Corresponding Author	Paper Title	Board Assignment Number - Wednesday
70118, 70118	Semantic Segmentation of Microengineered Neural Tissues	
	Investigations on the Functional Connectivity Disruptive Patterns of Progressive Neurodegenerative	
A, Kavitha	Disorders	
	Automatic Assessment of 3D Coronary Artery Distensibility from Time-Resolved Coronary CT	
Abd-Elmoniem, Khaled	Angiography	7
	Development and Evaluation of a Customized Wrist-Hand Orthosis Using 3D Technology for a Child	
Abreu de Souza, Mauren	with Cerebral Palsy - a Case Study	4
Aizawa, Yoshiki	Neural Processing of Octave Illusion Revealed by Frequency Tagging	
Akita, Shingo	Detection of Rapid Mouses Scratching Behavior Based on Shape and Motion Features	
	Inhibition of Protein Aggregation by Small Molecules: Experimental and Molecular Docking	
Al Adem, Kenana	Approaches	7
Alaa Asam	Dratein Subsellular Legalization Dradiction Pased on Internal Micro Similarities of Markou Chains	3
Alaa, Asem	Protein Subcellular Localization Prediction Based on Internal Micro-Similarities of Markov Chains Multiple-Instance Learning for Sparse Behavior Modeling from Wearables: Toward Dementia-Related	`
Alam, Ridwan	Agitation Prediction	5
Alaili, Niuwali	Identifying Optimal Features from Heart Rate Variability for Early Detection of Sepsis in Pediatric	·
Amiri, Paria	Intensive Care	3
Amores Fernandez, Judith	An Exploration of Form Factors for Sleep-Olfactory Interfaces	
Amores remandez, Juditii	Assessment of Data Augmentation Strategies Toward Performance Improvement of Abnormality	
Antani, Sameer	Classification in Chest Radiographs	
Antonacci, Yuri	Estimation of Brain Connectivity through Artificial Neural Networks	
Anwar, Syed	Classification of Perceived Human Stress Using Physiological Signals	
rantar, sycu	Emotion Classification in Response to Tactile Enhanced Multimedia Using Frequency Domain Features	·
	of Brain Signals	
Anwarul, Hasan	Growth Factor Releasing Core-Shell Polymeric Scaffolds for Tissue Engineering Applications	
Aoki, Hirooki	Assessment of Non-Contact Respiration During Pedaling Motion Using RealSense	
	Toward the Development of a System That Facilitates Continuous Exercise for Middle-Aged and	
Arai, Ryota	Elderly People	
· •	Design of an Electrocardiogram Measurement System Using a Capacitively Coupled Electrode Array	
Arima, Yuto	Capable of Posture Tracking	
Asami, Nao	Evaluation of Auditory Information Processing Using a Dichotic Listening Test with Frequency Tagging	
	Kernel-Based Reconstruction of C-11-Hydroxyephedrine Cardiac PET Images of the Sympathetic	
ashouri, zahra	Nervous System	
Azocar, Alejandro	Passive Knee Exoskeleton Reduces Quadriceps Muscle Activation During Downhill Skiing: A Pilot Study	7
B., Smitha	Analysis of Carotid Plaque Using Multifractal Method in Ultrasound Images	
Baba, Kazutomo	Long-term safety of the carbon fiber as an implant scaffold material	4
	A Scalable Random Access Membrane Displacement Traps Array for Selective Capture and Release of	
Babahosseini, Hesam	Individual Droplets	4
	A Simple and Stable Load Control Algorithm for Time-Varying Harvested Energy in Miniaturized	
Bae, ChiSung	Implantable Devices	
D-1- 84: 84:	Vitala Acciet. A Hashilita. Canada con mallaciala Annilication de Barata e Vitala Circuita Anna Con Cont	
Baig, Mirza Mansoor	VitalsAssist: A Usability Study on mHealth Application to Monitor Vital Signs in Acute Care Settings Characterization of Physicians Workland in a Reference Center for the Treatment of Thrombetic and	7
Palastra Cabriella	Characterization of Physicians Workload in a Reference Center for the Treatment of Thrombotic and	
Balestra, Gabriella	Bleeding Disorders	
Bargiotas, Ioannis	Predicting Future Falls of Parkinsonians Using Posturography and Random Forest	•

Bargsten, Lennart	Data Representations for Segmentation of Vascular Structures Using Convolutional Neural Networks with U-Net Architecture	290
Barriga-Rivera, Alejandro	Low-Cost System for Experimental Manometry	221
Baucum, Matthew	Forecasting of Disease Progression: Hidden Markov Models vs. Recurrent Neural Networks	222
Beier, Susann	A Multi-Objective Optimisation of Stent Geometries	223
Berg, Philipp	Unsuccessful Flow-Diverter Treatment of Intracranial Aneurysms - an Academic In-Silico Study	224
Berson, Eric	Non-Invasive Assessment of Coronary Stenosis using Mean Age Theory	225
Bise, Ryoma	Scribbles for Metric Learning in Histological Image Segmentation	223
Bizopoulos, Paschalis	Signal2Image Modules in Deep Neural Networks for EEG Classification	427
	Multimodal Colon Cancer Imaging Database for Disease Modeling	226
Bocchi, Leonardo		220
Prottoin Louro	Deep Learning-Based Automatic Endometrium Segmentation and Thickness Measurement for 2D	207
Brattain, Laura	Transvaginal Ultrasound	292
Budda Vai	Requirements for Documenting Electrical Cell Stimulation Experiments for Replicability and Numerical	47/
Budde, Kai	Modeling In Vitro Overhitisation of Lasteta in Phasehata Buffer Salina (DDS) Samulas	470
Budidha, Karthik	In Vitro Quantification of Lactate in Phosphate Buffer Saline (PBS) Samples	333
Bujnowski, Adam	Respiratory Signal of Bathing Person - Preliminary Study	334
	LSTMs and Neural Attention Models for Blood Glucose Prediction: Comparative Experiments on Real	424
Bunescu, Razvan	and Synthetic Data	428
	Application of a Decision Tree Algorithm to Predict the Rehabilitation Duration of Gait-Related	
Caldas, Rafael	Dysfunctions: A Proof of Concept	227
Cano-Garcia, Helena	Dielectric Permittivity of Human Blood of Different Lactate Levels Measured at Millimeter Waves	335
	A New Formula for the Estimation of Meal Insulin-Bolus in Type 1 Diabetes Therapy Accounting for	
Cappon, Giacomo	Glucose Rate of Change	228
Cardarelli, Stefano	UKF Magnetometer-Free Sensor Fusion for Pelvis Pose Estimation During Treadmill Walking	336
Carone Fabiani, Filippo	Time Delays in Higher Language Areas During Language Activities	229
Carrillo de Gea, Juan Manuel	Improving Accessibility for People with Disabilities: A Case Study on Inclusive Beach Tourism	398
	Using Ensemble Classification Methods in Lung Cancer Disease	397
	Physical Activity Based Classification of Serious Mental Illness Group Participants in the UK Biobank	
Casson, Alexander James	Using Ensemble Dense Neural Networks	337
Catalán Orts, José María	Next-Generation Wheelchairs Will Incorporate Brain-Controlled Exoskeleton Robotic Arms	230
	On the Use of Linear-Modelling-Based Algorithms for Physiological Noise Correction in fMRI Studies of	
Cauzzo, Simone	the Central Breathing Control	293
Cecotti, Hubert	A Multiscript Gaze-Based Assistive Virtual Keyboard	371
Cerone, Giacinto Luigi	Comparison between Four Devices for Focal Muscle Vibration	231
