

GNB2014 sessione poster Riabilitazione, Analisi del movimento, Ambient-assisted living

R-1 Anna Alloni , Silvia Panzarasa, Chiara Zucchella, Elena Sinforiani and Silvana Quaglini . CoRe: a system for cognitive rehabilitation and its preliminary evaluation
R-2 Alessandro Lazzarini Barnabei, Enrico Dallago, Alessandro Liberale and Maria Evelina Mognaschi. Solar energy harvesting system for wireless body sensors
R-3 Elisa Marenzi, Gian Mario Bertolotti and Giovanni Danese. In-Chair Movements of Healthy People
R-4 Laura Fiorini, Manuele Bonaccorsi, Filippo Cavallo, Raffaele Esposito and Paolo Dario. Design of a Cloud Robotics Solution for Ambient Assisted Living Application
R-5 Stefano Mazzoleni , Guido Vagheggin , Lorenzo Buono , Giulia Montagnani , Nicolino Ambrosino and Paolo Dario . Effects of interactive game-based training in pulmonary rehabilitation: preliminary results
R-6 Carmen D'Anna, Daniele Bibbo, Tommaso D'Alessio, Michela Goffredo, Maurizio Schmid and Silvia Conforto. A Predictive Visual Biofeedback to improve balance in upright stance trials
R-7 Giovanni Passetti, Francesca Cecchi, Andrea Pratesi, Francesco Paolo Falotico, Irene Mannari, Cecilia Laschi and Paolo Dario. A mechatronic baby gym for promoting infants' motor development
R-8 Angela Grassi, Ilaria Baldoli, Francesca Cecchi and Cecilia Laschi. New devices to measure sucking and grasping for the study of the mirror-neurons system
R-9 Manuele Bonaccorsi , Laura Fiorini , Filippo Cavallo , Raffaele Esposito and Paolo Dario. Toward a Cloud Robotics Solution for Indoor Localization in AAL applications
R-10 Mario Cortese, Marco Cempini and Nicola Vitiello. A multifunctional setup for robot-mediated hand rehabilitation
R-11 Antonella Verbeni, Andrea Cafarelli, Piero Miloro and Arianna Menciassi. An experimental system for the study of the mechanism of sonothrombolysis
R-12 Marco Freddolini, Aluena Battaglioli, Filippo Chiechi, Anastasios Georgoulis and Giuliano Cerulli. Electromechanical delay of the knee flexors muscles after anterior cruciate ligaments reconstruction using semitendinosus tendon
R-13 Marco Controzzi , Francesco Clemente , Sara Dragoni and Christian Cipriani . Design of a dexterous hand prosthesis based on a Geneva wheel
R-14 Federico Montagnani , Marco Controzzi and Christian Cipriani. A comparison between different configurations of hand/wrist prostheses
R-15 Silvia Macis, Daniela Loi, Gianmarco Angius, Danilo Pani and Luigi Raffo. Towards an integrated TV-based system for active ageing and tele-care
R-16 Raffaele Limosani, Filippo Cavallo and Paolo Dario. Extended Interaction among Robots and Environment
R-17 Ludovico Pedullà, Andrea Tacchino, Claudio Vassallo, Laura Bonzano, Mario Alberto Battaglia, Marco Bove and Giampaolo Bricchetto. A new tool for personalized at-home intensive cognitive rehabilitation
R-18 Alice De Luca, Rehabilitation Robotics Team, Honorè Vernetti, Carmelo Lentino, Giovanni Antonio Checchia, Psiche Giannoni and Maura Casadio. Robot-assisted rehabilitation in chronic stroke survivors: can the training of the unaffected arm contribute to recovery?
R-19 Francesca Cordella, Loredana Zollo and Eugenio Guglielmelli. Hand motion reconstruction with optoelectronic systems and model-based stochastic methods

