
CURRICULUM VITAE

Stefano ROSSI

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2 PERSONAL DETAILS

- *Name and Surname* Stefano ROSSI
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3 EDUCATION

- *2008 April* PhD in "Mechanical and Thermal Measurements" with specialization in "Measurements in Biomechanics"
Dissertation: "Design and clinical use of an instrumented helmet for the measurement of head kinematics"
Advisor: Prof. Paolo Cappa
Organization: University of Padua – Italy
- *2004 October* Five years Degree in Mechanical Engineering
Master Thesis Title: "Experimental evaluation of the linear and angular accelerations of the Vestibular System with an accelerometric cluster and an optoelectronic system"
Advisor: Prof. Paolo Cappa
Organization: "Sapienza" University of Rome – Italy
Final grade: 110/110 cum laude".

4 ACADEMIC AWARDS AND HONORS

- *2015 January* National Scientific Qualification as Associate Professor in "Mechanical and Thermal Measurements"
- *2013 – today* Quality assurance manager of Bachelor's degree course in Industrial Engineering at Department of Business and Management – University of Tuscia, Viterbo – Italy.

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5 ACADEMIC ACTIVITIES

5.1 Academic Experience

- *2012 – today* *Assistant Professor* in Mechanical and Thermal Measurements at the Department of Business and Management, Industrial Engineering University of Tuscia, Viterbo – Italy.
- *2014 – today* Teaching of “Mechanical and Thermal Measurements”, Bachelor Degree in Industrial Engineering at University of Tuscia, Viterbo – Italy.
- *2011 – 2012* Teaching of “Mechanical and Thermal Measurements”, Master Degree in Mechanical Engineering at “Sapienza” University of Rome – Italy.
- *2010 – 2011* Teaching of “micro/nano sensors”, Master Degree in Nanotechnology Engineering at “Sapienza” University of Rome – Italy.
- *2011* Teaching assistant of “Mechanical Measurements II”, Master Degree in Biomedical Engineering at “Sapienza” University of Rome – Italy.
- *2007 – 2013* Teaching assistant of “Industrial Measurements”, Bachelor Degree in Mechanical Engineering at “Sapienza” University of Rome – Italy.
- *2006* Teaching assistant of “Industrial Measurements I”, Master Degree in Mechanical Engineering at “Sapienza” University of Rome – Italy.
- *2005 – 2013* Teaching assistant of “Biomechanics”, Master Degree in Biomedical Engineering at “Sapienza” University of Rome – Italy.
- *2005 – 2011* Teaching assistant of “Measurements in clinics”, Bachelor Degree in Clinical Engineering at “Sapienza” University of Rome – Italy.

5.2 Master's Thesis Co-supervisor

<i>Year</i>	<i>Topic</i>
<i>2014</i>	Measurement of passive ankle stiffness in children Implementation of an HMM for the detection of gait phases
<i>2013</i>	Design of instrumented crutches: inertial sensors Design of instrumented crutches: load cells
<i>2012</i>	Biomechanical model of upper limbs and crutches Evaluation of a novel calibration procedure for inertial sensor-based gait analysis Effects of floor perturbations on the gait of children with neurological diseases

2011	Repeatability of performance indices used in robotic rehabilitation treatments
2010	Evaluation of the effects of several ankle braces on gait of children with neurological diseases Target reaching with a robotic device: biomechanical model of upper extremity of children Analysis of the effects of floor perturbations during walking
2008	Effects of rotational perturbation of the support surface during whole body rotation Comparison between inertial sensors and an optoelectronic system in gait analysis
2007	Study of equilibrium maintenance during rotational perturbations of the support base Design of a test device for the stiffness evaluation of sky-boots

6 RESEARCH ACTIVITIES

6.1 Research Experience

- 2010 – today *Researcher* (scientific consultant) at MARLab – Movement Analysis and Robotic Laboratory of the Hospital “Bambino Gesù”, Rome – Italy.
- 2010 – 2012 *Researcher* in Mechanical and Thermal Measurements at the Department of Mechanical and Aerospace Engineering of “Sapienza” University of Rome – Italy.
- 2008 – 2009 *Research Scholar* at the Department of Mechanical Engineering of the Massachusetts Institute of Technology (MIT) for 6 months. Topic: “*Development of the Anklebot pediatric version for the ankle rehabilitation*”.
- 2008 – 2010 *Postdoctoral research fellow* in the “Research Fellowship Program 2008-2010”; Rehabilitation Department Children’s Hospital “Bambino Gesù”, Rome – Italy.
- 2005 – 2007 *PhD Student* at the Department of Mechanics and Aeronautics, “Sapienza” University of Rome – Italy. Topic: “*Design and clinical use of an instrumented helmet for the measurement of head kinematics*”.

