CURRICULUM VITAE
Juri TABORRI



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1. PERSONAL DATA

Name and Surname	Juri TABORRI
Place and date of birth	20 July 1989, Tivoli (RM)
Address	Via Lago di Garda 2D, 00010 Tivoli (RM), Italy
E-mail	juri.taborri@unitus.it
Mobile number	(+39) 3935291858
Actual position	Assistant Professor (Italian RTD-A)

2. WORK POSITION

Apr 2021 - today	Assistant Professor (Italian RTD lett.a) at Department of Economics, Engineering, Society and Business Organization. SSD: ING-IND/12
Dec 2021 - today	Co-founder innovative start-up "Tech4All srl" for the implementation and commercialization of digital supporting tools based on artificial intelligence for students with special needs

3. EDUCATION AND TRAINING

December 2017	PhD in "Industrial and Management Engineering" at the Sapienza, University of Rome. Thesis titled: "Novel solutions for motion analysis performed with robotic devices and wearable sensors in rehabilitation robotics, clinics and sports" (SSD ING-IND/12).
October 2014	Achievement of the license to practice as an Industrial Engineer (Section A).
January 2014	Master's degree in biomedical engineering (score: 110/110 with honours) at the Sapienza, University of Rome. Experimental thesis related to Biomechanics titled: " Hidden Markov Model distributed to gait detection in an instrumented exoskeleton with inertial sensors".
December 2011	Bachelor's degree in clinical engineering (score: 109/110) at the Sapienza, University of Rome. Experimental thesis related to biological system modelling titled: "Validation of an Asynchronous Brain Computer Interface In Covert Attention".
July 2008	Senior high school specializing in scientific studies (score: 100/100 with honours)

4. RESEARCH ACTIVITIES

4.1 Work experiences

Dec 2021 – today	Co-founder and CPO (Chief Project Office) of the innovative start-up "Tech4All srl"
Apr 2021 - today	Assistant professor (Italian RTD-A) at the Department of Economics, Engineering, Society and Business Organization (University of Tuscia, Viterbo, Italy). SSD ING-IND/12.
Gen 2021 – Feb 2021	Scientific collaborator at the Department of Economics, Engineering, Society and Business Organization (University of Tuscia, Viterbo, Italy). SSD ING-IND/12. Research title: "Metrological characterization of a pressure matrix for posturography analysis and development of acquisition system" (SSD ING-IND/12).
Nov 2017- Ott 2020	Postdoctoral Researcher at the Department of Economics, Engineering, Society and Business Organization (University of Tuscia, Viterbo, Italy). SSD ING-IND/12. Research title: "Measuring motor disability in patients with Multiple Sclerosis" (SSD ING-IND/12).
October 2018	Researcher Visiting at Heidelberg University (Germany). Research topic: kinematic and muscle synergy evaluation in perturbed locomotion

4.2 Visiting

July 2023	Visiting Teacher at the University of Montenegro, within Erasmus+ Mobility Project
April 2023	Visiting Teacher at the Technology University of Tallin, Estonia within Erasmus+ Mobility Project
April 2022	Visiting Teacher at Universidad de Cordoba, Spain withing Erasmus+ Mobility project.
September 2021	Visiting Researcher at Hospital Los Madronos (Brunete, Madrid, Spain). Research topic: Robotic Rehabilitation. Duration: two weeks.
October 2021	Visiting Researcher at Heidelberg University (Heidelberg, Germany). Research topic: Kinematics and muscle synergies during perturbed locomotion. Duration: one month.

