Wednesday 9th

"FALOCI PULIGNANI" CONFERENCE HALL, PALAZZO TRINCI, Piazza della Repubblica 25

9.00-10.15	*Registration*
10.15-11.00	***Opening Ceremony***
11.00-11.30	*Coffee Break*
	Plenary Lectures
11.30-12.00	***Engaging Generation Z in the Science of Machines and Mechanisms Through a Student-Centered Approach*** Prof. Paulo Flores
12:00-12.30	***Riding Robotics and Ability Mining*** Prof. Masaharu Komori
12:30-12:45	***O.M.G. Company Milestones and Cooperation with UniPG in the field of Mechanisms and Machine Science*** Eng.Luca Galletti
12.50	*Walking to CENTRO STUDI*

CENTRO STUDI Via Oberdan 123

13.00-14.15	*Lunch Buffet (Room Aula Picuti)*			
	Room 1 - Biomechanical Engineering *Chairpersons: Visconte C.; Bertin M.*	**Room 2 - