GNB2014 sessione poster Modelli di sistemi biologici, Elaborazione di dati, segnali e immagini biomediche

M-1 Gianluca Borghini, Pietro Aricò, Ilenia Graziani and Fabio Babiloni. Training improvement assessment by EEG, ECG and EOG analysis
M-2 Filippo Piccinini, Anna Tesei, Wainer Zoli and Alessandro Bevilacqua. Cancer multicellular aggregates: Volume reconstruction from a single 2D projection
M-3 Ilaria Liorni, Marta Parazzini, Serena Fiocchi, Vanessa Guadagnin and Paolo Ravazzani. Numerical dosimetry of pregnant woman models exposed to ELF-magnetic fields: compliance to the current exposure regulation for the occupational exposure at 50 Hz
M-4 Andrea Tura, Johannes Werzowa, Chiara Nalin, Giovanni Pacini and Marcus D. Säemann. Indices of glucose variability and glucose control quality in renal transplanted subjects
M-5 Myriam Ferrari, Romeo Martini and Andrea Bagno. Wavelet analysis of skin perfusion signals to evaluate the effect of FREMS therapy on post occlusive reactive hyperaemia
M-6 Giulia Pieretti and Sara Matteoli. Ocular surface temperature and uveal lesions: preliminary results
M-7 Paolo Bassanini, Elisa Scalco, Mattia Moroni and Giovanna Rizzo. A multi-resolution space-variant elastic registration strategy in lung CT images.
M-8 Andrea De Rinaldis, Fulvia Palesi, Gloria Castellazzi, Paolo Vitali, Elena Sinforiani, Claudia A.M. Wheeler-Kingshott and Egidio D'Angelo. How covariates influence tract-based spatial statistics: example in dementia
M-9 Elisa Passini, Matteo Facciani and Stefano Severi. A new Markov model to explore L-Type Calcium current inactivation mechanisms
M-10 Enrico Ravagli, Federica Cori, Marco Tartagni and Stefano Severi. Contactless conductivity detection in biocompatible polymeric lines
M-11 Elisa Fornasa, Milos Ajcevic and Agostino Accardo. Impact of intrapulmonary percussive ventilation settings on respiratory mechanics parameters
M-12 Daniele Tresoldi, Paola Volonghi, Marcello Cadioli, Raffaele Ponzini, Antonio Esposito, Umberto Morbiducci and Giovanna Rizzo. Extraction of a thoracic aorta 3D model from PCMRI: A level set approach
M-13 Antonella Belfatto, Pietro Cerveri, Marco Riboldi, Delia Ciardo, Agnese Cecconi, Roberta Lazzari, Barbara Alicja Jereczek, Roberto Orecchia and Guido Baroni. ODE model of tumor late response to radiation therapy in cervix cancer
M-14 Luana Romita, Attilio Evangelisti and Leonardo Bocchi. Effect of aging of thermal regulation of peripheral circulation
M-15 Chiara Trentin, Guido H.W. van Bogerijen, Michele Conti, Santi Trimarchi and Ferdinando Auricchio. How the aortic arch dimensions change during the cardiac cycle: an engineering analysis of aortic 4D Computed Tomography Angiography
M-16 Giovanni Improta, Giuliana Faiella, Maria Romano, Paolo Bifulco, Fabrizio Clemente and Mario Cesarelli. Power spectral analysis of foetal heart rate variability
M-17 Fabio Scarpa and Alfredo Ruggeri. Automatic grading of nerves tortuosity from in-vivo confocal images of the cornea
M-18 Anna Lisa Mangia and Angelo Cappello. A similitude-based adaptive BCI system for Communication

M-19 Elisa Marchetta, Cristina Baldoli, Pasquale Della Rosa, Mariaevelina Prudente, Sara Cirillo, Rosanna Rovelli, Roberta Scotti and Paola Scifo. Multimodal MRI study in a two months old patient with ischemic infarct
M-20 Stefano Diciotti, Stefano Ciulli, Andrea Ginestroni, Emilia Salvadori, Anna Poggesi, Leonardo Pantoni, Domenico Inzitari, Mario Mascalchi and Nicola Toschi. Multimodal MRI classification in vascular mild cognitive impairment