4.3 Research Projects

Dec 2023 - today	**ERASMUS+** "UNITE – University Network for Innovative and Digital Education"; as principal investigator, scientific coordinator and project manager Financed by UE: 400.000,00 €
Nov 2022 - today	**ERASMUS+** "ISENSE – Innovative Supporting Technologies for Students with deafness"; as project manager and researcher
Apr 2022 - today	**Project for patent submission** "Project for an upper limb exoskeleton with haptic interface and virtual reality environment for simulated dynamics" Financed by DEIM-UNITUS 5.000,00 €. Role: Scientific Responsible
Mar 2022 - today	**Project for third mission of University**

	TU SEI – Tuscia per i Sordi: OriEntamento Inclusivo "Development of digital tools for university orientation addressed to students with deafness". Financed by DEIM-UNITUS 4.000,00 €. Role: Scientific Responsible
Sept 2021 - oggi	**EUROBENCH – H2020** "TO RANK – Testing and Optimizing of a Robotic Ankle"; as researcher and social manager
Apr 2021 – today	**POR FESR Lazio 2014 – 2020 "Gruppi di Ricerca"**: "RAISE – Rehabilitation of the Arm in Immersive and Simulated environments"; as researcher
Apr 2021 - today	**LIOO** **"**Laboratorio dell'innovazione della filiera olivicola-olearia"; as Researcher
Sept 2020 - today	**ERASMUS+** "VRAILEXIA – Virtual Reality and Artificial Intelligence for dyslexia"; as internal scientific coordinator
Feb 2020 – today	**BRIC INAIL** "SIDE – Design of an upper limb exoskeleton for simulated dynamic and haptic interface"; as researcher.
May 2018 – today	**EUROBENCH – H2020** "B.E.A.T - Balance Evaluation Automated Testbed"; as researcher and social manager.
April 2018 – today	**POR FESR Lazio 2014 – 2020 "Bioedilizia e Smart Building"**: "BES/T Building Efficiency System by Television"; as researcher.
Nov 2017 – today	**PCORI project:** "A multicentric randomized pragmatic trial to compare the effectiveness of fingolimod versus dimethyl-fumarate on patient overall disease experience in relapsing-remitting multiple sclerosis: novel data to inform decision – makers"; as researcher.
Nov 2017 – today	**POR FESR Abruzzo 2014 – 2020** "Electric Beam Machine (EBM)"; as project manager.
Ott 2014 – July 2015	**IIT Project**: "ITINERE: Interactive Technology: an Instrumented Novel Exoskeleton for Rehabilitation"; as PhD Student .

4.4 Research Collaborations

Nov 2021 - today	Coordinator of the research group "Innovative technologies for inclusive education" – University of Tuscia
July 2021 - today	Spanish National Research Council
Oct 2019 - today	Participant at research group "Movement Analysis" – University of Tuscia.
Oct 2019 - today	Participant at research group "Robotics and Virtual Reality" – University of Tuscia.
Nov 2017 – today	AIPE, research title: "Acoustic Emission methodology for structural conformity assessment of LPG tank".
Nov 2017 – today	Neurological Institute Besta of Milan for PCORI project.
Nov 2017 - today	Motustech srl, research title: "Validation of an automatic algorithm based on inertial sensor data for the identification and counting of

	technical actions in workers".
Nov 2016 - today	CONI, research title: "Validation of algorithm for sport gesture recognition and athlete performance assessment".
Mar 2013 – today	Paediatric Hospital "Bambino Gesù", Italy, research field: human motion analysis in neuromuscular diseases.

4.5 Patents

Nov 2023	National Patent pending "Upper Limb Wearable Exoskeleton"
2017	National patent "Procedure and device for recognition of walking race condition during walking race"

4.6 Start-up

Dec 2021 - today	Co-founder innovative start-up "Tech4All srl" for the implementation and commercialization of digital supporting tools based on artificial intelligence for students with special needs