Chang, Yunhee	Measurement of Energy Expenditure According to Changes in Wheelchair Driving Speed for SCI	232
	Biomechanical Evaluation of the Patient with Hallux Valgus Wearing Three-Dimensional Printed	
Chen, Chen-Sheng	Orthosis	233
Chen, Gengbo	Obstructive Sleep Apnea Detection in General Population	234
	A Wearable Daily Respiration Monitoring System Using PDMS-Graphene Compound Tensile Sensor for	
Chen, Wei	Adult	338
	Nanoswimmer-Oriented Direct Targeting Strategy Inspired by Momentum-Based Gradient	
Chen, Yifan	Optimization	429
	Development of a Handheld Instrument with O-Phthalaladehyde Sensor Strip for Concentration	
Cheng, Tzong-Jih	Verification of Clinical Disinfectant	235
	Hidden Object Test [HOT] : A Memory Test That Can Detect Early Stage Dementia Using Virtual Reality	
Choi, Jongdoo	Technology	236
	Virtual Hand Rehabilitation with Force Guidance Adaptable to Mental States using Brain-Computer	
Choi. Kup-Sze	Interface	237

Chamanda Januar	Nutrition Adherence in Critically III Patients; How Is Nutritional Intake within the 1st Week of	2-
Chouvarda, Ioanna	Hospitalization Affecting the Patients Outcome?	37
Chriskos, Panteleimon	SmartHypnos: Developing a Toolbox for Polysomnographic Data Visualization and Analysis	37
Chung, Sung-Taek	Analysis of EEG Signal Changes During Attention Training Game Contents	15
0 11 0 0 1	VR-Based Multiplayer Game Contents for Upper Limb Rehabilitation	15
Coelho Borges, Renata	Design Guidelines for Feedforward Cancellation of the Occlusion-Effect in Hearing Aids	43
Cohen-McFarlane, Madison	Comparison of Silence Removal Methods for the Identification of Audio Cough Events	33
Davila, Carlos	Subspace Averaging of Auditory Evoked Potentials	43
de Carvalho, Paulo	Software Code Complexity Assessment Using EEG Features	37
D. 15. 61	A Model Predictive Control Algorithm for Joint Insulin Infusion and Carbohydrates Intake Suggestion	41
Del Favero, Simone	in Type 1 Diabetes	15
	Linear Data-Driven Models for Real-Time Prediction of Hypo/hyperglycemic Events Using Continuous	
5	Glucose Sensor Data Only	16
Doi, Kouki	Dot Code Activation Area for Braille-To-Voice Function in Braille Learning Materials	16
	Effect of Slider Thumb/Finger Movement Ratio on Drag Operability of Slider in Touch Screen	16
	Design and Characterisation of a Graphene-Based FET for Ultrasensitive Detection of Clinical	
Dong, Tao	Biomarkers	34
Doniec, Rafal	Recognition of Basic Driving Scenarios	23
	A Diffusion Gradient Generator to Maintain Stable Concentration Gradients within Agarose and/or	
Dravid, Anusha	Agarose-Collagen Scaffolds	23
Duda, Niklas	Wireless Sensor Platform for Detection of Vital Parameters of Bats	34
Duggento, Andrea	A Random Initialization Deep Neural Network for Discriminating Malignant Breast Cancer Lesions	29
- 388-332, 331-332	Connectivity Assessment in the Human Temporal Lobe by Cortico-Cortical Evoked Potentials and	
Dümpelmann, Matthias	Granger Causality	24
E. C. Silva, Samuel	Trilhar - the Mobile App for Speech Therapy Support	24
,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	A Pilot Study of Predicting CPAP Adherence Based on the Statistical Values of Previous CPAP Usage	
Eguchi, Kana	Duration and Related Parameters	24
El hadji, Sara	Brain-Vascular Segmentation for SEEG Planning Via a 3D Fully-Convolutional Neural Network	29
EL SAYED HUSSEIN JOMAA, Mo	A New Mutual Information Measure to Estimate Functional Connectivity: Preliminary Study	43
,	Learning Clusters in Autism Spectrum Disorder: Image-Based Clustering of Eye-Tracking Scanpaths	
Elbattah, Mahmoud	with Deep Autoencoder	37
	High-Throughput Magnetic Actuation Platform to Induce Biomimetic Mechanical Cues on 3D Cell	
Enriquez, Angel	Culture	24
amagara gar	A Novel Filter for Tracking Real-World Cognitive Stress Using Multi-Time-Scale Point Process	
Faghih, Rose T.	Observations	39
, ,	Tonic and Phasic Decomposition of Skin Conductance Data: A Generalized-Cross-Validation-Based	
	Block Coordinate Descent Approach	40
Fang, Wai-Chi	A SOC Design of ORICA-Based Highly Effective Real-Time Multi-Channel EEG System	43
	Monitoring and Modulating the Gastrointestinal Activity: A Wirelessly Programmable System with	
Farajidavar, Aydin	Impedance Measurement Capability	34
Farooqi, Abdul Razzaq	Numerical Simulation of Electro-Active Hydrogels to Be Used for Cartilage Tissue Engineering	24
Feng, Mengling	Continuous ECG Monitoring Trial for Outpatient Patient Receptiveness and Signal Accuracy	40
	Understanding Deep Convolutional Networks for Biomedical Imaging: A Tutorial	40
Fernandes, Beatriz	Pilot Study on Fibrin for Chronic Wound Healing	47
Ferrera, Conrado	Study of the Influence of a Segmentation Threshold in the FFRCT	24
Foo, Ming Jeat	Application of Signed Distance Function Neural Network in Real-Time Feet Tracking	34
Fotiadis, Dimitrios I.	Computational Evaluation of Suspended Microcantilever and Microfluidic Channel	40
	InSile: An in Siling Clinical Trials Cloud Platform for Bioresorbable Vascular Scaffolds	40

	KardiaSoft Architecture a Software Supporting Diagnosis and Therapy Monitoring of Heart Failure	
Fotiadis, Dimitrios I.	Patients Exploiting Saliva Biomarkers	404
Friedrich, Christoph M.	A Comparative Evaluation of SteamVR Tracking and the OptiTrack System for Medical Device Tracking	407
	Variations on Branding with Text Occurrence for Optimized Body Parts Classification	406
Froese, Vera	A New Device to Predict the Evolution of Antibiotic Resistance	246
Fujiwara, Daichi	Development of a Motion Improvement Support System for Baton Twirling Players	247
Fukuda, Keiko	Evaluation of Experimental Task with fMRI Measurement for Applying NIRS Measurement	248
	Deep CNN with LM Learning Based Myocardial Ischemia Detection in Cardiac Magnetic Resonance	
Ganesan, Kavitha	Images	296
Garcia-Garcia, Martha G.	Neuron-Type Utility in a Brain-Machine Interface	249

Ghadam Soltani, Elias	Human Upper Limb Heat Transfer: Effect of Geometry	164
•	Human Upper Limb Heat Transfer: Effect of Thermal Properties	16:
	Recurrence Quantification Analysis Applied to Cardiac and Respiratory Signals of Patients on Weaning	
Giraldo, Beatriz	Process	25
	Deep Learning Based Sub-Retinal Fluid Segmentation in Central Serous Chorioretinopathy Optical	
Girish, GN	Coherence Tomography Scans	29
Gonzalez Diaz, Hector Andres	EEG-Based Emotion Detection Using Unsupervised Transfer Learning	43
Goulart, Leonardo	App to Measure the Degree of Patient Satisfaction in the Clinical Dentistry School of UFRN	25
Greene, Patrick	A Novel Approach to Quantification of Mental Effort	25
Greenspan, Hayit K.	Improving CNN Training Using Disentanglement for Liver Lesion Classification in CT	29
Gryak, Jonathan	Diabetic Wound Segmentation Using Convolutional Neural Networks	29