6.2 Research Fields of Interest

- 2014 **Multiple Sclerosis:** Selecting quantitative indices that can measure the level of pathology in patients with multiple sclerosis.
- 2012 – 2013 **TIAL Project:** Design of an automatic test device to validate laparoscopic trocars.
- 2010 – 2013 **IIT Project Seed ITINERE Interactive Technology: an Instrumented Novel Exoskeleton for REhabilitation:** Design of an active orthosis for the rehabilitation of knee and ankle of children with neurological disease.
- 2010 – 2013 **Children's Hospital "Bambino Gesù":** Study of the maintenance of equilibrium in presence of perturbations of floor during walking.
- 2009 – 2013 **Children's Hospital "Bambino Gesù":** Evaluation of upper limb kinematics and kinetics in reaching and visuo-manual tracking movements performed with a robotic device (MIT Manus).
- 2008 – 2010 **MIT Massachusetts Institute of Technology:** Design of the pediatric version of a device, which is called Anklebot, for the rehabilitation of ankle in children with Cerebral Palsy.
- 2008 **ISCR Institute for Conservation and Restoration:** Design of a suspension device for the exposition and preservation of the door BARDINI by means of springs and magnets.
- 2007 **ISCR Institute for Conservation and Restoration:** Evaluation of temperature and humidity influence on Antonello da Messina's painting called "Annunciazione".
- 2007 **S.S. Lazio:** Evaluation of equilibrium maintenance in athletes underwent to perturbations of the support base by means of an accelerometric helmet.
- 2007 **Nordica:** Design of a test device for the stiffness evaluation of sky-boots.
- 2006 **Children's Hospital "Bambino Gesù":** Evaluation of the gait improvement in children with hemiplegia by means of an optoelectronic system.
- 2006 **College De France - Paris:** Dynamic posturography of healthy subjects underwent sinusoidal perturbations of the support base by means of an ad-hoc rotating platform.
- 2006 **MIUR-PRIN:** Development of novel methods for the measurement of mechanical quantities to optimize the movement rehabilitation.
- 2005 **Children's Hospital "Bambino Gesù":** Design of an upper extremity kinematic model.

- **2004** **MIUR- PRIN:** Industrial weighting systems: experimental evaluation of the effects induced by vibrations into the metrological performances.
- **2003 – 2005** **University La Sapienza funds:** Design of an instrumented helmet for the measurement of head kinematics

6.3 Member of Scientific Committees and Editorial Boards

- **2015 – today** *Guest editor of Sensors & Transducers Journal – IFSA.*
- **2014 September** *Member of the Scientific Committee of the ESMAC & SIAMOC – Clinical Movement Analysis World Conference.*
- **2014 September** *Chairman at “ESMAC & SIAMOC – Clinical Movement Analysis World Conference” session “Upper limb analysis”.*
- **2014 August** *Member of the Best Student Paper Award Committee of the IEEE International Conference on Biomedical Robotics and Biomechatronics.*
- **2014 August** *Chairman at “IEEE International Conference on Biomedical Robotics and Biomechatronics” session “Mobility Assistance”.*