4.7 Publications

Please see the Appendix

4.8 National and International Conferences

September 2024	Speaker at National Conference "Forum delle Misure", San Vincenzo (Italy)
October 2023	Speaker at International Conference "IEEE MetroXRAINE", Milan (Italy)
September 2023	Speaker at National Conference "Forum delle Misure", Bologna (Italy)
June 2023	Speaker at International Conference "IEEE MeMeA", Jeju (South Korea)
June 2023	Special Session Organizer and Chair at the International Conference "IEEE MeMeA", Jeju (South Korea) – Special Session "Sensor- and AI-based methods as diagnostic and monitoring tools for clinical applications"
May 2023	Speaker at International Conference "IEEE I2MTC", Kuala Lumpur (Malaysia)
May 2023	Special Session Organizer and Chair at the International Conference "IEEE I2MTC", Kuala Lumpur (Malaysia) – Special Session "Smart textile-based instruments for industrial applications"
October 2022	Special Session Organizer and Chair at the International Conference "IEEE MetroXRAINE", Rome (Italy) – Special Session "Sensors, extended reality and artificial intelligence for human behavior analysis"
October 2022	Speaker at International Conference "IEEE MetroXRAINE", Rome (Italy)
September 2022	Speaker at National Conference "Forum delle Misure", Brescia (Italy)
May 2022	Speaker at International Conference "IEEE I2MTC", Ottawa (Canada).

September 2021	Speaker at National Conference "Forum delle Misure", Giardini Naxos (Sicily, Italy)
June 2021	Speaker at International Conference "IEEE MeMeA", online
September 2020	Speaker at National Conference "Forum delle Misure", online
June 2020	Speaker at International Conference "IEEE Metrology for Industry 4.0 and IoT", online
September 2019	Speaker at National Conference "Forum delle Misure", Perugia (Italy).
June 2019	Speaker at International Conference "IEEE MeMeA", Istanbul (Turkey).
June 2019	Speaker at International Conference "IEEE Metrology for Industry 4.0 and IoT", Naples (Italy).
April 2019	Speaker at International Conference "1st EPERC", Roma (Italy)
September 2018	Speaker at National Conference "Forum delle Misure", Padova (Italy).
September 2017	Speaker at National Conference "Forum delle Misure", Modena (Italy).
May 2017	Speaker at International Conference "IEEE I2MTC", Turin (Italy).
May 2016	Speaker at International Conference "IEEE MeMeA", Benevento (Italy).
May 2015	Speaker at International Conference "IEEE MeMeA", Turin (Italy).

4.9 Editorial Activities

2023 - today	Associate Editor for Frontiers in Medical Engineering
2022 - today	Special Session Editor for IEEE MetroXRAINE conference
2023 - 2024	Guest Editor – MDPI Biosensors
Jan – Mar 2024	Associate Editor for the International Conference on Biomedical Robotics and Biomechatronics (BioRob)
2020 – 2023	Lead Guest Editor – MDPI International Journal of Environmental Research and Public Health
2020 – today	Topic Editor Team– MDPI International Journal of Environmental Research and Public Health
2019 – 2020	Lead Guest Editor – Applied Bionics and Biomechanics
2019 – 2021	Lead Guest Editor – MDPI Healthcare
2019 – today	Topical Advisory Panel Member – MDPI Healthcare
2017 – today	Reviewer international journals: Sensors, Frontiers, Applied Science, Measurements, Gait&Posture, IEEE Sensors Journal etc.

5. TEACHING ACTIVITIES

5.1 University courses

2024 - today	Tenured professor "Measurements and Sensors for Green Building"