Guan, Cuntai	Exploring Cortex Connectivity Signal in Sensory Response to Odors	34
	The Effect of Additional Cognitive Tasks on Balance in the Eelderly :A Preliminary GFT-fMRI	
Guo, Wenyu	Study	253
Gutierrez Nuno, Rafael Angel	A Phase Lag Index Hardware Calculation for Real-Time Electroencephalography Studies	435
	A Feature Ranking and Selection Algorithm for Brain Tumor Segmentation in Multi-Spectral Magnetic	
Gyorfi, Agnes	Resonance Image Data	30
Hajian, Gelareh	An Investigation of Dimensionality Reduction Techniques for EMG-Based Force Estimation	40
	PCA-Based Channel Selection in High-Density EMG for Improving Force Estimation	409
	OpenArm 2.0: Automated Segmentation of 3D Tissue Structures for Multi-Subject Study of Muscle	
Hallock, Laura	Deformation Dynamics	30
Hamad, Eyad	Investigation of Bifurcation Effect on Various Microfluidic Designs for Blood Separation	41
	Sensitivity Enhancement of Point-Of-Care for Cardiac Markers Detection Using Micro-Impedimetric	
	Immunosensor Arrays	41:
Hametner, Bernhard	Determination of Ejection Duration Based on a Finger Pulse Waveform: Methodology and Feasibility	9
,	Estimation of 8-Electrode Configuration for Recognition of Uterine Contraction with	
Hao, Dongmei	Electrohysterogram	430
,	Forearm Is a Suitable Part of Exerciser for a Wireless Vital Sensor Node in Terms of Accurate Vital	
Hara, Shinsuke	Sensing and Reliable Data Transmission	10
He, Huiguang	EEG-Based Emotion Recognition with Prototype-Based Data Representation	41:
, · · · · · ·	EEG-Based Emotion Recognition with Similarity Learning Network	413
Heker, Michal	Hierarchical Fine-Tuning for Joint Liver Lesion Segmentation and Lesion Classification in CT	302
	Precise Heart Rate Measurement Using Non-Contact Doppler Radar Assisted by Machine-Learning-	
Higashi, Kotaro	Based Sleep Posture Estimation	433
Higuchi, Masakazu	Effectiveness of Voice Biomarker in Detecting Bipolar Disorder	1:
Hiromatsu, Ryosuke	Novel CA-CFAR Approach for Improvement of Doppler Sensor-Based Heart Rate Variability Estimation	438
Hoffmann, Klaus-Peter	Technical, Medical and Ethical Challenges in Networks of Smart Active Implants	490
Hofmann, Stephan	Biosensor for Rapid Detection of Influenza with High Sensitivity	1:
Hori, Junichi	Classification of Motor-Imagery EEG Considering Task Complexity	1:
	Identification System for Surgical Instruments on Metal Tray Using UHF Band RFID and Low-Intensity	
HOSAKA, Ryosuke	Antennae	1
Hosseini, Saeed	Numerical Investigation of the Heat Transfer Effects of Ingestion of Cold Water after a Hot Meal	1!
i iosseiili, saeeu		1
HOVEAND Philip	A Paced QRS Detector for Automatic Identification of Catheter Ablation Targets in Ventricular	1
HOYLAND, Philip	Arrhythmias Valuma Vigualization for Improving CT Lung Nedula Detection	10 30
Huang, Adam	Volume Visualization for Improving CT Lung Nodule Detection The Interference of Cognitive Motor Dual Task on Walking Speed and Brain Activity in Young Adults:	30.
huang vin	The Interference of Cognitive-Motor Dual-Task on Walking Speed and Brain Activity in Young Adults:	4.
huang, xin	3D Motion Analysis-fNIRS Study	17

Hwang, Han-Jeong	An Optimal Re-Referencing Method for Ear-EEG-Based Endogenous Brain Computer Interfaces	16
	Onset Detection of a Hybrid EEG-NIRS Brain-Computer Interface	16
berite, Federica	Influence of Substrate Stiffness on Human Induced Pluripotent Stem Cells: Preliminary Results	47
chikawa, Kenta	Development of an Electrostatic Oral Cavity Generator Driven by Occlusal Force	34
les Chana Iliuan	Adaptive Neuro-Learning: A New Education Strategy Using EEG-Based Passive Brain-Computer	10
lm, Chang-Hwan	Interfaces Comparison of Visual Stimuli for Stoody State Visual Evoked Retential Recod BrainComputer	16
	Comparison of Visual Stimuli for Steady-State Visual Evoked Potential-Based BrainComputer	17
	Interfaces in VR Environment in Terms of Classification Accuracy and Visual Comfort	1/
	Development of an Online Home Appliance Control System Using Augmented Reality and an SSVEP Based Brain-Computer Interface	16
	Performance Enhancement of Near-Infrared Spectroscopy-Based Brain-Computer Interfaces Using	10
	Transcranial Near-Infrared Photobiomodulation of Prefrontal Cortex	16
	Development of a Wireless Tactile Measurement System for Quantitative Sensory Testing in Plantar	10
Ino, Shuichi	Skin	1
no, shalem	Development of Evaluation System for Von Willebrand Factor Degradation by Mechanical Stress of	-
noue, Yusuke	Blood Pump	1
sezaki, Takashi	Transition Characteristics Analysis of Muscle Activity Patterns for Firefighters	2
sczaki, rakasiii	Investigation of Regression Model by Multivariate Regression Analysis to Relate Answers of the	
	Japanese Orthopaedic Association Back Pain Evaluation Questionnaire (JOABPEQ) and Physical	
shitani, Hayato	Findings	2
AESOO, HONG	CLASSIFICATION OF THE ELDEERLYS ADL(ACTIVITIES OF DAILY LIVING) USING IMU SENSOR	2
ALLOGO, HONG	Chashie that of the Education Application and a state of the state of	-
IAMIN, Antoine	A Novel Multiscale Cross-Entropy Method Applied to Navigation Data Acquired with a Bike Simulator	43
ang, Won Ick	Development of the Sensing and Monitoring System for Obstructive Sleep Apnea Diagnosis	2
leong, Chang Won	Analysis and Classification of Urinary Stones Based on Radiology_CDM for Machine Learning	2
leong, Hyunbeen	Electrode Design on Plastic Substrates Using Laser Patterned Double-Sided Tape and Gold Leaf	34
lia, Xiaofeng	Effects of Hydrogel-Fiber on Cystic Cavity after Spinal Cord Injury	47
,	Deep Learning Algorithm for Preterm Birth Monitoring Using STFT Images of Segmented Uterine EHG	
lo, Young Chang	Data	2
loão, F. Teixeira	Automatic Sternum Segmentation in Thoracic MRI	30
·	Evaluation of a Mental Care System for Patients Recuperating in a Sterile Room after Hematopoietic	
loko, Shiho	Cell Transplantation	37
lovicic, Ivana	Evaluation of Real Time Catheter Tissue Contact Using Unipolar Intracardiac Signal Morphology	2
uan, Carlos G.	Portable Device Based on Microwave Resonator for Noninvasive Blood Glucose Monitoring	34
	A Study on the Facial Temperature Variations of the Elderly by the Emotional State Induced During	
IUNG, DUK YOUNG	Video Watching	2
	Methodology for Assessing End-User Requirements in the Ella4Life Project: Elders Perspectives about	
Kaczmarek, Mariusz	Self-Monitoring	37
Van Chung Dann	Using On-Demand, Multi-Sensor Wearable 3D-Printed Medical Device for Hemodialysis Patient Care	2
Kan, Chung-Dann		2
Vang lungeun	A Comparison between Measured Values and Estimated Values of Resting Metabolic Rate in Spinal Cord Injured Patients	2
Kang, Jungsun	Lying Posture Analytics Using Convolutional Neural Network from Pressure Distribution Data for	Z
Vang Sooln	Pressure Ulcer Prevention	3
Kang, SooIn		3