M-21 Maria Rubega, Chiara Fabris, Anne-Sophie Sejling, Jonas Duun-Henriksen, Line Sophie Remvig, Claus Juhl, Anhaita Goljahani, Giovanni Sparacino and Claudio Cobelli. Assessment of EEG changes during hypoglycemia in type 1 diabetic subjects
M-22 Silvia Malavasi, Domenico Barone, Giampaolo Gavelli and Alessandro Bevilacqua. Effects of motion compensation in CT perfusion
M-23 Giacomo Tarroni, Marco Castellaro, Carlo Boffano, Maria Grazia Bruzzone, Alessandra Bertoldo and Enrico Grisan. Intensity-Independent 3D Registration of Background-Suppressed ASL Brain Images
M-24 Alba Martín-Yebra, Enrico Gianluca Caiani, Violeta Monasterio, Alessandro Pellegrini, Pablo Laguna and Juan Pablo Martínez. T-wave alternans and autonomic nervous system activity during orthostatic stress after 5 days of head-down bed-rest
M-25 Sara Orgiu, Claudio Lafortuna, Fabio Rastelli and Giovanna Rizzo. Automatic segmentation of thigh MRI to assess regional composition in young and old females
M-26 Andrea Malagoli and Sergio Fonda. A new methodology to evaluate Human Workload State Inference
M-27 Dario Turco. Segmentation of MR data for automatic assessment of kidney volumes in polycystic kidney disease
M-28 Chiara Fabris, Andrea Facchinetti, Giovanni Sparacino and Claudio Cobelli. Sparse Principal Component Analysis for the parsimonious description of glucose variability in diabetes
M-29 Carla Rognoni, Gabriella Fizzotti and Silvana Quaglini. Preliminary evaluation of the quality of life in Italian patients with spinal cord injury
M-30 Michele Schiavon, Chiara Dalla Man and Claudio Cobelli. A method for the optimization of insulin to carbohydrate ratio from minimally-invasive technologies in type 1 diabetes
M-31 Andres Gonzalez-Vargas, Artemis Llamosi, Pascal Hersen, Eugenio Cinquemani, Gregory Batt and Giancarlo Ferrari-Trecate. Modeling gene expression at the single-cell and population level via mixed effects models
M-32 Giulia Matrone, Alessandro Stuart Savoia, Giosuè Caliano and Giovanni Magenes. High-quality ultrasound B-mode imaging using the DMAS beamformer
M-33 Davide Boschetto, Pierantonio Di Prima, Marco Castellaro, Alessandra Bertoldo and Enrico Grisan. Baseline constrained reconstruction of DSC-MRI tracer kinetics from sparse Fourier data
M-34 Francesca Piccinini, Chiara Dalla Man, Adrian Vella and Claudio Cobelli. A model for estimating hepatic insulin extraction in prediabetes during an OGTT
M-35 Francesco Brun, Rossella Quartulli, Luca Rei, Francesco Sensi, Andrea Chincarini, Maja Ukmar, Renata Longo and Agostino Accardo. High resolution MRI of the hippocampal area for the early diagnosis of Alzheimer's disease
M-36 Alfonso Maria Ponsiglione, Maria Romano, Giovanni Improta, Paolo Bifulco, Giovanni D'Addio and Mario Cesarelli. Symbolic dynamics analysis as a tool for assessing foetal heart rate variability
M-37 Andrea Bandini, Fabio Giovannelli, Gaetano Zaccara, Massimo Cincotta, Paola Vanni, Roberta Chiaramonti, Alessandra Borgheresi, Silvia Orlandi and Claudia Manfredi. Acoustic and kinematic measure of speech in idiopathic Parkinson's disease by means of contact-less techniques

M-38 Nicoletta Caramia, Fabien Lotte and Stefano Ramat. Optimizing spatial filter pairs for EEG classification based on phase-synchronization
M-39 Antonio Fasano and Valeria Villani. Fast estimation of narrowband components for ECG signals
M-40 Fausto Romano, Cristina Soria, Sofia Giorgetti, Loredana Marchese, Monica Stoppini, Vittorio Bellotti and Stefano Ramat. Behavioral analysis of transgenic C.elegans strains