	for Technologies for Green Building at University of Tuscia, Viterbo. Language: Italian.
2024 - today	Tenured professor “Functional Rieducation” for Sport Science at University of Tuscia, Viterbo. Language: Italian.
2024 - today	Tenured professor “Biomechanics Laboratory” for Mechanical Engineering at University of Tuscia, Viterbo. Language: English.
2023 – today	Tenured professor “Fundamentals of Measurements” for Industrial Engineering at University of Tuscia, Viterbo. Language: Italian
2022 - 2024	Tenured professor “Digital Engineering applied to Agriculture - Sensors” (ING-IND/12). Master’s degree in digital management of agriculture and mountains, University of Tuscia Viterbo. Language: Italian.
September 2021 - today	Tenured professor “Non-destructive testing methods” (ING-IND/12). Master’s degree in mechanical engineering, University of Tuscia Viterbo. Language: Italian and English.
September 2021	Workshop (4h) on “Metrological rigor in data acquisition and AI applications in biomechanics” for the Master in “Artificial Intelligence for Business & Security” – Tuscia University. Language: English.
AY 2020-21	Adjunct Professor for “Non-destructive testing methods” (ING-IND/12). Master’s degree in mechanical engineering, University of Tuscia Viterbo. Language: Italian and English.
Mar 2019 – July 2019	Adjunct Professor for “Informatics” at Political Science and International Relations, Tuscia University, Viterbo. Language: Italian
May 2019 – June 2019	Assistant Professor “Sensors and data acquisition system” (ING/IND-12) for Erasmus students, bachelor’s degree in industrial engineering, University of Tuscia Viterbo. Language: English
Nov 2017- today	Assistant Professor “Sensors and data acquisition system” (ING/IND-12) master’s degree in mechanical engineering, University of Tuscia Viterbo. Language: Italian.
Nov 2017- today	Assistant Professor “Mechanical and Thermal Measurements” (ING/IND-12) bachelor’s degree in industrial engineering, University of Tuscia Viterbo. Language: Italian.
Oct 2015 – Oct 2017	Assistant Professor “Mechanical Measurement” (ING/IND-12) bachelor’s degree in clinical engineering, Sapienza, University of Rome. Language: Italian.
Oct 2015 – Oct 2017	Assistant Professor “Measurements for Energy Systems and Production” (ING/IND-12) master’s degree in Energy Engineering, Sapienza, University of Rome. Language: Italian.
Oct 2015 – Oct 2017	Assistant Professor “Industrial Measurements” (ING/IND-12) master’s degree in mechanical engineering, Sapienza, University of Rome. Language: English.
Oct 2014 – Oct 2017	Assistant Professor “Biomechanics” (ING/IND-12) master’s degree in biomedical engineering, Sapienza, University of Rome. Language: Italian.

5.2 Invited teaching

June 2024	Workshop (8h) on “Metrological rigor in data acquisition and AI applications in biomechanics” for the Sport Science – University of Central Lancashire – Cyprus (within Erasmus+ teaching mobility). Language: English.

June 2023	Workshop (8h) on “Metrological rigor in data acquisition and AI applications in biomechanics” for the Master in “Mechanical Engineering” – University of Montenegro (within Erasmus+ teaching mobility). Language: English.
April 2023	Workshop (8h) on “Metrological rigor in data acquisition and AI applications in biomechanics” for the Master in “Mechanical Engineering” – Technology University of Tallinn (within Erasmus+ teaching mobility). Language: English.
April 2022	Workshop (8h) on “Metrological rigor in data acquisition and AI applications in biomechanics” for the Master in “Mechanical Engineering” – Universidad de Cordoba (within Erasmus+ teaching mobility). Language: English.

6. INSTITUTIONAL ROLE

Dec 2023 - today	Member of the Quality Commission for Mechanical Engineering
Mar 2023 – today	Scientific coordinator of the Laboratory of Metaverse for Innovative and Inclusive Teaching - UNIverTUS
Nov 2021 - today	Coordinator of the research group “Innovative technologies for inclusive education” – University of Tuscia
July 2022 - today	Representative for the Department of Economics, Engineering, Society and Business Organization in the “Table for innovative teaching methodologies” at University of Tuscia.
March 2022 - today	Representative for management of research project for Industrial Engineering, Mechanical Engineering and Design – University of Tuscia.
September 2021 - today	Representative for the social media for Industrial Engineering, Mechanical Engineering and Design – University of Tuscia.
June 2021 - today	Member of academic board of the PhD in “Engineering for Energy and Environment” – University of Tuscia.