Kanoga, Suguru	Feasibility of Detecting Steady-State Visual Evoked Potentials Contaminated by Intensity-Manipulated Muscular Artifacts	3
	Asthma Device Calibrator (ADC)	37
(accem Ahdallah		
Kassem, Abdallah Kawana, Takumi	EEG-Hat with Candle-like Microneedle Electrode	47

Kesavadas, Thenkurussi	Integrating Real Patients Data into Force Simulation	33
Khamis, Heba	Text Field Analysis of Big Data - 14, 000 24hr ECG Recordings	34
Khan, Hassan Aqeel	Skin Lesion Classification Using GAN Based Data Augmentation	305
Kilicarslan, Atilla	Towards a Unified Framework for De-Noising Neural Signals	440
Kim, Do-Won	Possibility of Bone-Conductive Earphones for Electroencephalogram Experiments	35
	A Brief Version of Social Event Memory Test(BSEMT): A Sensitive Cognitive Test That Can Detect Early	
Kim, Eun Ji	Stage Dementia	36
	Comparison of Validity of Blood Pressure Estimation Parameters between Blood Pressure Change	
Kim, Hee Chan	Patterns	37
Kim, Il Kon	Driving Situation Recognition System for Elderly	173
	Implementing Mobile Healthcare Apps through Usability Evaluations from an Elderly Perspective	171
	Performance Comparison of Serialization Libraries Using FHIR Resources	172
Vine Ver Cores	Development of an Owni Directional Introductive Commuted Tomography Heine Message Wheel	26
Kim, Kou Gyeom	Development of an Omni-Directional Intraoperative Computed Tomography Using Mecanum Wheel	38
Wine Barre Corne	Discriminative Model Based on Recurrent Neural Network Architecture for Recognition of Abnormal	4.7.4
Kim, Mun Sang	Gait Patterns	174
	Elderly Care Robot to Recognize and Alert Emergency Situation	176
	Gait Data Collecting and Analyzing System Based on Skeleton Data Obtained by Using Multiple Kinect	175
	Sensors A New J Markit Class Visual Stimuli for Charles Charles Visual Fuels of Batantial Based Bridge Community	1/5
Wine Court Cou	A Novel Multi-Class Visual Stimuli for Steady-State Visual Evoked Potential Based Brain-Computer	20
Kim, Sang-Su	Interfaces	39
Kim, Sung-Phil	EEG Functional Network in Oddball Paradigm: Connectivity Estimation Based on ERP Waveforms	40
, cag	CANet: A Channel Attention Network to Determine Informative Multi-Channel for Image Classification	
Kim, Yangwoo	from Brain Signals	441
, rungiroo	Balanced Adjustable Mirrored Current Source with Common Mode Feedback and Output	
Klum, Michael	Measurement for Bioimpedance Applications	348
Kocejko, Tomasz	Can We Rely on the Pulse Transit Time - Pressure Relationship - Models Comparison	442
Kompella, Gayatri	Segmentation of Femoral Cartilage from Knee Ultrasound Images Using Mask R-CNN	306
	Suppression of Low Beta by the Action Observation Game Program Based BCI(Brain computer	
Ku, Jeonghun	interface) with FES(Functional electrical stimulation)	41
Kulhanek, Tomas	Service for Digital Annotation of Scientific Data	42
,	Analysis of Brain Shift Transformation in Closed Cranium Using MR Volume Images Acquired in	
Kumamoto, Etsuko	Different Body Positions	43
Laczko, Jozsef	Jerk Components Are Dependent on Movement Size During Arm Cranking	44
	Magnetometer-free Realtime Inertial Motion Tracking by Exploitation of Kinematic Constraints in 2-	
Laidig, Daniel	DoF Joints	349
<u> </u>		
LE, THI HUONG	High Throughput Generation of Calcium-Alginate Micro-Particles Using Centrifugal Force-Based Device	45
	Mild Cognitive Impairment Diagnosis Using Extreme Learning Machine Combined with Multivoxel	
Lee, Boreom	Pattern Analysis on Multi-Biomarker Resting-State FMRI	307
Lee, Heung-No	Decentralized Framework for Medical Images Based on Blockchain and Inter Planetary File System	46
	Stretchability Enhancement of Electronics According to Three Shapes of Substrate Fabricated by	
Lee, Ho Jin	Thermal Reflow Process	350
Lee, I-Jung	Manual Dexterity Assessment for Stroke Patients by Using Fuzzy C-Means Clustering Algorithm	47
	A Study of the Frequency Band of Filter for High Accuracy Detection of the R-Peak Wave from Head	
Lee, Jihyoung	Electrocardiogram	48

	Development of a Skin Patch Biophotonic Sensor Using Impedance Elasticity for Simultaneous	
Lee, Jong-Ha	Diagnosis and Treatment of Pressure Ulcers	49
Lee, Jung Keun	Treadmill-To-Overground Mapping of Marker Trajectory for Treadmill-Based Gait Analysis	50
	Automatic Classification of Sleep Stages Based on Convolutional Neural Network Using an	
Lee, Kyoung Joung	Electrocardiogram	17
	Multiclass Classification of Arrhythmia Based on Convolutional Neural Network	178
	Prediction of Susceptible Sites to Plaque Depositions in Coronary Arteries by Using Virtual Stenosis	
Lee, Kyung Eun	Method	51
Lee, Seulki	Nightingale V2: Low-Power Compact-Sized Multi-Sensor Platform for Wearable Health Monitoring	35:
Lee, Soo Hyun	Non-Invasive Ring-Type Electroceuticals for Treatment of Preterm Labor	52
Lee, Yuhyun	A System to Record EEG from Multiple Adult Zebrafish	53
Lenk, Claudia	Coupled Active, Artificial Hair Cells for Enhanced Sound Detection	54
	General Voltage Injection Device for Immunity Test of Active Implantable Neurostimulators to	
Li, Bing	Electromagnetic Fields Over the Frequency Range 16.6Hz to 80MHz	49:
Li, Guanglin	A Characteristic Filtering Method for Pulse Wave Signal Quality Assessment	443
	Deep Learning Based Dosimetry Evaluation at Organs-At-Risk in Esophageal Radiation Treatment	
Li, Teng	Planning	308
	Fading Effect Analysis in Time-Varying Functional Connectivity for AD, MCI and NC Based on Resting	
Li, Tongtong	State fMRI Data	179
	Robust Conditional Granger Causality Analysis	180
Li, Yuan	Gait Analysis Using Stereo Camera in Daily Environment	484
	Machine Learning Algorithms Could Be Used to Detect Postural Control Patterns for Individuals with	
Li, Yumeng	Parkinsons Disease	5!
	Computational Prediction of Cardiac Electromechanical Delay under Normal Sinus Rhythm and	
Lim, Ki Moo	Arrhythmia Conditions	183
	Computational Study to Derive the Stochastic Model for Estimation of Mechanical Behavior During	
	Ventricular Tachyarrhythmia	183
Ling, Sai Ho, Steve	Classification of EEG Motor Imagery Tasks Using Convolution Neural Networks	444
Liu, Yi-Hung	Four-Class MI EEG Complexity Classification for ALS Patients	50
Liu, Zhengxin	Antifungal Plasma Activated Hydrogels	57
	Couette Shearing Device for the Investigation of Shear-Induced Damage of the Primary Hemostasis by	_
Lommel, Michael	Left Ventricular Assist Devices	58
López, Natalia M	Assistive Device for Freezing of Gait Symptoms in Parkinson Patients	59
I 14/-:	Downston was Continuous and Downston for Downst Whomas and Community Miled Discours	309
Lu, Weiguo	Boundary-aware Semi-supervised Deep Learning for Breast Ultrasound Computer-Aided Diagnosis Sex Difference in EEG Functional Connectivity During Sleep Stages and Resting Wake State Based on	303
Luo Vu Vi	Weighted Phase Lag Index	44!