M-41 Antonio Fasano and Valeria Villani. Fast detrending of RR series for HRV analysis
M-42 Vito Cacucciolo, Francesco Corucci, Cecilia Laschi and Matteo Cianchetti. Evolving optimal swimming in different fluids: a study inspired by batoid fishes
M-43 Chiara Baston, Laura Rocchi and Mauro Ursino. A computational model of action selection in Basal Ganglia
M-44 Luca Salerno, Carlo Cosentino, Alessio Merola and Francesco Amato. A new strategy for global uncertainty analysis of bistability in biomolecular systems
M-45 Nicolò Politi, Lorenzo Pasotti, Susanna Zucca, Gabriella Cusella and Paolo Magni. Design and implementation of a negative feedback controller in E. coli with a bottom-up approach
M-46 Giulia Gerboni, Monica Vatteroni, Claudia Kusmic, Fabio Bernini, Maria Giovanna Trivella and Arianna Menciassi. Development of a setup for spectrophotometric analysis of whole and hemolyzed blood, sensible to small hemolysis variations, and preliminary results
M-47 Federica Caselli, Ludovica Colella, Marjan Shaker, Philippe Renaud and Paolo Bisegna. Shape-sensitive microfluidic cytometer
M-48 Martina Vettoretti, Andrea Facchinetti, Simone Del Favero, Giovanni Sparacino and Claudio Cobelli. An on-line calibration method to improve accuracy of subcutaneous continuous glucose monitoring sensors
M-49 Roberto Visentin, Chiara Dalla Man and Claudio Cobelli. A Bayesian Method for the Identification of the Glucose-Insulin Model in Type 1 Diabetes
M-50 Serena Monti, Giuseppe Palma, Monica Ragucci, Angelo Salomone Megna, Antonio Ascione, Marcello Mancini and Anna Prinster. Optimization of Tagged MRI for the assessment of liver fibrosis
M-51 Giovanni Smania, Massimo Cella, Paola Baiardi and Paolo Magni. Clinical trial simulations as a tool to investigate innovative study designs in paediatric trials
M-52 Francesca Schettini, Fabio Aloise, Pietro Aricò, Serenella Salinari, Donatella Mattia and Febo Cincotti. Unsupervised Self-Calibration in P300-based Brain Computer Interface
M-53 Luca Palmerini, Laura Rocchi, Jeffrey M. Hausdorff and Lorenzo Chiari. Classification of Motor Patterns Leading to Freezing of Gait in Parkinson's Disease
M-54 Stefano Ciulli, Nicola Toschi, Francesca Bigazzi, Mario Mascalchi, Gianna Camiciottoli and Stefano Diciotti. Multifractal spectrum of 3-D lung CT images in pulmonary emphysema
M-55 Enrica Mezzalana, Alex MacDonald, Giuseppe De Nicolao and Stefano Zamuner. A Target Mediated Drug Disposition model for Otelixizumab binding on T lymphocytes
M-56 Susanna Zucca, Lorenzo Pasotti, Nicolò Politi, Gabriella Cusella and Paolo Magni. Modelling the effects of copy number variation in synthetic gene networks
M-57 Jlenia Toppi, Alessandra Anzolin, Monica Risetti, Febo Cincotti, Serenella Salinari, Fabio Babiloni, Donatella Mattia and Laura Astolfi. Time Varying Effective Connectivity for Evaluating the Efficacy of a Cognitive Rehabilitation Treatment
M-58 Maria Luisa Sardu, Giuseppe De Nicolao and Italo Poggesi. Drug-driven and biomarker-driven tumor growth inhibition models steady-state equivalence
M-59 Guido Tiberi, Laura Cercenelli and Emanuela Marcelli. Developing smartphone-based assistive technologies for indoor localization: a method to estimate the accelerometers' offset

M-60 Ottavia Dipasquale, Francesca Baglio, Ludovica Griffanti, Pietro Cecconi, Raffaello Nemni, Mario Clerici and Giuseppe Baselli. High dimensional ICA approach better detect functional connectivity damage of resting state networks in Alzheimer's disease