7. AWARDS

October 2022	“Best Conference Paper Award” for the proceeding “Artificial Neural Network for the identification of postural instability in subject wearing lower limb exoskeleton"” – IEEE MetroXRAINE.
October 2022	Teaching award for “Non-destructive testing methods” related to academic year 2020-21. Awarded as the best professor in scientific field for classes with less than 40 students. Price money: €1.000,00
September 2021	Grant for the e-cost action CA16116 “Wearable Robots for Augmentation, Assistance or Substitution of Human Motor Faction”, for the project “Validation of testbeds and data acquisition for wearable benchmark”. Grant agreement: €2.150,00.
June 2021	“Domenico Grimaldi Best Paper Award” for the proceeding “Repeatability and reproducibility in the breathability measurement

	of surgical masks" – IEEE MeMeA.
July 2020	National Academic Qualification for Associate Professor SSD ING-IND/12.
December 2018	Best PhD Thesis on disability, Sapienza, University of Rome.
October 2015	Travel grant for participation at 2nd edition "BSMS Autumn School" (Berlin School Movement Science), Berlin 4-9 October 2015.
April 2014	Excellent graduated of the Faculty of Civil and Industrial Engineering for the academic year 2012.2013. Sapienza, University of Roma e Foundation Sapienza-Association ex-Alumni.

8. OTHER EXPERIENCES

November 2018 - today	Member of the group "Research project" of the Department of Economics, Engineering, Society and Business Organization at University of Tuscia. Role: writing and business reporting of the projects.
November 2017 - today	Lecturer for secondary school student internship
November 2017 - today	Co-supervisor of master and bachelor theses for Industrial and Mechanical Engineering - University of Tuscia
October 2015	Participation at the Berlin School Movement Science
August 2015	Course of technical English at "Pace University" – New Yorlk, US. Duration: two weeks.
Nov 2014 – Ott 2017	Co-supervisor of master and bachelor theses for Biomedical and Mechanical Engineering - University of Sapienza

9. SKILLS

9.1 Language

Native	Italian
English	• Understanding: Reading (C2) – Listening (C1) • Speaking: Oral Interaction (C1), Oral Production (C1) • Writing: C2
Others	Base knowledges French and Spanish
August 2015	Certificate of Attendance- Course "The 2-week Intensive Business English Program" at Pace University Midtown Centre in New York City
July 2005	Certificate of Attendance- Course "English as a foreign Language" at Embassy CES London SouthBank (Level 4- Upper Intermediate)- July 2005. Trinity Level: 10

9.2 Informatic

- High familiarity with operating systems Windows e MC-OS
- Excellent skills in Microsoft Office (Word, Excel, Power Point, Access) with relative certifications ECDL (June 2007). Excellent skills in Internet and Email
- Proficient in programming with MATLAB and Octave, familiarity with LabView, and Arduino

- Proficient in software for data capture of inertial sensors (MT-Manager), electromyography (Wave Cometa) and opto-electronic systems (Nexus)
- High confidence in program for statistical analysis (SPSS)

June 2024 Dott. Juri TABORRI



APPENDIX

Bibliometric Indices

(Scopus 09/2024)

Article number: 66 H-index: 18 Citations: 1293

Publication list

Journal articles

Zingoni A, **Taborri J**, Calabrò G, " A machine learning-based classification model to support university students with dyslexia with personalized tools and strategies", Scientific Reports 2024

Morciano G, …, **Taborri J** "Use of recommendation models to provide support to dyslexic students", Expert Systems with Applications 2024

Taborri J et al. "Comparison of Machine Learning Algorithms Fed with Mobility-related and Baropodometric Measurements to identify Temporomandibular Disorders", Sensors 2024

Materazzini M, …., **Taborri J** "Which Are the Needs of People with Learning Disorders for Inclusive Museums? Design of OLOS®—An Innovative Audio-Visual Technology", Applied Sciences 2024