6.4 Invited Talks

- **2014 September** *Lecturer of “Metrology – base course” (12 hours), Italian National Committee for Maintenance (CNIM), Rome, ITALY.*
- **2013 May** *“WAKE-up – Wearable Ankle Knee Exoskeleton: an active orthosis for gait rehabilitation” Workshop on “ITINERE - Interactive Technology: an Instrumented Novel Exoskeleton for REhabilitation” University of Tuscia, Viterbo, ITALY.*
- **2012 October** *“Robot aided rehabilitation of upper and lower limb in the developmental age” Workshop on “Motor learning and new technologies: notes on pediatric physical therapy”, University of Milan – Bicocca, Milan, ITALY.*
- **2010 November** *“Classifications of gait patterns” Workshop on “The movement analysis in rehabilitation” SIAMOC Challenge 2010 Children Hospital “Bambino Gesù” IRCCS, Rome, ITALY.*
- **2010 January** *“The movement analysis of subjects with neurological disease by means of inertial sensors” Workshop on “The Robotic Neurorehabilitation”, Palazzo del Campidoglio, Rome, ITALY.*
- **2009 December** *“Kinematic and kinetic indices for the validation of the robotic treatments” Workshop on “Robotic Neurorehabilitation of upper limb”, Italian Institute of Technology (IIT), Genoa, ITALY.*
- **2008 July** *Lecturer of “Mechanical and Thermal Measurements” (17 hours), Master in “IFTS Renewable Energy”, Rome, ITALY.*

- 2008 January Lecturer of “Mechanical and Thermal Measurements” (17 hours), Master in “IFTS Cantieristica navale”, Terracina, ITALY.
- 2007 December “A robotic device for the upper limb rehabilitation” Workshop on “Robotic Neurorehabilitation: change the environment to learn the function”, Children Hospital “Bambino Gesù” IRCCS, Rome, ITALY.
- 2006 October “The MIT MANUS: technical point of view” Workshop on “Movement analysis by means of new technologies”, Children Hospital “Bambino Gesù” IRCCS, Rome, ITALY.

6.5 Reviewing Activity

- 2014 — today *Sensors*
- 2014 *ESMAC & SIAMOC – Clinical Movement Analysis World Conference*
- 2014 *2014 IEEE International Conference on Biomedical Robotics and Biomechatronics*
- 2013 — today *Physiological Measurement*
- 2013 — today *Journal of Intelligent and Robotic Systems*
- 2012 *2012 IEEE International Conference on Biomedical Robotics and Biomechatronics*
- 2008 — today *Transactions on Mechatronics*
- 2008 *2008 IEEE International Conference on Biomedical Robotics and Biomechatronics*
- 2007 — today *Measurement Science and Technology*

7 PUBLICATIONS

7.1 Journal papers

1. TABORRI J, **ROSSI S**, PALERMO E, PATANÈ F, CAPPÀ P “A novel HMM distributed classifier for the detection of gait phases by means of a wearable inertial sensor network” *Sensors* 14 (9) (2014): 16212-16234.
2. PACILLI A, GERMANOTTA M, **ROSSI S**, CAPPÀ P “Quantification of age-related differences in reaching and circle-drawing using a robotic rehabilitation device.” *Applied Bionics and Biomechanics* 11 (2014): 91-104.
3. PALERMO E, **ROSSI S**, PATANÈ F, MARINI F, CAPPÀ P “Experimental evaluation of accuracy and repeatability of a novel body-to-sensor calibration procedure for inertial sensor-based gait analysis” *Measurement* 52 (2014): 145-155.
4. FORMICA D, PETRARCA M, **ROSSI S**, ZOLLO L, GUGLIELMELLI E, CAPPÀ P “Shoulder motor performance assessment in the sagittal plane in children with hemiplegia during single joint pointing tasks” *BioMedical Engineering OnLine* 13:106 1-17 (2014).

