

Wednesday 26 June

Poster number	Paper number	Presenter	Title
P1.01	1571007561	Giovanni Gugliandolo	A machine vision and electromyographic-based approach for hand gesture recognition
P1.02	1571007463	Jelte Haakma	Measurement of sweat gland activity by sweat sensing and deep learning
P1.03	1570987938	Malak Ghourabi; Racha Soubra	Enhanced Cough Analysis Using 1-Dimensional CNN Features for Respiratory Health Diagnosis
P1.04	1571007752	Anacecilia Villa-Parra	Towards a Multimodal Automatic Equipment for Predictive Health Monitoring of Industrial Workers: A Usability Perspective
P1.05	1571007178	Sebastián Orellana	A Novel Instrumented Test as an Indicator of Sensorimotor Disturbances in the Lumbar Spine of Road Cyclists - Preliminary Results
P1.06	1571005288	Stefano Massardi	Uncertainty Estimation of Human-Exoskeleton Interaction Using a Robotic Dummy
P1.07	1571007111	Xiaoyu Huang	A biomedical robotic platform combined with an application-specific laser-based end-effector for achieving high precision neurosurgery
P1.08	1571011349	Giovanni Gugliandolo	Neurophysiology Signal Codecs for the DICOM® Standard: Preliminary Results
P1.09	1571005030	Linda Ong	Unobtrusive machine learning based leg position detection during seated office work
P1.10	1571007290	Stephen Daniels	The potential use of loop mediated isothermal amplification (LAMP) for the rapid detection of pathogenic microbes, Staphylococcus aureus and a surrogate of SARS-CoV-2 in the environment
P1.11	1571007276	Mohsen Sheikh Hassani	Proposing a Low-cost, Transportable Horizontal Binaural Test Using Headphones
P1.12	1570995792	Yousef Riyazifar	Breast cancer imaging by source-extended full-waveform inversion
P1.13	1571005253	Xueting Li	Local Density Random Walk Model Preprocessing for Local Shear Wave Viscoelastographic Estimation
P1.14	1571006996	Mohanasankar Sivaprakasam; Shubham Sharma; Janak Dave; Arumugam Maheswari	Characterization of Blue Light Imaging for Early Cancer Detection: Validation and In Vivo Feasibility Study
P1.15	1571006815	Mihály Vetró	Detection of Microcalcifications in Mammograms using Algorithmic Filtering and Region-based Neural Networks
P1.16	1571007320	Leonardo Iannucci	Raman Biosensing of Sweat Metabolites: Univariate vs. Multivariate Algorithms
P1.17	1571007163	Patrick Evers	Characterization and modeling of the inductive heating of CoCrMo hip implants to facilitate intentional removal
P1.18	1571006073	Sebastian Hauschild	Optical Muscle Contraction Detection via Frequency Multiplexed LEDs
P1.19	1571007465	Antonio Cannuli	Evaluation of Parkinson's Disease by Means of InfraRed Thermography: Preliminary Results

P1.20	1571005971	Antoine Nonclercq	Integration of Sustainability in the Design Process of Medical Devices - Application to Dry Electrodes
P1.21	1571004074	Livio D'Alvia	Development and Validation of an Algorithm for Calibrating Photoplethysmography Integrated Device
P1.22	1571007192	Tiantao Jiang	Miniaturised and Flexible Patch for Continuous Tremor Monitoring Using Machine Learning
P1.23	1571005719	Maxime Verstraeten	A Strain Gauge-Based Implantable Bladder Volume Monitoring Sensor
P1.24	1571004684	Maria Vittoria Martire	Measuring mechanical properties of 3D printed specimens for creating cerebral aneurysm mock-ups for surgical training
P1.25	1571007397	Ganapathy Jaganathan	Impact of Physical (In)Activity on Carotid-Femoral PWV and Central Blood Pressure in Young and Middle-Aged Adults: A Pilot Study using ARTSENS Plus
P1.26	1571008045	Maurizio Pellegrini	Low-Cost Limb Flexion Assessment: Integrating Muscle Stimulation and Electrogoniometry in Rehabilitation
P1.27	1571006013	Marta Guarischi	A machine learning approach to unveil balance behavior through aging with an auditory cue
P1.28	1571013371	Andreea Marin	Signal Processing Techniques for the Localization of Seizure-Onset Zones in the Brain
P1.29	1571020145	Rareş-Marin Preoteasa	Research on best practices for EEG analysis in sleep stage scoring
P1.30	1571021265	Nur Ahmadi	Radar-Based Human Activity Recognition Using Convolutional Neural Networks on Edge Devices
P1.31	1571013564	Zaeed Khan	Joint Use of a Low Thermal Resolution Thermal Camera and an RGB Camera for Respiration Measurement
Thursday 27 June			
P2.01	1571006849	Aravind Anil	PhysioLSTM: A Novel 1D Architecture for Non-Contact Heart Rate Monitoring
P2.02	1571006864	Mehran TaghipourGorjikotaie	Frequency Selection to Improve the Performance of Microwave Breast Cancer Detecting Support Vector Model by Using Genetic Algorithm
P2.03	1571007249	Bruna Guerra	Adopting BiLSTM for Gait Phase Recognition in Exoskeleton Control via sEMG Signals
P2.04	1571005660	Pasquale Arpaia	EEG-based Detection of Inhibitory Control Activation during a Dual-Task
P2.05	1571006581	Iman Hosseini	Fall Risk Assessment Using Single IMU
P2.06	1571007560	Nicola Ferrara	2D and 2.5D Pancreas and Tumor Segmentation in Heterogeneous CT Images of PDAC Patients
P2.07	1571007568	Manojkumar Lakshmanan	Geometric Calibration of Cobots using Circle-Point Analysis for Surgical Applications
P2.08	1571007506	Lara Coelho	Children-friendly auditory version of the Somatic Rubber Hand illusion to study the interaction between proprioception and audition during development