Ceriola L., **Taborri J**, … "Comparative Analysis of Markerless Motion Capture Systems for Measuring Human Kinematics", IEEE Sensors Journal

Taborri J, …., "" WARNING: A Wearable Inertial-Based Sensor Integrated with a Support Vector Machine Algorithm for the Identification of Faults during Race Walking", Sensors 2023

Molinaro L, **Taborri J**, …, " Measuring the Immediate Effects of High-Intensity Functional Training on Motor, Cognitive and Physiological Parameters in Well-Trained Adults", Sensors 2023

Mileti I, **Taborri J**, …. " Feasibility and Application of the B.E.A.T. Testbed for Assessing the Effects of Lower Limb Exoskeletons on Human Balance", Robotics 2022

Santuz A, …., **Taborri J**, …. "Sex-specific tuning of modular muscle activation patterns for locomotion in young and older adults", PlosOne 2022

Baldazzi A, …, **Taborri J**, ... "Reliability of wearable sensors-based parameters for the assessment of knee stability", PlosONe 2022

Benedetti I, …., **Taborri J**, …. "Clustering analysis of factors affecting academic career of university students with dyslexia in Italy", Scientific Reports 2022

Filippi S, … **Taborri J**, … "CSA Antisense Targeting Enhances Anticancer Drug Sensitivity in Breast Cancer Cells, Including the Triple-Negative Subtype", Cancers 2022

Taborri J et al, "On the Breathability Measurement of Surgical Masks: Uncertainty, Repeatability and Reproducibility Analysis", TIM 2022

Taborri J et al, "Measuring Kinematic Response to Perturbed Locomotion in Young", Sensor 2022

Taborri J et al, "Preventing and monitoring work-related diseases in firefighters: A literature review on sensor-based systems and future perspectives in robotic devices", IJERPH 2021

Molinaro L, **Taborri J, ….,** "Sensor-based indices for the prediction and monitoring of anterior cruciate ligament injury: Reliability analysis and a case study in basketball", Sensors 2021

A.Zingoni, **Taborri J**., …. "Investigating issues and needs of dyslexic students at university: Proof of concept of an artificial intelligence and virtual reality-based supporting platform and preliminary results" Applied Science 2021

Taborri J et al, " A Machine-Learning Approach to Measure the Anterior Cruciate Ligament Injury Risk in Female Basketball Player", Sensors 2021

D'Antonio, **Taborri J,** . "Validation of a 3D Markerless System for Gait Analysis Based on OpenPose and Two RGB Webcams", IEEE Sensors Journal 2021

Armentano I, …, **Taborri J**, … Polymer Materials for Respiratory Protection: Processing, End Use, and Testing Methods, ACS Applied Polymer Materials 2021

Taborri J et al, " Reliability and repeatability analysis of indices to measure gait deterioration in ms patients during prolonged walking", Sensors 2020

Taborri J et al. " Sport biomechanics applications using inertial, force, and EMG sensors: A literature overview", Applied Bionics and Biomechanics 2020

Molinaro L***, Taborri J.*,** Montecchiani M, Rossi S " Assessing the effects of kata and kumite techniques on physical performance in elite karatekas", Sensors, 2020

Taborri J. et al. "On the OCRA measurement: Automatic computation of the dynamic technical action frequency factor, Sensors 2020"

Mileti I, **Taborri J**, Rossi S, Del Prete Z, Paoloni M, Suppa A, Palermo E "Reactive Postural responses to continuous yaw perturbation in healthy humans: the effect of aging", Sensors, 2019

Scalona E, **Taborri J**, Hayes DR, Del Prete Z, Rossi S, Palermo E "Is the neuromuscular organization of throwing unchanged in virtual reality? Implications for upper limb rehabilitation", Electronics, 2019

Martelli F, **Taborri J.**, Del Prete Z, Palermo E, Rossi S "Quantifying age-related differences of ankle mechanical properties using a robotic device", Robotics, 2019