5. PALERMO E, **ROSSI S**, PATANÈ F, CAPPÀ P "Experimental evaluation of indoor magnetic distortion effects on gait analysis performed with wearable inertial sensors" *Physiological Measurement* 35 (2014), 3: 399–415.
6. **ROSSI S**, GAZZELLINI S, PETRARCA M, PATANÈ F, SALFA I, CASTELLI E, CAPPÀ P "Compensation to whole body active rotation perturbation" *Gait and Posture*, 1 (2014), 39: 621-624.
7. **ROSSI S**, COLAZZA A, PETRARCA M, CASTELLI E, CAPPÀ P, KREBS HI "Feasibility Study of a Wearable Exoskeleton for Children: Is the Gait Altered by Adding Masses on Lower Limbs?" *PLoS ONE*, 8 (9) (2013).
8. PETRARCA M, **ROSSI S**, BOLLEA L, CAPPÀ P, CASTELLI E "Patient-centered rehabilitation, three years of gait recovery in a child affected by hemiplegia. Case report" *European Journal of Physical and Rehabilitation Medicine (Europa Medicophysica)*, 47 (2011), 1:35-47
9. **ROSSI S**, PATANÈ F, SCALISE L, MARCHIONNI P, CAPPÀ P "Centre of pressure in dynamic posturography: a comparison among systems based on a pressure matrix and a force platform" *Measurement Science and Technology*, 21 (2010), 015801 (9pp).
10. CAPPÀ P, PATANÈ F, **ROSSI S** "Two calibration procedures for gyroscope-free inertial measurement system based on a double pendulum apparatus" *Measurement Science and Technology*, 19 (2008), 055204 (9pp).
11. CENTONZE D, ROSSI S, DE BARTOLO P, DE CHIARA V, FOTI F, MUSELLA A, MATALUNI G, **ROSSI S**, BERNARDI G, KOCH G, PETROSINI L. "Adaptations of glutamatergic synapses in the striatum contribute to recovery from cerebellar damage" *European Journal of Neuroscience*, 27 (2008), 8: 2188-2196.
12. CAPPÀ P, PATANÈ F, **ROSSI S**, PETRARCA M, CASTELLI E, BERTHOZ A "Effect of changing visual condition and frequency of horizontal oscillations on postural balance of standing healthy subjects". *Gait & Posture* 28 (2008), 615-626.
13. CENTONZE D, PETTA F, VERSACE V, ROSSI S, TORELLI F, PROSPERETTI C, **ROSSI S**, MARFIA GA, BERNARDI G, KOCH G, MIANO R, BOFFA L, FINAZZI-AGRÒ E. "Effects of motor cortex rTMS on lower urinary tract dysfunction in multiple sclerosis" *Multiple Sclerosis*, 13 (2007), 269-271.
14. CAPPÀ P, PATANÈ F, **ROSSI S** "A redundant accelerometric cluster for the measurement of translational and angular acceleration and angular velocity of the head". *ASME Journal of Medical Devices*, 1 (2007), 14-22.

7.2 Conference proceedings published on peer-reviewed journals

1. GERMANOTTA M , PETRARCA M, **ROSSI S**, CARNIEL S, CASTELLI E, CAPPÀ P "Reaching tasks in an altered dynamic environment: Motor adaptation in FRDA patients" Proceedings of 14th Congress of the Italian Society of Clinical Movement Analysis (SIAMOC) / *Gait & Posture*, Volume 40, Supplement 1, August 2014, Page S1.
2. PALERMO E, **ROSSI S**, PATANÈ F, PETRARCA M, PISANO A, CANTONETTI L, MARRAS CE, CASTELLI E, CAPPÀ P "Experimental validation of a novel protocol for dystonia

assessment using MIMU sensors” Proceedings of 14th Congress of the Italian Society of Clinical Movement Analysis (SIAMOC) / *Gait & Posture*, Volume 40, Supplement 1, August 2014, Pages S23-S24.