P2.09	1571006448	Ilaria Marcantoni	The prognostic value of electrocardiographic alternans in the primary prevention on patients having an implantable cardioverter defibrillator
P2.10	1571005700	Merle Sehlmeier	How Cochlear Implant Position and Perilymph Composition affect Stimulation Electrode Impedance
P2.11	1571005018	Jyh-Miin Lin	Krylov subspace methods for MRI coil sensitivity profiles
P2.12	1571006810	Shaad Fazal	Overlapping Cervical Cell Region Segmentation
P2.13	1571007509	Racha Soubra	3D MRI Volume Segmentation Using 2D U-Net Models: A Focus on Deep Brain Structures of the Striatum
P2.14	1571007110	Solomon Gebru Abay	Automated Optic Disc Localization from Smartphone-captured Low Quality Fundus Images using YOLOv8n-based Model
P2.15	1571007443	Mohanasankar Sivaprakasam; Janak Dave; Preejith Sreelatha Premkumar	Design and Characterisation of Stereo Endoscope for Polyp Size Measurement
P2.16	1571007219	Anna Lanzolla	Development of a system for monitoring driver comfort via smartphones
P2.17	1571007727	Abhinav Uppal	Evaluating the Ear for Monitoring Somatosensory Evoked Potentials
P2.18	1571005974	Hao Sun	The infrared image based non-contact monitoring of respiratory waveform through deep Kalman filter
P2.19	1570998140	Jan Verstockt	HypIRskin: Thermography-Guided Device for Diagnosis and Characterization of Skin Cancer Lesions
P2.20	1571007763	Rahul Manoj	Periodic Weight Measurement for Bedridden Patients Using a Pressurized Liquid-Filled Channel System Integrated with Hospital Beds
P2.21	1571007470	Lorenzo Giannini	Investigation of SENSIPLUS Chips for Bioimpedance Spectroscopy Applications
P2.22	1571007585	Marco Ghidelli	Development of an eye-tracking method for diagnosing Delirium: assessing cognitive function and autonomic nervous system activity
P2.23	1571007101	Daniele Marazzi	Investigation of process strategies for the implementation of cerebral vessel by Additive Manufacturing
P2.24	1571006639	Jinshan Xu	Advancing Automated Sleep Stage Identification through Multimodal PSG-Based Multiview Analysis
P2.25	1571007230	Ferenc Kandi	2D Contrast-Ultrasound Dispersion Imaging of Angiogenesis in Adenomyosis: First Experimental Measurements
P2.26	1571020595	Sergio Lluva Plaza	Accuracy of commercial and custom-designed inertial systems for physical activity across different walking patterns
P2.27	1571020773	Antonino Proto	Extraction of the jugular venous pulse using a cervical contact plethysmography system
P2.28	1571020972	Yizhou Huang	Adaptive multi-threshold optimization for SVD-based clutter filtering in ultrafast transthoracic coronary flow imaging