J. Taborri et al. "Automatic detection of faults in Race Walking: a comparative analysis of machine-learning algorithms fed with inertial sensor data", Sensors, Vol. 19(6), 2019

J.Taborri et al., "On the reliability and repeatability of surface electromyography factorization by muscle synergies in daily life activities," *Appl. Bionics Biomech., Volume 2018, Article ID 5852307, 2018*

J. Taborri et al., "Feasibility of muscle synergy outcomes in clinics, robotics, and sports: A systematic review," *Appl. Bionics Biomech*., vol. 2018, Article ID 3934698

Germanotta M.*; **Taborri J.*;** Rossi S.;Frascarelli F.; Palermo E.; Cappa P.; Castelli E.; Petrarca M. Spasticity measurement based on tonic stretch reflex threshold in children with Cerebral Palsy using pediAnklebot. *Frontiers in Human Neuroscience* 2017, 11(277).

Patanè F.; Rossi S.; Del Sette F.; **Taborri J.**; Cappa P. WAKE-up exoskeleton to assist children with Cerebral Palsy: design and preliminary evaluation in level walking. *IEEE Trans on Neural System and Rehabilitation Engineering* 2017

Taborri J.; Palermo E.; Rossi S.; Cappa P. Gait partitioning methods: a systematic review. *Sensors* 2016, 16(1), 66

Taborri J. *; Scalona E. *; Palermo E.; Rossi S.; Cappa P. Validation of inter-subject training for Hidden Markov Models applied to gait phase detection in children with cerebral palsy. *Sensors* 2015, 15(9), 24514-24529.

Taborri J..; Rossi S.; Palermo E.; Patanè F.; Cappa P. A novel HMM distributed classifier for detection of gait phases by means of a wearable inertial sensor network. *Sensors* 2014, 14, 16212-16324.

Conference proceedings

Taborri J et al. "Comparing Supervised Machine-Learning Algorithms to Measure the Number of Technical Actions in Industrial Environments", 2024 IEEE International Conference on Metrology for eXtended Reality, Artificial Intelligence and Neural Engineering, MetroXRAINE, Milan, Italy

Bisio A**, …, Taborri J** et al. "Training Program on Sign Language: Social Inclusion Through Virtual Reality in ISENSE Project", 2024 IEEE International Conference on Metrology for eXtended Reality, Artificial Intelligence and Neural Engineering, MetroXRAINE, Milan, Italy

Alcalde-Llergo J., …, **Taborri J**., …,"A VR Serious Game to Increase Empathy Towards Students with Phonological Dyslexia", 2024 IEEE International Conference on Metrology for eXtended Reality, Artificial Intelligence and Neural Engineering, MetroXRAINE, Milan, Italy

Ceriola L, …, **Taborri J,** …, "Comparison of Two Video-Based Methods for Knee Joint Angle Measurement: A Preliminary Study", 2024 IEEE International Conference on Metrology for eXtended Reality, Artificial Intelligence and Neural Engineering, MetroXRAINE, Milan, Italy

Taborri J et al. "The Use of Artificial Intelligence for Sign Language Recognition in Education: From a Literature Overview to the ISENSE Project", 2024 IEEE International Conference on Metrology for eXtended Reality, Artificial Intelligence and Neural Engineering, MetroXRAINE, Milan, Italy

Molinaro L, **Taborri J,** … " Assessment of cognitive skills in karatekas pre-post technical training", 2023 *IEEE International Symposium on Medical Measurements and Applications (MeMeA),* Jeju, South Korea

Mileti, I, Pasinetti S, **Taborri J**, …. " Realization and validation of a piezoresistive textile-based insole for gait-related measurements", *International Instrumentation and Measurement Technology Conference (I^2MTC) 2023, Kuala Lumpur, Malaysia*