Luo, Yu-Xi	Weighted Filase Log much	44.
Ma, Ting	Automatic Brain Tumor Segmentation Method Based on Modified Convolutional Neural Network	310
Magsood, Hamzah	Anatomically Accurate Brain Phantom for Transcranial Magnetic Stimulation	60
Mahapatra, Arindam Gajendra	A Morphological Way to Remove Baseline and Spike Separation in EEG	440
manapatra, ramaam sajenara		
Majd, Sheereen	Optimization of the Single Emulsion Method for Encapsulation of a Cancer Drug in Nanoparticles	47:
MANGAL, NAVEEN KUMAR	Movement Analysis of Shoulder Musculoskeletal Disorders	6:
Manome, Nobuhito	Identification of Parkinson's Disease from Scarce Data Using Learning Vector Quantization	62
Martinez Madrid, Natividad	Design of ECG Sensor for Fatigue Detection	63
Martinez-Millana, Antonio	Non-Invasive Blood Glucose Sensor: A Feasibility Study	352
Mathew James, Nisanth	EMG Biofeedback Aided Rehabilitation Game for Patients with Oropharyngeal Dysphagia	64

Ī		Changes in Brain Temperature When Applying Thermal Stimulus Measured by Magnetic Resonance	
	Mikami, Kanako	Images	65
Ĺ	Mitsis, Konstantinos	An Ontology-Based Serious Game Design for the Development of Nutrition and Food Literacy Skills	379
Ĺ	Mitsukura, Yasue	Near-Infrared Spectrum Features of Different Water Samples and Temperature Changes	66
		Transcutaneous Energy Transmission System for Ventricular Assist Device with Transmission Distance	
Ĺ	Miura, Daiki	of Two Cm: Analysis of Power Consumption Using Equivalent Circuit	67
Ĺ	Mojena Medina, Dahiana	Detection of Cell Attachment on Interdigitated Electrodes by Means of Impedance Spectroscopy	68
Ĺ	Momose, Keiko	Emotional Modulation of Late Positive Potentials Elicited by Dynamic Facial Expressions	69
		SVD Square-Root Iterated Extended Kalman Filter for Modeling of Epileptic Seizure Count Time Series	
Ĺ	Moontaha, Sidratul	with External Inputs	447
ļ	Moradi Rad, Reza	Predicting Human Embryos' Implantation Outcome from a Single Blastocyst Image	31:
ļ	Morgan, Stephen Peter	Optical Fiber Sensors for Monitoring in Critical Care	353
		Respiration and Pulse Variability Analyses in Patient with Spinal Cord Injury Using a Less-Burden	
ļ	Motoi, Kosuke	Monitoring System in Bed and Its Application to Management of Secretions in Airways	70
ļ	Muhamad, Fadzli	Muscle Force Estimation for Upper Limb Assistive Device for Home Setting	71
ļ	Mukherjee, Devanshu	A Novel Approach towards Human Posture Estimation to Review Lumbar Lordosis	72
ļ	Muramatsu, Dairoku	Pulsation Measurement via Wearable Devices Based on Bioelectromagnetic Responses	73
		Architecture for a Multimodal and Domain-Independent Clinical Decision Support System Software	
ļ	Muro, Naiara	Development Kit	380
ļ	Mwamba, Hervé Mukenya	PANDAS: Paediatric Attention-Deficit/Hyperactivity Disorder Application Software	485
ļ	Nagamatsu, Genki	Non-Contact Cardiac Beat Detection Using Dot-Line Based Oneshot Scanner	74
ļ	Nagarkoti, Amit	Realtime Indoor Workout Analysis Using Machine Learning & Computer Vision	486
ļ	Najafizadeh, Laleh	Eye Gaze-Based Early Intent Prediction Utilizing CNN-LSTM	381
		Pitfall of Heart Rate Variability Analyses for Autonomic Nervous System Activity with	
ļ	Nakamura, Hideo	Photoplethysmography	354
		Relation between Stress Estimated by Voice Analysis and Blood Interleukin-1 Receptor Antagonist in	
ļ	Nakamura, Mitsuteru	High-Intensity Training	75
ļ	Nakayama, koharu	Estimating Active Brain Region of MRI from EEG	76
	Nam, Ki Chang	Comparisons of the Delivery Efficiency of Salbutamol with Jet and Mesh Nebulizer	184
		Enhancement of Nebulization Output Rate for Viscous Solution	187
		Performance Testing Method for Needle Free Injector	186
ŀ	Names Variable	Reduce Error and Update Time of Continuous Cardiac Output	185
	Naruse, Yasushi	A Relation between Error-Related Negativity and Players Skill on TV Game	189 188
ŀ		Lambda Response As an Attention Indicator During Visual Inspection	188
	Nanam Zadah Mahammad Dar	Evolution of Graph Theory in Dynamic Functional Connectivity for Lateralization of Temporal Lobe	4.40
ŀ	Nazem-Zadeh, Mohammad-Rez	Epilepsy Control of the Control of t	448
	Nagahdar Mahammadrara	An End-To-End Deep Learning Pipeline for Emphysema Quantification using Multi-Label Learning	312
ŀ	Negahdar, Mohammadreza Nguyen, Van Du	A Magnetic Cell-Based Theranostic Microrobot for Anticancer Therapy: A Preliminary Study	77
ŀ	Nguyen, van Du	A Wagnetic Cen-based Theranostic Microrobot for Anticancer Therapy, A Freinfiniary Study	, , , ,
	Nishi, Eri	Evaluation of Sucking Ability in Infants by Using a Portable Tongue Movement Detection Device	78
ŀ	Telistili, Eli	Driver Drowsiness Estimation by Parallel Linked Time-Domain CNN with Novel Temporal Measures on	70
	Nishiyuki, Kenta	Eye States	313
ł	yanıy nemu	-1	51.