3. GERMANOTTA M , PETRARCA M, **ROSSI S**, COLAZZA A, CASTELLI E, CAPPÀ P “Measure of stretch reflex spatial thresholds at the ankle in a patient with CP using the Anklebot” Proceedings of 14th Congress of the Italian Society of Clinical Movement Analysis (SIAMOC) / *Gait & Posture*, Volume 40, Supplement 1, August 2014, Page S25.
4. PETRARCA M, PATANÈ F, **ROSSI S**, CARNIEL S, CAPPÀ P, CASTELLI E “A new robotic exoskeleton for gait recovery” Proceedings of 14th Congress of the Italian Society of Clinical Movement Analysis (SIAMOC) / *Gait & Posture*, Volume 40, Supplement 1, August 2014, Pages S26-S27.
5. PACILLI A, GERMANOTTA M, **ROSSI S**, PETRARCA M, CASTELLI E, CAPPÀ P “Differences between children and adults in upper limb motor control during the execution of typical robotic rehabilitation tasks” Proceedings of 21st Meeting of European Society of Movement Analysis in Adults and Children (ESMAC) / *Gait & Posture*, Volume 38, Supplement 2, April 2013, Page S81.
6. PETRARCA M, PATANÈ F, **ROSSI S**, CARNIEL S, CAPPÀ P, CASTELLI E “New dynamic posture assessment and training in children with brain damage” Proceedings of 12th Congress of the Italian Society of Clinical Movement Analysis (SIAMOC) / *Gait & Posture*, Volume 37, Supplement 1, April 2013, Pages S12-S13.
7. PETRARCA M, TRAPANNONE A, **ROSSI S**, PATANÈ F, GERMANOTTA M, CAPPÀ P, CASTELLI E “Adaptation to divergent force field in children with CP during robotic reaching training evidenced the inertial forces influence on the movement” Proceedings of 12th Congress of the Italian Society of Clinical Movement Analysis (SIAMOC) / *Gait & Posture*, Volume 37, Supplement 1, April 2013, Pages S14-S15.
8. PALERMO E, **ROSSI S**, PATANÈ F, PETRARCA M, CASTELLI E, CAPPÀ P “Experimental assessment of the effect of magnetic distortion on MIMU gait analysis” Proceedings of 12th Congress of the Italian Society of Clinical Movement Analysis (SIAMOC) / *Gait & Posture*, Volume 37, Supplement 1, April 2013, Page S30.
9. GERMANOTTA M, **ROSSI S**, PETRARCA M, CASTELLI E, CAPPÀ P. “Evaluation of the upper limb motor performance of healthy and pathological children by means of a robotic device and an optoelectronic system” Proceedings of 11th Congress of the Italian Society of Clinical Movement Analysis (SIAMOC) / *Gait & Posture*, Volume 33, Supplement 1, April 2011, Pages S48-S49.
10. GERMANOTTA M, PETRARCA M, **ROSSI S**, CAPPÀ P, CASTELLI E. “Evaluation of vertical forces applied to the end-effector of a planar robot during a rehabilitation session: A case study” Proceedings of 11th Congress of the Italian Society of Clinical Movement Analysis (SIAMOC) / *Gait & Posture*, Volume 33, Supplement 1, April 2011, Pages S13-S14.

11. PETRARCA M, COLAZZA A, PATANÈ F , **ROSSI S**, JACKSON JL, CAPPÀ P, CASTELLI E. "Perturbations on the base of support can be useful for gait recovery in children with CP?" Proceedings of 11th Congress of the Italian Society of Clinical Movement Analysis (SIAMOC) / *Gait & Posture*, Volume 33, Supplement 1, April 2011, Pages S26-S28.
12. PETRARCA M, **ROSSI S**, PATANÈ F, CASTELLI E, CAPPÀ P "Kinematic and Kinetic characteristics of planar reaching during robotized training in children with brain injury" Proceedings of 17th Congress of European Society of Physical and Rehabilitation Medicine (SIMFER) / *European Journal of Physical and Rehabilitation Medicine* Volume 46, Supplement 1, June 2010, Page 226
13. CAPPÀ P, PALERMO E, PATANÈ F, **ROSSI S**, PETRARCA M, CASTELLI E "Feasibility of a functional procedure, operator independent, for wearable inertial measurement units in gait analysis" Proceedings of 18th Meeting of European Society of Movement Analysis in Adults and Children (ESMAC) / *Gait & Posture* Volume 30, Supplement 2, October 2009, Pages S26-S27.
14. PETRARCA M, FORMICA D, **ROSSI S**, ZOLLO L, JACKSON JL, CASTELLI E, GUGLIELMELLI E, CAPPÀ P "The role of gravity and inertial forces on shoulder during pointing task in children with hemiplegia" Proceedings of 18th Meeting of European Society of Movement Analysis in Adults and Children (ESMAC) / *Gait & Posture*, Volume 30, Supplement 2, October 2009, Pages S103-S104.
15. PETRARCA M, **ROSSI S**, MASIA L, FRASCARELLI F, PATANÈ F, DI ROSA G, JACKSON J L, CAPPÀ P, CASTELLI E "Study of day-by-day upper limb planar robotic assistive therapy in children with brain injury" Proceedings of 10th Congress of the Italian Society of Clinical Movement Analysis (SIAMOC) / *Gait & Posture*, Volume 30, Supplement 1, October 2009, Pages S41-S42.
16. **ROSSI S**, PETRARCA M, PATANÈ F, CAPPÀ P, CASTELLI E "Maintenance of equilibrium during a support platform perturbation" Proceeding of the 9th Congress of the Italian Society for Clinical Movement Analysis (SIAMOC) / *Gait & Posture* Volume 29, Supplement 1, January 2009, Page E6.
17. PETRARCA M, **ROSSI S**, L. CATAUDELLA, PATANÈ F, CAPPÀ P "Head behaviour during whole body turn in presence of perturbation of the supporting platform" Proceeding of the 17th Meeting of European Society of Movement Analysis in Adults and Children (ESMAC) / *Gait & Posture* Volume 28, Supplement 2, September 2008, Pages S41-S42.
18. PETRARCA M, CAPPÀ P, PATANÈ F, **ROSSI S**, COLAZZA A, CASTELLI E, BERTHOZ A "Head stabilization and body coordination induced by horizontal oscillation" *Proceeding of the 8th Congress of the Italian Society for Clinical Movement Analysis (SIAMOC)* / *Gait & Posture* Volume 28, Supplement 1, August 2008, Pages S23-S24.