Mileti I, **Taborri J** , … " Artificial Neural Network for the identification of postural instability in subject wearing lower limb exoskeleton", 2022 *IEEE International Workshop on Metrology for Extended Reality Artificial Intelligence and Neural Engineering (MetroXRAINE),* Rome, Italy

Molinaro L, …, Taborri J, … " Reliability analysis of an innovative technology for the assessment of spinal abnormalities", 2022 *IEEE International Symposium on Medical Measurements and Applications (MeMeA),* Sicily, Italy

Mileti I, **Taborri J**, …. " The assessment of inertial odometry system performance in tracking upper limb kinematics", I2022 EEE *International Instrumentation and Measurement Technology Conference (I^2MTC),* Ottawa, Canada

Mariani G**, Taborri J, ….** "Design and characterization of a smart fabric sensor to recognize human intention for robotic applications", 2022 IEEE *International Workshop on Metrology for Industry 4.0 and IoT (MetroInd), Trento, Italy*

Taborri J et al. "Repeatability and reproducibility in the breathability measurement of surgical masks", 2021 *IEEE International Symposium on Medical Measurements and Applications (MeMeA), online*

Molinaro L, **Taborri J**, Rossi S, "Baropodometric analysis in different feet positions: Reliability and repeatability evaluation", 2021 *IEEE International Workshop on Metrology for Industry 4.0 and IoT (MetroInd), online*

D'Antonio E, **Taborri J**, Palermo E, Rossi S, Patanè F, "Characterization of a low-cost markerless system for 3D gait analysis", 2020 *IEEE International Symposium on Medical Measurements and Applications (MeMeA), online*

Molinaro L, Santospagnuolo A, Vulpiani M.C., **Taborri J**, Vetrano M, Rossi S, "Can the measurements of leg stability during jump landing predict and monitor anterior cruciate ligament injury? A case report of basketball players", 2020

IEEE International Symposium on Medical Measurements and Applications (MeMeA), online

Mileti I, **Taborri J**, D'Alvia L, Parisi S, Ditto MC, Peroni C, Scarati M, Priora M, Rossi S, Fusaro E, Del Prete Z, Palermo E "Accuracy evaluation and clinical application of an optimized solution for measuring spatio-temporal gait parameters", 2020 *IEEE International Symposium on Medical Measurements and Applications (MeMeA), online*

Taborri J, Salvatori S, Mariani G, Rossi S, Patanè F, "BEAT: Balance Evaluation Automated Testbed for the standardization of balance assessment in human wearing exoskeleton", Workshop on Metrology for Industry 4.0 and IoT, *online*

D'Antonio E, **Taborri J.**, Palermo E., Rossi S., Patanè F, " A markerless system for gait analysis based on OpenPose library", I2MTC 2020 - International Instrumentation and Measurement Technology Conference

I. Mileti, .., **J. Taborri** et al. "Parkinson's disease and Levodopa effects on muscle synergies in postural perturbation", 2019 *IEEE International Symposium on Medical Measurements and Applications (MeMeA), Istanbul*

J.Taborri et al. "Measuring changes in gait kinematics due to walking-related fatigue in patients with Multiple Sclerosis" 2019 *IEEE International Symposium on Medical Measurements and Applications (MeMeA), Instanbul*

J.Taborri et al. "Automatic identification and counting of repetitive actions related to an industrial worker", II Workshop on Metrology for Industry 4.0 and IoT, Naples, June 4-6 2019.

J. Taborri, I. Mileti, Z. Del Prete, S. Rossi, and E. Palermo, "Yaw Postural Perturbation Through Robotic Platform: Aging Effects on Muscle Synergies," in 2018 *7th IEEE International Conference on Biomedical Robotics and Biomechatronics (Biorob)*, 2018, pp. 916–921.

I. Mileti, **J.Taborri** et al., "Measuring age-related differences in kinematic postural strategies under yaw perturbation," in 2018 *IEEE International Symposium on Medical Measurements and Applications (MeMeA)*, 2018, pp. 1–6.

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