R-20 Simona Crea, Marco Donati, Federica Vannetti, Guido Pasquini, Raffaele Molino Lova and Nicola Vitiello. An in-shoe device for assessment of gait abnormalities: three case studies
R-21 Andrea Parri, Tingfang Yan, Nicolò D'Elia, Federica Vannetti, Guido Pasquini, Francesco Giovacchini, Matteo Fantozzi, Mario Cortese, Raffaele Molino Lova and Nicola Vitiello. Control of an active pelvis orthosis for gait assistance in the elderly
R-22 Paolo Colagiorgio, Maurizio Versino, Silvia Colnaghi and Stefano Ramat. Functional and quantitative assessment of the VOR
R-23 Marco Moraschini, Francesca Sardi, Paolo Colagiorgio, Maurizio Bejor, Giovanni Ricevuti, Angelo Buizza and Stefano Ramat. Development of an automatic evaluation system for balance assessment scales
R-24 Francesco Clemente, Marco D'Alonzo and Christian Cipriani. DESC Glove: a wearable sensory feedback device for commercially available hand prostheses
R-25 Elisabetta Peri, Emilia Biffi, Anna Carla Turconi, Alessandra Pedrocchi and Gianluigi Reni. Robot-assisted lower limb rehabilitation may improve locomotion performance in children with cerebral palsy
R-26 Gian Mario Bertolotti, Andrea Cristiani and Stefano Ramat. A wearable, modular, and low-cost instrument for objective measurements of limb movements and balance control abilities
R-27 Anna Lisa Ciancio, Loredana Zollo, Selim Eskiizmirililer, Michele Tagliabue, Fabrizio Taffoni, Eugenio Guglielmelli and Marc Maier. Experimental analysis of human cyclic manipulation and application to control of anthropomorphic robotic hands
R-28 Cristiano De Marchis , Ivan Bernabucci, Maurizio Schmid, Anna Margherita Castronovo and Silvia Conforto. Merging a library of basic motor modules accounts for the muscle coordination of a variety of motor tasks
R-29 Benish Fida , Ivan Bernabucci , Riccardo Buccioli, Silvia Conforto and Maurizio Schmid . ART: an Activity Recognition Toolbox based on inertial sensor data
R-30 Eugenia Papaleo, Loredana Zollo and Eugenio Guglielmelli. A bio-cooperative robotic system for 3D upper-limb rehabilitation
R-31 Federica Vannetti, Guido Pasquini and Raffaele Molino Lova. Metabolic daily monitoring in elderly lower limb amputees
R-32 Chiara Iacovelli, Pietro Caliendo, Mariano Serrao, Luca Padua, Gabriella Silvestri, Chiara Simbolotti, Silvia Mari, Giuseppe Reale, Carlo Casali and Paolo Maria Rossini. Prefrontal cortex as a compensatory functional substrate during ataxic overground gait: a correlation study between cortical activity and gait parameters
R-33 Tecla Bonci, Valentina Camomilla, Raphaël Dumas, Laurence Chèze and Aurelio Cappozzo. Different approaches for in-vivo soft tissue artefact modelling
R-34 Irene Aprile, Marco Rabuffetti, Enrica Di Sipio, Chiara Simbolotti, Luca Padua and Maurizio Ferrarin. Kinematic analysis of the upper limb motor strategies in stroke patients as a tool towards advanced neurorehabilitation strategies
R-35 Noelia Chia Bejarano, Emilia Ambrosini, Alessandra Pedrocchi, Giancarlo Ferrigno, Marco Monticone and Simona Ferrante. Validation of a real-time gait events detection on stroke patients with different levels of impairment
R-36 Jacopo Zenzeri, Dalia De Santis, Maura Casadio, Lorenzo Masia, Valentina Squeri and Pietro Morasso. Integrating minimal assistance with the assessment of volitional effort
R-37 Irene Tamagnone , Emanuela Delfino, Angelo Basteris and Vittorio Sanguineti . A robot system to facilitate the acquisition of handwriting skills
R-38 Laura Pellegrino, Psiche Giannoni and Maura Casadio. Learning postural control through visual feedback: advantages and limits

R-39 Susanna Summa and Vittorio Sanguineti . Reinforcement learning, action selection and movement vigor
R-40 Francesca Marini, Leonardo Cappello, Valentina Squeri, Assunta Riva, Pietro Morasso and Lorenzo Masia. Adaptive assistance in Robotic Wrist Rehabilitation for a Subject Affected by Dystonia
R-41 Luca Ricci, Domenico Formica, Eugenio Guglielmelli and Domenico Campolo. Validation of wearable magneto--inertial tracking system accuracy with a robotic arm
R-42 Andrea Castelli, Gabriele Paolini, Andrea Cereatti and Ugo Della Croce. Lower limb joint kinematics using a single camera: a 2D+ hybrid markerless solution
R-43 Marco Donati, Francesca Cecchi, Filippo Bonaccorso, Marco Branciforte, Paolo Dario and Nicola Vitiello. A sensorized mat for monitoring pressure distribution
R-44 Anna Vera Cuppone, Marianna Semprini and Valentina Squeri. Bidirectional multimodal feedback in robotic rehabilitation
R-45 Valeria Serchi, Agnese Peruzzi, Andrea Cereatti and Ugo Della Croce. Tracking gaze while walking on a treadmill: limits of use of a stationary remote eye-tracker
R-46 Diana Trojaniello, Andrea Cereatti and Ugo Della Croce. Gait direction of progression estimate using shank worn MIMUs
R-47 Danilo Pani , Gianluca Barabino , Alessia Dessì , Matteo Piga, Iosto Tradori, Alessandro Mathieu and Luigi Raffo . Telerehabilitation of the hand: the Re.Mo.To. project experience
R-48 Francesco Paradisi , Giuseppe Vannozzi , Aurora Summa , Eugenio Di Stanislao , Marco Trallesi and Aurelio Cappozzo . UPPER BODY ACCELERATION DURING TRANSTIBIAL AMPUTEES WALKING
R-49 Francesca Martelli, Rafael Raya, Marco Iosa, Miguel Velasco, Alejandro Clemotte, Luca Muzzioli, Daniela Morelli, Donatella Mattia, Eduardo Rocon and Febo Cincotti. Target estimation in pointing tasks. A new approach to improve the computer interaction for people with Cerebral Palsy
R-50 Gabriele Ligorio, Andrea Mannini and Angelo Maria Sabatini. Application of an IMU simulator in human motion analysis
R-51 Jose Francisco Saenz, Danilo Pani, Beatrice Fraboni and Annalisa Bonfiglio. Using conductive polymer coated textiles as electrodes for wearable biomonitoring