Engin; Dasen, Stephan; Moser, Virginie; Gressum, Carl; Sola, Josep; Ferrario, Damien; Verjus, Christophe
140	1	A Wearable Monitoring System for At-Home Stroke Rehabilitation Exercises: A Preliminary Study	Jung, Hee-Tae; JOON WOO, PARK; jeong jugyeong, jeong jugyeong; ryu, taekyeong; KIM, YANGSOO; Lee, Sunghoon Ivan
238	1	Activity and Circadian Rhythm of Sepsis Patients in the Intensive Care Unit	Davoudi, Anis; Corbett, Duane B.; Ozrazgat-Baslanti, Tezcan; bihorac, azra; Brakenridge, Scott C.; Manini, Todd M.; Rashidi, ParisaDavoudi, Anis; Corbett, Duane B.; Ozrazgat-Baslanti, Tezcan; bihorac, azra; Brakenridge, Scott C.; Manini, Todd M.; Rashidi, Parisa
240	1	Monitoring and Evaluation of Ingestive Activities	Hassan, Eman Ayman; Elmahdy, Mohamed S.; Morsy, Ahmed
		<b>Session 2: Intelligent Sensing and Imaging Informatics</b>	

300	2	Non-Contact Measurements of Diaphragm Electromyogram, Electrocardiogram and Respiratory Variations with Sheet-Type Fabric Electrodes for Neonatal Monitoring	Uesawa, Hayato; Takehara, Tomoya; Ueno, Akinori
267	2	Spatially-Resolved Estimation of Personal Dosage of Airborne Particulates for Ambulatory Subjects Using Wearable Sensors	Arvind, D K
184	2	Severity Classification of Obstructive Sleep Apnea Using Only Heart Rate Variability Measures	Rahman, Md Juber; Mahajan, Ruhi; Morshed, Bashir
76	2	Assessment of Gait Normality Using a Depth Camera and Mirrors	Nguyen, Trong Nguyen; Huynh, Huu Hung; Meunier, Jean
195	2	Behavioral Analysis of Turbulent Exhale Flows	Transue, Shane; Reza, Sayed Mohsin; Halbower, Ann; Choi, Min-Hyung
224	2	Incremental Diagnostic Information Obtained Via Novel Dynamic Contrast Enhanced MRI Framework Applied on Multiple Sclerosis Patients: A Preliminary Study	Kontopodis, Eleftherios; Manikis, Georgios; Nikiforaki, Katerina; Venianaki, Maria; Marias, Kostas; Maris, Thomas; Karantanas, Apostolos; Papadaki, Efrosini
		<b>Session 3: Bioinformatics for Health Monitoring</b>	
292	3	Generating Target/non-Target Images of an RSVP Experiment from Brain Signals in by Conditional Generative Adversarial Network	Lee, Yonggun; Huang, Yufei
182	3	Identifying Patient-Specific Trajectories in Haemodialysis Using Bayesian Hierarchical Gaussian Processes	Zhu, Tingting; Colopy, Glen Wright; Pugh, Christopher; Clifton, David
137	3	Energy-Efficient Multipath Ring Network for Heterogeneous Clustered Neuronal Arrays	Ardelean, Andrei; Zjajo, Amir; Kumar, Sumeet Susheel; van leuken, Rene
242	3	Computational Analysis of Gefitinib and Methylated-Hydroxypropylated Cyclodextrin Inclusion	Hatziagapiou, Kyriaki; Braoudaki, Maria; Bethanis, Kostas; Yannakopoulou, Konstantina; Anastasiou, Athanasios; Koutsouri, Georgia; Koutsouris, Dimitrios; Lambrou, George I.

277	3	Cloud-Based Solution for Improving Usability and Interactivity of Metagenomic Ensemble	Alaa, Asem; Metwally, Ahmed
250	3	Longitudinal Gender-Specific Differences in the Conversion from Mild Cognitive Impairment to Alzheimer's Disease	Cadena-Hernandez, Angel Guillermo; Trejo-Castro, Alejandro Ismael; Celaya-Padilla, José María; Tamez-Peña, Jose Gerardo; Martinez-Torteya, Antonio
		<b>Session 4: Deep Learning and Decision Support Systems</b>	
86	4	A Novel Channel-aware Attention Framework for Multi-channel EEG Seizure Detection via Multi-view Deep Learning	Yuan, Ye; Xun, Guangxu; Ma, Fenglong; Suo, Qiuling; Xue, Hongfei; Jia, Kebin; Zhang, Aidong
143	4	P-QRS-T Localization in ECG Using Deep Learning	Abrishami, Hedayat; Campbell, Matthew; Han, Chia; Czosek, Richard; Zhou, Xuefu; Zhou, Xuefu
154	4	DeepVoice: A Voiceprint-based Mobile Health Framework for Parkinson's Disease Identification	Zhang, Hanbin; Wang, Aosen; Li, Dongmei; Xu, Wenyao
259	4	Coarse-To-Fine Multi-Task Training of Convolutional Neural Networks for Automated Information Extraction from Cancer Pathology Reports	Alawad, Mohammed; Yoon, Hong-Jun; Tourassi, Georgia
59	4	Deep Learning from Electronic Medical Records Using Attention-Based Cross-Modal Convolutional Neural Networks	Cheung, Bing Leung Patrick; Dahl, Deborah
134	4	Mortality Prediction with Self Normalizing Neural Networks in Intensive Care Unit Patients	Mohammed, Abdul Hai Zahid; Lee, Joon
		<b>Session 5: Personalized Health Systems &amp; Public Health Informatics</b>	
228	5	PDCA: An Ehealth Service for the Management of Drug Interactions with Complementary and Alternative Medicines	Spanakis, Marios; Sfakianakis, Stelios; Spanakis, Emmanouil G.; Kallergis, George; Sakkalis, Vangelis
232	5	An Investigation of Proteomic Data for Application in Precision Medicine	Matlock, Kevin; Dhruva, Saugato Rahman; Nazir, Moazzam; Pal, Ranadip