7.3 Peer-reviewed conference proceedings

1. PACILLI A, **ROSSI S**, PATANÈ F, PETRARCA M, CASTELLI E, CAPPÀ P "Effects of floor perturbations on gait kinematics of healthy children and children with hemiplegia" Proceedings of 1st Clinical Movement Analysis World Conference (ESMAC/SIAMOC), Rome, 29 September – 4 October, 2014.
2. ANCILLAO A, **ROSSI S**, PATANÈ F, PACILLI A, CAPPÀ P "Technical quality assurance for the strength measurements performed with a hand held dynamometer" Proceedings of 1st Clinical Movement Analysis World Conference (ESMAC/SIAMOC), Rome, 29 September – 4 October, 2014.
3. ANCILLAO A, **ROSSI S**, PATANÈ F, PACILLI A, CAPPÀ P "Lower limb strength measurements by Hand Held Dynamometer assisted by optoelectronic system" Proceedings of Congresso Nazionale di Misure Meccaniche e Termiche, Ancona, 11 – 13 settembre, 2014.
4. PACILLI A, PATANÈ F, **ROSSI S**, CAPPÀ P "Realizzazione di un robot planare per la riabilitazione posturale di pazienti pediatrici" Atti del terzo Congresso Nazionale del Coordinamento della Meccanica Italiana, Napoli, 30 giugno – 1 luglio 2014.
5. DI MARCO R, **ROSSI S**, PATANÈ F, CAPPÀ P "Technical quality assessment of an optoelectronic system performance for gait analysis purpose" I MEKO joint Symposium 2014, Funchal, Madeira Island (Portugal), 3 – 5 September, 2014.
6. **ROSSI S**, PATANÈ F, DEL SETTE F, CAPPÀ P "WAKE-up: a Wearable Ankle Knee Exoskeleton", 2014 IEEE International Conference on Biomedical Robotics and Biomechatronics, São Paulo, Brazil, 12-15 August, 2014.
7. PATANÈ F, **ROSSI S**, CAPPÀ P "Experimental validation of an impedance controlled parallel robot for postural rehabilitation", 2012 IEEE International Conference on Biomedical Robotics and Biomechatronics, pages 1077 – 1080 Rome, 24 – 28 June, 2012.
8. **ROSSI S**, COLAZZA A, PETRARCA M, CASTELLI E, CAPPÀ P "Cammino di soggetti sani ed emiplegici in presenza di un carico variabile posto sugli arti inferiori" Poster Session del Congresso nazionale SIAMOC, Bosisio Parini 28 settembre – 1 ottobre 2011.
9. PACILLI A, GERMANOTTA M, **ROSSI S**, PETRARCA M, CAPPÀ P "Protocollo sperimentale per lo studio della dinamica articolare nella riabilitazione assistita da robot" Poster Session del Congresso nazionale SIAMOC, Bosisio Parini 28 settembre – 1 ottobre 2011.
10. KREBS HI, **ROSSI S**, KIM S, ARTEMIADIS PK, WILLIAMS D, CASTELLI E, CAPPÀ P "Pediatric anklebot" 2011 IEEE International Conference on Rehabilitation Robotics (ICORR), June 2011, Zurich (Switzerland).
11. CAPPÀ P, PATANÈ F, PETRARCA M, **ROSSI S** "Misura indiretta del centro di pressione mediante sistema robotizzato per posturografia dinamica equipaggiato con celle di carico uniassiali" Atti del VIII Congresso Nazionale di Misure Meccaniche e Termiche, 5-7 luglio 2010, Roma.
12. **ROSSI S**, COLAZZA A, PETRARCA M, CAPPÀ P "Progettazione di un dispositivo robotizzato indossabile per la riabilitazione della caviglia: analisi della massima massa ammissibile" Atti del XXXIX Congresso Nazionale AIAS, 7-10 settembre 2010, Maratea (PZ).