M-61 Elisa Scaccianoce, Francesca Baglio, Giulia Preti, Marcella Laganà, Ludovica Griffanti, George Papadimitriou, Giuseppe Baselli and Nikos Makris. A novel fMRI-guided tractography technique: an inverse approach applied to language network
M-62 Eros Montin, Luca Mainardi and Loredana Storelli. Tuning and validation of an image registration procedure for pediatric MR images
M-63 Chiara Magliaro, Annalisa Tirella and Arti Ahluwalia. hisTOOLogy: an user-friendly software for quantitative stain detection in histological slices
M-64 Pietro Aricò, Gianluca Borghini, Ilenia Graziani, Febo Cincotti and Fabio Babiloni. Towards a multimodal bioelectrical framework for the online mental workload evaluation
M-65 Michela Riz and Morten Gram Pedersen. Mathematical modeling of electrical activity in intestinal L-cells
M-66 Lucia Bandiera, Simone Furini, Alice Pasini, Marilisa Cortesi and Emanuele Giordano. A synthetic circuit to control noise in gene expression
M-67 Carlo Cosentino, Mariaconcetta Bilotta, Alessio Merola and Francesco Amato. A Synthetic Proportional-Integral Controller for Chemical Reaction Networks
M-68 Francesco Onorati, Riccardo Barbieri, Vincenzo Russo and Luca Tommaso Mainardi. Detrended Fluctuation Analysis of Pupil Dilation
M-69 Manuela Petti, Floriana Pichiorri, Giovanni Morone, Marco Molinari, Febo Cincotti, Serenella Salinari, Fabio Babiloni, Donatella Mattia and Laura Astolfi. Statistical assessment of cortical connectivity changes at a single-subject level: simulations and application to the evaluation of a post-stroke rehabilitative intervention
M-70 Niels Bergsland, Maria Marcella Laganà, Stefano Viotti, Laura Mendozzi, Eleonora Tavazzi, Paola Tortorella, Cristina Grosso, Chiara Pagliari, Giuseppe Baselli and Marco Rovaris. Relationship between manual versus automatic MRI-based iron quantification and clinical disability
M-71 Milos Ajcevic, Umberto Lucangelo, Elisa Fornasa and Agostino Accardo. Comparison of methods for tracheal pressure estimation during HFPV
M-72 Eleonora Tamilia, Fabrizio Taffoni, Jonathan Delafield-Butt and Eugenio Guglielmelli. An Automatic Approach for the Assessment of Sucking Behaviour during Bottle-Feeding in Term Infants: Preliminary Analysis and Findings
M-73 Fabio Rotondi, Silvana Franceschetti and Ferruccio Panzica. Altered resting-state EEG networks in absence epilepsy
M-74 Fabio Baselice, Giampaolo Ferraioli and Vito Pascazio. Spin-spin relaxation time extimation for diagnosis
M-75 Silvia Orlandi, Claudia Manfredi, Andrea Guzzetta, Andrea Bandini and Maria Luisa Scattoni. An integrated system for the automatic management of audio and video recordings in newborns: first results on normative data
M-76 Laura Cercenelli and Emanuela Marcelli. A mechanical simulator of cardio-respiratory movements for Impedance Minute Ventilation assessment
M-77 Filippo Cona, Fabio Pizza, Federica Provini and Elisa Magosso. Automatic Detection and Characterization of Slow Eye Movements
M-78 Laura Pinna and Angelo Maria Sabatini. Ergonometric gait analysis using wearable inertial sensor: a validation study
M-79 Federico Giovannini, Filippo Cona and Elisa Magosso. A cortico-collicular model of audiovisual integration

M-80 Maristella Lucchini, William Fifer, Rakesh Sahni and Maria G. Signorini. Linear and Non-Linear Analysis of Heart Rate Variability in Premature Infants
M-81 Francesco Sgrò, Giuseppe Monteleone, Maurizio Palesi and Mario Lipoma. An hybrid approach for automatic gait events detection using a triaxial accelerometer sensor