	Niyonambaza, Shimwe Dominic	A Compact Visible Light Spectrometer for Molecular Detection with Spherical Gold Nanoparticles	476
ĺ	, Shambaza, Shimwe Dollink	Pattern Detection from Seating Pressure Distribution During Wheelchair Motion Using Deep	470
	Noguchi, Hiroshi	Embedded Clustering	314
			31-

l	Nohara, Yasunobu	Bayesian Estimation of Prevalence of Interstitial Pneumonia by Two-Sources Phenotyping Method	79
I	Nothstein, Mark	Automated Stimulus Artefact Removal for the Clinical S1-S2 Pacing Protocol	80
	Novak, Ondrej	Portable Nitric Oxide Generator for Intravascular Catheters	83
	Noyori, Shuhei	An Adaptive Bladder Volume Estimation Model for Wearable Electrical Impedance Measurement	82
		Study of Relationship between Motor Function of Inpatients with Hemiparesis and their Daily Posture	
	Ogasawara, Takayuki	in Rehabilitation Ward	83
	Ogino, Mikito	Multidimensional Scaling Analysis of Natural Sounds for Inducing High Auditory Response Amplitude	84
	Ohata, Tomoyuki	Non-Contact Blood Pressure Measurement Scheme Using Doppler Radar	449
		The Effects of the Angle of an Elbow Joint on the Latency and Duration When Tendon Vibration Evoke	
	Ohshima, Hiroyuki	the Motion Illusion	85
	Oikonomou, Vangelis	Discrimination of SSVEP Responses Using a Kernel Based Approach	450
Ī		Contribution of the Quadriceps Femoris Muscle for Recumbent Bicycle Pedaling, Evaluated by an	
	Oka, Hisao	MMG/EMG Hybrid Transducer	190
		Mechanomyogram and Electromyogram Measurement During Isometric Contraction of a Biceps	
		Brachii Muscle	193
Ī	Omiya, Yasuhiro	An Experiment to Detect Laryngomalacia Using Baby's Crying Voice	86
		Supervision of M.Sc. Theses Using the Writing of a Scientific Article As a Framework to Increase	
	Ortiz-Catalan, Max	Efficiency and Quality of Research Outcomes	393
Ī	Osakada, Yuki	Electrical Impedance Tomography with Planar Electrode Arrangement	87
		Changes in Prefrontal Cortexs EEG Based Functional Connectivity During Laparoscopic Simulation	
	Ozcan, Alpay	Training	88
		A regularized and smoothed General Linear Kalman Filter for more accurate estimation of time-	
	Pagnotta, Mattia Federico	varying directed connectivity	451
	Pan, Qing	Constructing Artificial Microvascular Trees by Generative Adversarial Networks	89
	Panayides, Andreas	eHealth4Ageing: Electronic Health Record for the Elderly	193
l		The Battle of Codecs in the Healthcare Domain: VVC or AV1?	192
l	Park, Hyunjin	Use of Granger Causality from fMRI As a Biomarker for Body Mass Index	90
		Cardiopulmonary Coupling As a New Parameter for Non-Intrusive Sleep Staging Based on	
	Park, Kwang S.	Polyvinylidene Fluoride Sensor	91
		Laparoscopic Renal Denervation As a Novel Therapeutic Approach of Resistant Hypertension:	
l	Park, Sung-Min	Simulation and Safety Validation	92
l	Parvaneh, Saman	Monitoring of Patient Blanket Coverage Using 3D Camera Data	315
l	Paskaranandavadivel, Nirancha	Quantification of Dynamic Gastric Slow Wave Activity Using Recurrence Plots	452
		Age Related Correlation of Short-Term RR Interval Means and HRV Measures Based on Holter Data in	
Į	Peng, Yi	Normal People	93
Į	Pereira da Cunha, Ana Julia	Odontofile Application for Personalized Treatment in Oral Health	94
		Presence of Atrial and Ventricular Extrasystoles During Intervals of Moderate Physical Activity in	
Į	Pérez López, Nancy Gabriela	Healthy Subjects	95
		Using Linear and Non-Linear Acoustic Parameters to Assess Vocal Status after Phonomicrosurgery in	
Į	Perez, Carlos J.	Reinkes Edema	96
Į	Perez-Buitrago, Sandra	Azopolymer Based Nanoparticles for Phototriggered Drug Delivery	477
		Automatic Classification of Alzheimer's Disease Based on CPD Brain Point Cloud Registration for	
Į	Perez-Gonzalez, Jorge	Feature Extraction	316
		Heat Generation of Magnetic Nanoparticles Vibrated by Alternative Magnetic Field for Targeted Drug	
Į	Phan, Huu Lam	Release	97
Į	Pini, Nicolò	Cluster Analysis of Alcohol Consumption During Pregnancy in the Safe Passage Study	382
	Pino. Esteban J	Wireless Low-Cost Bioimpedance Measurement Device for Lung Capacity Screening	35!

I	Pok, Gouchol	Distance-Preserving Speech Visualization for the Hearing Impaired	98
		Preliminary Investigation on 3D-Printed Ti6Al4V Scaffolds with a Bioactive and Electrically Conductive	
	Polley, Christian	Polymer Coating	99
	Pronina, Anna	Gaze and Attention Shifts as the Source of Human Error in P300 BCI: A Pilot Study	100
	Puttaswamy, Srinivasu Valagera	Smart Maltose Microneedle for Blood Sampling Fabricated by Stepwise Controlled Drawing	101
	Puxeddu, Maria Grazia	The Optimal Setting for Multilayer Modularity Optimization in Multilayer Brain Networks	453
	Qin, Yajie	The Optimization of Analog Front-End for Fully Integrated Wearable Sweat Sensor	356
	Quiñonez Uribe, Raul Alejandro	Millisecond Optogenetic Cardioversion of Murine Hearts Using Global Illumination	102
		Adversarially Trained Convolutional Neural Networks for Semantic Segmentation of Ischaemic Stroke	
	Rajan, Ronnie	Lesion Using Multisequence Magnetic Resonance Imaging	317
	Rajeswaran, Pavithra	Cyber Physical CPR Training System with Physiological Feedback	103
	Rana, Soumya Prakash	ITERATOR: A 3D Gait Identification from IR-UWB Technology	454
I	Rekowska, Natalia	Biocompatibility and Thermodynamic Properties of PEGDA and Two of Its Co-Polymers	478
ı	Ressom, Habtom	Multi-Omic Pathway and Network Analysis to Identify Biomarkers for Hepatocellular Carcinoma	383
	Robles, Denise	Label-Free Plasmonic Biosensor for Detection of Parkinsons Disease Biomarkers	104
		Ultrafast Ultrasound Imaging of Motor Units in Skeletal Muscle During Voluntary Contractions a Pilot	
	Rohlén, Robin	Validation Study by Using Needle-EMG	105
I	Roy Chowdhury, Shubhajit	Non Invasive Brain Stimulation (NIBS) Study Based on Ischemic Stroke Patients	487
ı	Roy, Anup Kumar	Development of Objective Evidence in Rorschach Ink Blot Test: An Eye Tracking Study	384
		An MR Radiomics Framework for Predicting the Outcome of Stereotactic Radiation Therapy in Brain	
ı	Sadeghi-Naini, Ali	Metastasis	318
ı	Saffaran, Sina	Computational Simulation of Mechanically Ventilated Neonatal Patients in the Intensive Care Unit	106
		Non-Contact Capacitive Ballistocardiogram Measurements Using In-Bed Fabric Sheet Electrode for	
ı	sakajiri, yuichiro	Blood Pressure Estimation	331
	Sakuma, Katsuyuki	Turning the Finger into a Writing Tool	357

Salvo, Pietro	A Biosensor for the Detection of Acetylcholine and Diazinon	414
	The Importance of Biomarker Stability and Sampling Procedures of Saliva for the Design of Point-Of-	
	Care and Lab-On-Chip Devices	415
	An Accurate Data Preparation Approach for the Prediction of Mortality in ACLF Patients Using the	
Sanchez Garcia, Moises Noe	CANONIC Dataset	385
Sano, Yuko	Detection of Abnormal Segments in Finger Tapping Waveform Using One-Class SVM	386
Sarafidis, Michail	Bioinformatics Analysis Reveals Ki-67 Specific microRNA Functions in Pediatric Embryonal Tumors	416
	The Prisoners Dilemma in the Tumor Biology Context: The Warburg Effect, Proliferation Dynamics and	
	Equilibria	417
	Feature Quantities of EEG for a Model to Estimate Human Internal States of Concentration and	
Sazuka, Naoya	Relaxation	107
Schiatti, Lucia	Low-Cost and Open-Source Semi-Dry Electrodes for Assistive BCIs	108
Schmid, Maurizio	Wearable-Based Temporal Parameters of Gait in Circuitous Routes under Dual-Task Conditions	358
	The Relation of Skin Conductance and Pupillary Fluctuations Assessed by Phase-Rectified Signal	
Schumann, Andy	Averaging	455
	Monte-Carlo Analysis for Quality Estimation of Gradient Correction Algorithms in Simultaneous	
Schwartz, Martin	Surface EMG-MRI Measurements Using Signal Synthesis and Class Probability	456
Sebastian, Arun	Automatic Classification of Non-Snore, Simple Snore and OSA Related Snore Using Audio Signal	109
	Design and Implementation of a Biosensing Microsystem for Non-Invasive Estimation of NIR-Visible	
Sen, Prasanta Kr	Spectrum	110
	Implementation of the Recurrent Neural Networks Onto the Remote Photoplethysmography-Based	
Seo, Jong Mo	Heart Rate Monitoring	11:
	Alternating Magnetic Field Induced Drug Release in Erythromycin Nano-Vesicles Encapsulating	
Serag El Din, Nermeen	Magnetic Nanoparticles	112
Shaji, Ashly	BronchoNav: Haptic Based Preoperative Planning Tool for Virtual Bronchoscopy	113
Sharma, Neha	Trace Elemental Profile in Oral Precancer and Cancer	114
Sharma, Pragya	A Wearable RF Sensor for Monitoring Respiratory Patterns	359
	Portable, Low Cost Smartphone-Based Potentiostat System for the Salivary α-Amylase Detection	
SHEN, Xiaoyan	in Stress Paradigm	387
	Ultrasound-Based Diagnosis of Breast Tumor with Parameter Transfer Multilayer Kernel Extreme	
Shi, Jun	Learning Machine	319
	Analysis of High-Frequency Leakage Current from an Air-Core Transcutaneous Transformer to Ground	
Shiba, Kenji	through the Human Body	115
Shibui, Toyohito	Heart Rate Rhythm Based Psychological Flow Frequency Prediction	116
Shim, Bong Sup	Anti-Inflammatory Coating of Melanin by Layer-By-Layer Assembly	194
	Controlled Release of Doxorubicin from Polyethylene Glycol Functionalized Melanin Nanoparticles for	
	Breast Cancer Therapy	195
Shimba, Kenta	Microdevice for Evaluating Ion Channel Expression by Axon-Targeted Recording to Cultured Neurons	479
shimizu, Hiroto	Pressure Wave Propagation in the Artificial Artery Model with Stenosis	117
Shin, Hangsik	Postoperative Pain Assessment Using Convolutional Neural Network	118
Shono, Naoyuki	MRI-Targeted Placement of Handheld Raman Spectroscopy Probe in Prostate Tumor	119
	Tracking Functional Connectivity Dynamics across Intrinsic Connectivity Networks from Resting-State	
Shou, Guofa	EEG	120
Skoric, Tamara	Transfer Entropy in Artificial and Cardiovascular Environment in Stress	45
Slavaktan Comanda	A Habrid Character Food Call Decades Floring described Codes News tables and Districted Codes	200
Slaughter, Gymama	A Hybrid Glucose Fuel Cell Based on Electrodeposited Carbon Nanotubes and Platinized Carbon	360

Calacante Audrica	Detection of Atrial Fibrillation Union a Weigh Device	4.7
Solosenko, Andrius Somerlik-Fuchs, Karin H	Detection of Atrial Fibrillation Using a Wrist Device Research Platform for Medical Device Development to Simplify Translation to the Market	12 48
Joinelik-Fuciis, Kariii H	A Single-chain Templated Polymer-based Target Receptor as a New Platform for Label-Free Selective	48
Song, Edward	Electrochemical Sensing	36
Song, Yun Seong	Design Method for Robots for Overground Physical Interaction	12
Jones Fun Jeong	besign method for respective raystearmended.	
Soroushmehr, Sayedmohamma	Gland Segmentation in Histopathology Images Based on Deep Networks and Handcrafted Features	19
, , , , , , , , , , , , , , , , , , , ,	Hierarchiacal Pruning for Simplification of Convolutional Neural Networks in Diabetic Retinopathy	
	Classification	19
	Portuguese Haemophilia Registry: A First Characterization of Patients Based on a Web-Based	
Sousa Santos, Beatriz	Application	12
Sugawara, Tomoko	Estimating Otolith Function from Reflexive Eye Movements During the Head Impulse Test	12
Sühn, Thomas	Improved Acquisition of Vibroarthrographic Signals of the Knee Joint	36
	Adrenal Tumor Vessels Segmentation Using Convolutional Neural Network in Computed Tomography	
Sun, Jianqi	Angiography	32
Sun, Qi	Influence of Exercise on the Modified Blalock-Taussig Shunt: Patient-Specific Hemodynamic Analysis	12
Suzuki, Ikuto	NIR Spectroscopic Prediction of Urinary Components for Management of Protein and Salt Intake	12
Suzuki, Kouta	Parkinsons Disease Detection Based on LightGBM	12
Suzuki, Shiho	A System of Estimation on Optical Properties of Biological Tissue Using Inverse Monte Carlo Method	12
Syed, Azeemuddin	Low Cost Wavelength Specific Water Quality Measurement Technique	36
Taati, Babak	Non-Contact Apnea-Hypopnea Index Estimation Using Near Infrared Video	45
	Detaching RAW264.7 Macrophages from a Culture Dish Using Ultrasound Excited by Langevin	
Takemura, Kenjiro	Transducer	19
	Regulating Cell Migration by Horizontal Vibration of a Clinically Ubiquitous Cell Culture Dish	19
	Hierarchical Classification Scheme for Real-Time Recognition of Physical Activities and Postural	
TALHA, Sid Ahmed Walid	Transitions Using Smartphone Inertial Sensors	36
Ton Davin	Sliding Window Sampling (SWS): A Strategy to Improve RNN Based Cuffless Blood Pressure Estimation	12
Tan, Daxin Tanaka, Keita	Measurements of MEG with a Superconducting Self-Shield and Zero Boil-Off System	12
Tang, Xiaoying	Fully Automatic White Matter Hyperintensity Segmentation Using U-Net and Skip Connection	32
Tantibundhit, Charturong	Automated Glaucoma Screening from Retinal Fundus Image Using Deep Learning	32
rantibulium, charturong	Automatic Detection of Focal Liver Lesions in Multi-Phase CT Images Using a Multi-Channel and Multi-	32
Todoroki, Yoshihiro	Scale CNN	32
Todoroki, Toshilillo	Prediction of Response Time and Vigilance Score in a Sustained Attention Task from Pre-Trial Phase	32
Torkamani-Azar, Mastaneh	Synchrony Using Deep Neural Networks	45
Torkamam Azar, Mastanen	Interactive Process Mining: Training Health Care Professionals towards a Sustainable Value Based	
Traver, Vicente	Health Care System	13
Tsai, Jang-Zern	Design and Simulation of Optimum Interdigitated Electrode Structure	13
	Mechanical Properties of Double Network Poly (Acrylic Acid) Based Hydrogels for Potential Use as a	
Udayanandana, Ruwan	Biomaterial	48
Udhayakumar, Radhagayathri	Cross Entropy Profiling to Test Pattern Synchrony in Short-Term Signals	46
Unger, Laura Anna	Substrate Characterization with Local Impedance Mapping	13
	An Experiment to Distinguish Major Depression and Dementia with Lewy Bodies from Healthy	
Uraguchi, Tomotaka	Participants Using Voice	13
Uthappa, Poojitha	Hybrid Unified Deep Learning Network for Highly Precise Gleason Grading of Prostate Cancer	32
Uto, Sadahito	Influence of Applied Magnetic Field on Cultured Muscle Cells in Differentiation	13
Vabalas, Andrius	Kinematic Features of a Simple and Short Movement Task to Predict Autism Diagnosis	38

Ī	Van Huffel, Sabine	Monitoring Brain Hemodynamics Coupling in Neonates Using Updated Tensor Decompositions	463
Ļ	Vannozzi, Lorenzo	Nanocomposite Thin Films Based on Polyethylene Vinyl Acetate and Piezoelectric Nanomaterials	483
		Selection of Efficient Clustering Index to Estimate the Number of Dynamic Brain States from	
ļ	Vergara, Victor Manuel	Functional Network Connectivity	462
	Vettoretti, Martina	Modeling the Carb-Counting Error in Type 1 Diabetes Management	42:
		Modeling the Measurement Error of Factory-Calibrated Continuous Glucose Monitoring Sensors:	
ļ		Application to Dexcom G6 Sensor Data	420
		Convolutional Neural Network-Based Regression for Biomarker Estimation in Corneal Endothelium	
ŀ	Vigueras-Guillén, Juan P.	Microscopy Images	32!