13. CAPPÀ P, PATANÈ F, **ROSSI S** "Indicatori utilizzabili per oggettivare l'efficacia del trattamento robotico" *Congresso di Neuroriabilitazione robotica dell'arto superiore – CORNER*, 14-15 dicembre 2009, Genova.
14. PETRARCA M, ZANELLI G, PATANÈ F, **ROSSI S**, JACKSON J L, CAPPÀ P, CASTELLI E "Disaggregation of reaching inter-joint coordination in children with emiplegia in static and dynamic conditions: alteration in inversion of shoulder and elbow covariation" *Poster Session of European Society of Movement Analysis in Adults and Children (ESMAC)*, October 2009.
15. PETRARCA M, COLAZZA A, **ROSSI S**, PATANÈ F, JACKSON J L, FRASCARELLI F, DI ROSA G, CAPPÀ P, CASTELLI E "Towards a functional gait classification in children with cerebral palsy" *Poster Session of European Society of Movement Analysis in Adults and Children (ESMAC)*, October 2009.
16. CAPPÀ P, PALERMO E, PATANÈ F, **ROSSI S** "Accuratezza nella misura della dinamica del movimento umano mediante l'utilizzo di sensori inerziali" *Atti del XXXVIII Congresso Nazionale AIAS*, 9-11 settembre 2009, Torino.
17. **ROSSI S**, CAPPÀ P, PATANÈ F "Experimental measurement of the ski boot stiffness in sagittal and frontal planes" *Proceedings of IMECE2008 ASME International Mechanical Engineering Congress and Exposition*, October 31-November 6 2008, Boston (MA) USA.
18. CAPPÀ P, PATANÈ F, **ROSSI S** "Dispositivo motorizzato per la misura della rigidità flessionale degli scarponi da sci" *Atti del XXXVII Congresso Nazionale AIAS*, 13-15 settembre 2008, Roma.
19. SCENA S, **ROSSI S** "Confronto di un dispositivo per l'analisi della postura seduta con un sistema optoelettronico" *Atti del XXXVII Congresso Nazionale AIAS*, 13-15 settembre 2008, Roma.
20. BERTHOZ A, CAPPÀ P, PATANÈ F, PETRARCA M, **ROSSI S**, ZANELLI G "Use of a 1-DOF rotating platform to study the rotations of human body on horizontal plane" *Proceeding of ISPGR* pp. 162-163, July 2007 Vermont USA.
21. BERTHOZ A, CAPPÀ P, PATANÈ F, PETRARCA M, **ROSSI S**, ZANELLI G "Head stabilization strategy in presence of floor rotations on horizontal plane" *Proceeding of ISPGR* pp. 164, July 2007 Vermont USA.
22. CAPPÀ P, PATANÈ F, **ROSSI S**, ANGRILLI F, D'EMILIA G, IACONIS F "Sistemi di pesatura di impiego industriale: valutazione sperimentale degli effetti indotti dalla temperatura ambiente e dalle vibrazioni sulle caratteristiche metrologiche" *Atti del V Congresso Nazionale di Metrologia & Qualità*, Marzo 2007, Torino.
23. PETRARCA M, **ROSSI S**, DI ROSA G, CAPPÀ P, CASTELLI E "Gait recovery in children: evidence of effectiveness of ecological rehabilitation in a single case study" *Proceeding of ESMAC* pp. 231, September 2006 Amsterdam Netherlands.
24. CAPPÀ P, PATANÈ F, **ROSSI S** "Estimation of accuracy of an optoelectronic system in the measurement of head inertial components by means of an accelerometer based device"