P2.29	1571020978	Beatrice Federici	Effect of Variational Ultrasound Channel Data Compression on Downstream Color Doppler and Speckle Tracking Measurements
P2.30	1571021401	Sadaf Salamzadeh	Characterization of Magnetic Nanoparticles for Medical Applications
P2.31	1571006351	Monica Gori	iHelpY: new multisensory device to facilitate world exploration and motor skills of blind infants
P2.32	1571030000	Shavini Stuart	The complex requirements and smart solutions to reduce chronic and infected wound management
Friday 28 June			
P3.01	1571001635	Bruce Wallace	Metrics in a Dynamic Gaze Environment
P3.02	1571006075	Bruce Wallace	Assessing Driving Risk Indicators from Large Driving Data Sets
P3.03	1571010846	Annamária Várkonyi-Kóczy	Improved Sequential Fuzzy Indexed Search Trees for Fast Classification
P3.04	1571007170	Justin Dauwels	Towards Robust Object Detection in Unseen Catheterization Laboratories
P3.05	1570995996	Amr Mohamed	Real-Time Colonic Disease Diagnosis with DRL Low Latency Assistive Control
P3.06	1571007074	Caterina Piazza	Application of machine learning analysis of EEG connectivity data and environmental factors for the identification of neurodevelopmental conditions
P3.07	1571007769	Nabeel PM	Time warping approach to overcome motion artifact's influence on automated arterial wall identification: Proof-of-concept
P3.08	1571007303	Nicola Abeni	Case study of surgeon's kinematics performing arthroscopy in real and simulation scenarios: a multisensor approach
P3.09	1571007053	Saad Abouzahir	Dynamic Dashboard for Malaria Control: Integrating Climate Factors for Comprehensive Monitoring
P3.10	1571007737	Srinivasa Karthik	Optimization of Freezing Method to Facilitate Cryosectioning of Large Brain Tissues
P3.11	1571007541	Manojkumar Lakshmanan	Design and Analysis of Calibration Method for Universal Navigation Accessory in Image Guided Spine Surgeries
P3.12	1571007548	Imran Ahmed	Performance Analysis of UNet Backbones with Dropout for Morphometric Measurement of Blood Cells
P3.13	1571007389	Aparna Purayath	A Novel Spatio2-Frequency Blob Detection Algorithm for Enhancing Precision in Image Guided Surgery
P3.14	1571007370	Aparna Purayath	GUI-based Pedicle Screw Planning on Fluoroscopic Images Utilizing Vertebral Segmentation
P3.15	1571007058	Sasikala M	Development of Real-time wireless Brain Computer Interface speller using single-channel Steady State Visual Evoked Potential

P3.16	1571007186	Simona Di Meo	Numerical exposure to realistic and planar body models: effect of the polarization
P3.17	1571007691	Rahul Manoj; Nabeel PM	Assessment of Local Venous Pulse Wave Velocity using Single-Site Methods- A Pilot Study
P3.18	1571006029	Maria Giovanna Bianco	Sensorized Non-Invasive Ventilator for Clinical Applications in Telemedicine
P3.19	1571007212	Hugo Posada-Quintero; Nicolas Cordoba	Design of a Smartphone-based clinical Electroretinogram recording system
P3.20	1571007631	Gunjan Singh	Effect of Sitting Posture on Systolic Phase of Cardiac Cycle Derived from Strain Gauge based Ballistocardiogram
P3.21	1571012465	Franco Simini	Innovative Measurements in Biomedical Devices and their Clinical Origin
P3.22	1571007234	Sergio Lluva Plaza	BLE-UWB indoor localisation for behavioural analysis of community-dwelling older adults
P3.23	1571007030	Michela Franzò	Feasibility Study of Wearable Mixed Reality platform to the Vital Signs Remote Monitoring
P3.24	1571006151	Michel-Antony Ngan Yamb	Seizure detection based on vagus nerve activity: translation to an implantable setting
P3.25	1571005188	Alexandra-Georgiana Andrei	Freezing of Gait detection in Parkinson's disease: comparison of deep learning frameworks
P3.26	1571021092	Beatrice Federici	Active Inference for Closed-Loop Fetal Doppler Ultrasound
P3.27	1571021115	Florian Delberghe	Machine-Dependent Gain Variations in Ultrasound Imaging and Their Impact on Computer-Aided Diagnosis
P3.28	1571021175	Samir Boukhenous	A Wearable Smart Insole for Monitoring Walking Performance
P3.29	1571021233	Hiroki Sato	Relationship between hand motor and cognitive functions in elderly people: A functional near-infrared spectroscopy study