165	5	Quantification of Biological Responses as Predictors of Cognitive Outcome after Developmental TBI	Sargolzaei, Saman; Cai, Yan; Lee, Deborah; Harris, Neil G; Giza, Christopher
90	5	Obesity Risk Factors Ranking Using Multi-Task Learning	Wang, Lu; Zhu, Dongxiao; Towner, Elizabeth; Dong, Ming
155	5	CASSIA: An Assistant for Identifying Clinically and Statistically Significant Decreases in Antimicrobial Susceptibility	Tlachac, Monica; Rundensteiner, Elke; Barton, Kerri; Troppy, Scott; Beaulac, Kirthana; Doron, Shira; Zou, Jian
298	5	Leveraging Blockchain for Retraining Deep Learning Architecture in Patient-Specific Arrhythmia Classification	Marefat, Michael; Juneja, Amit
		<b>Session 6: Behavioral Informatics &amp; Health Factors Engineering</b>	
197	6	Detecting Suppression of Negative Emotion by Time Series Change of Cerebral Blood Flow Using Fnirs	Honda, Masahiro; Tanaka, Hiroki; Sakriani, Sakti; Satoshi, Nakamura
264	6	Sensing-Fi: Wi-Fi CSI and Accelerometer Fusion System for Fall Detection	Xiao, Yubin; Ramezani, Ramin; Naeim, Arash
307	6	Evaluation of Head Pose Features for Stress Detection and Classification	Giannakakis, Giorgos; Manousos, Dimitris; Chaniotakis, Vaggelis; Tsiknakis, Manolis
183	6	Wearable Sensors and Machine Learning Diagnose Anxiety and Depression in Young Children	McGinnis, Ryan S.; McGinnis, Ellen; Hruschak, Jessica; Lopez-Duran, Nestor; Fitzgerald, Kate; Rosenblum, Katherine L.; Muzik, MariaChildren
279	6	Toward Personalized Sleep-Wake Prediction from Actigraphy	Khademi, Aria; El-Manzalawy, Yasser; Buxton, Orfeu; Honavar, Vasant
42	6	Leveraging Health and Wellness Platforms to Understand Childhood Obesity: A Usability Pilot of FitSpace	Feldman, Keith; Duarte Ow, Mayra; Mikels-Carrasco, Waldo; Chawla, Nitesh
		<b>Session 7: Wearable Systems &amp; Mobile Health</b>	
50	7	Physiological Changes Over the Course of Cognitive Bias Modification for Social Anxiety	Boukhechba, Mehdi; Gong, Jiaqi; Kowsari, Kamran; Ameko, Mawulolo; Fua, Karl; Chow, Philip; Huang, Yu; Teachman, Bethany; Barnes, Laura

294	7	Context-Aware Reinforcement Learning-Based Mobile Cloud Computing for Telemonitoring	Wang, Xiaoliang; Wang, Wei; Jin, Zhanpeng
66	7	ARIMA-Based Motor Anomaly Detection in Schizophrenia Inpatients	Tron, Talia; Resheff, Yehezkel; Bazhmin, Mikhail; Weinshall, Daphna; Peled, Abraham
116	7	Cluster-Based Approach to Improve Affect Recognition from Passively Sensed Data	Ameko, Mawulolo; Cai, Lihua; Boukhechba, Mehdi; Daros, Alexander; Chow, Philip; Teachman, Bethany; Gerber, Matthew; Barnes, Laura
120	7	Comparison and Combination of Electrocardiogram, Electromyogram and Accelerometry for Tonic-Clonic Seizure Detection in Children	De Cooman, Thomas; Varon, Carolina; Van de Vel, Anouk; Ceulemans, Berten; Lagae, Lieven; Van Huffel, Sabine
254	7	Deep Learning Based Atrial Fibrillation Detection Using Wearable Photoplethysmography Sensor	ALIAMIRI, ALIREZA; Shen, Yichen
		<b>Monday:</b>	
		Session 1- 9:35-11:05 Intelligent Sensing Informatics	
		Session 2- 11:20-12:50 Intelligent Sensing and Imaging Informatics	
		<b>Tuesday:</b>	
		Session 3: 11:10-12:40 Bioinformatics for Health Monitoring	
		Session 4- 14:15-15:45 Deep Learning and Decision Support Systems	
		<b>Wednesday:</b>	
		Session 5- 8:50-10:20 Personalized Health Systems & Public Health Informatics	

	Session 6- 13:15-14:45 Behavioral Informatics & Health Factors Engineering	
	Session 7- 16:25-17:55 Wearable Systems & Mobile Health	