ŀ	Viraraghavan, Venkata Subrama	A Sensor-Enabled Digital Trier Social Stress Test in an Enterprise Context	389
ŀ	Viscaino Sarango, Michelle Este	Machine Learning for Computer-Aided Polyp Detection Using Wavelets and Content-Based Image	320
ŀ	Viton, Fabien	Deep ConvNets for Multivariate Time Series Classification with Application to Healthcare	130
ŀ	Wang, Hanbin	Decreased Motor Control of the Core Muscles in Osteoarthritis Patients	13
ŀ	Wang, Ling	Comparison and Analyzation of Different Feature Parameters for Alzheimers Disease Identification	32
		Liver Fibrosis Classified by Quantitative Ultrasound Parameters and Deep Convolutional Neural	
ŀ	Wang, Shyh-Hau	Networks	138
ŀ	Wetzel, Dominik	Evaluation of electroencephalography analysis methods	463
ŀ	Will, Matthias	Asynchronous Decoding of P300 Potentials for Self-Paced BCI Control	139
ŀ	Wobrock, Dennis	Resynchronizing Recordings Using Fixation-Related Potentials	140
		Deep Learning Approach to Parkinsons Disease Detection Using Voice Recordings and Convolutional	
ŀ	Wodzinski, Marek	Neural Network Dedicated to Image Classification	464
	Man liburan	Development of Continuous Canach Evalved Electroprophalography to Prodict Canach Intelligibility	1.4
ŀ	Woo, Jihwan	Development of Continuous Speech-Evoked Electroencephalography to Predict Speech Intelligibility	14:
ŀ	Wu, Shun-Chi	Automated Drosophila Brain Functional Area Delineation	142
	Wu, Tianzhun	High-Performance Nanocrystal Platinum on Hierarchical Microelectrode for Biochemical Sensing	423
	vvu, Haliziluli	High-throughput Droplet Array Generated by Roller Nanoimprint Lithography with Biomimetic	42.
		Surfaces	422
ł	Wu, Tong	Learning to Sort: Few-Shot Spike Sorting with Adversarial Representation Learning	469
i	eva, rong	Asymmetric Multifractal Detrended Cross-Correlation Analysis of EEG and sEMG in the Processes of	-10.
	Xu, Guanghua	Force Changes	143
i	Xu, Lisheng	Development of a Biosensor Based on Graphene for Detection of Physiological Signals	36!
i	Au, Lisheng	Adaptive Signal Processing Algorithm for Estimating Respiratory and Heart Rate by UWB Radar	30.
	Xu, Shengqian	Technology	144
i	Yambe, Tomoyuki	Cloud Database Construction for the Expressway Design by the Use of the Medical Information	489
i	Yana, Kazuo	Flow Related State Classification Based on the Experience Sampling Method	20:
	,	Heart Rate Respiratory Rhythm Cancelation Via Acceleration Signals	202
		Heartrate Measurement Accuracy of Consumer Wrist Devices	200
		On the Accurate Vessel Age Estimation Based on the Second Derivative of Photoplethysmogram	203
i	yang, banghua	A Framework on Optimization Strategy for EEG Motor Imagery Recognition	466
i	Ye, Dong Hye	Deep Learning Segmentation Performance Analysis on Pediatric Computed Tomography Scans	20!
		Synthesis of Pediatric Computed Tomography Scans with Deep Convolutional Generative Adversarial	
		Networks	204
İ	Ye, jingying	Joint 3D CNN Prediction Framework of AHI Using Physiological Indicators and CT Images	14!
i	Yi, Jungho	Legal Issues in Implantable Medical Devices: Liability & Hedge	394

ı			
	Valence Kaishi	A Magnetic and a bloom while University Contains Frankling Natural Food To Food Communication	1.44
	Yokosawa, Koichi Yokota, Yusuke	A Magnetoencephalographic Hyperscanning System Enabling Natural Face-To-Face Communication Modulation of Feedback Negativity Caused by Events in Virtual Reality Shooting Game	146 147
ł	Yoo, Sun K.	Feature Selection Using Kullback-Leibler Divergence for Emotion Classification	148
ł	100, 3uii K.	Investigation on the Radial Augmentation Index and Radial-Carotid Pulse Wave Velocity Using a Three-	140
	Vac Sumusuma	Axis Tactile Force Sensor	149
ł	Yoo, Sunyoung	Association Between Blood Pressure Classification and Incident Proteinuria Risk -2017 American	143
	Voon Huung lin	College of Cardiology/American Heart Association Guidelines	206
	Yoon, Hyung-Jin	Blockchain-Based Personal Health Record Transaction: Proof of Concept	208
			207
ł	Yoshino, Koya	Validation of Machine Learning Algorithms to Predict Proteinuria	150
ł	fosiiiio, koya	Prediction of Reaching Direction from EEG Signal in a Reaction Task	150
	Variated Ali America Abroad	A Machine Learning Approach to Investigate the Predictive Value of Pulse Pressure in ICU Mortality- Risk	151
ł	Youssef Ali Amer, Ahmed		
ł	YU, Bin	An Unobtrusive Stress Recognition System for the Smart Office	390
ł	Yuda, Emi	Long-Term Heart Rate Variability in Bovines	152
	Vers Therese	Frequency Component Differences in Plantar Stimulation Task Using GSP: A fMRI Comparison Study of	4.53
ł	Yue, Zhuang	the Young and the Elderly	153 154
ł	Zancla, Andrea	Evaluation of Cardiac Fibroblast Activation by Traction Force Microscopy	
	Zhang, Honggang	Coronary Artery Vascular Segmentation on Limited Data Via Pseudo-Precise Label	425
ł	71 71	Detection and Classification of Chronic Total Occlusion Lesions Using Deep Learning	424
ŀ	Zhang, Zhiqiang	Natural Dynamics of Spring-Like Running with Asymmetric Legs	155
ł	Zhao, Dongsheng	Using Machine Learning Models to Classify Stroke Risk Level Based on National Screening Data	391
	The Minim	Anterior Chamber Angles Classification in Anterior Segment OCT Images Via Multi-Scale Regions	220
ł	Zhao, Yitian	Convolutional Neural Networks	328
	There W.	Deep Neural Network for Automatic Characterization of Lesions on ⁶⁸ Ga-PSMA PET/CT	220
ł	Zhao, Yu	Images A Billia Condition of December 1 December 1 December 2 Dec	329
	Thomas Finhan	A Pilot Study on Continuous Breaststroke Phase Recognition with Fast Training Based on Lower-Limb	26
ł	Zheng, Enhao	Inertial Signals	366
	7h V!!!-	Alteration of Middle-Frequency Components in Patients with Diabetic Peripheral Neuropathy Using	24/
	Zheng, Yijia	Graph Signal Processing	210
		Basal Ganglia Adaptability Reduced in Diabetic Peripheral Neuropathy Patients with Impaired Balance	209
ł		Control	205
	Thoma Liona	Analysis of the Influence of Cuff Blood Pressure on the Prediction of Non-Invasive Fractional Flow	212
	Zhong, Liang	Reserve from CTCA and Reduced Order CFD	212
		Elevated Right Atrial Pressure Associated with Alteration of Left Ventricular Contractility and	244
ļ	Zhan Cualin	Ventricular-Arterial Coupling in Pulmonary Artery Hypertension	213
ļ	Zhou, Guolin	Sleep Apnea/hypopnea Causes an Anterior to Posterior Information Flow Increase in EEG	156
ļ	Zhou, longfu	Effect and Safety Evaluation of XETHRU X4 Radar Radiation on Sexual Hormone Levels in Mice	392
	7ha 14/	Improving the Malignancy Characterization of Hepatocellular Carcinoma Using Deeply Supervised	220
j	Zhou, Wu Grand Total	Cross Modal Transfer Learning for Non-Enhanced MR	330
ı	Grand Total		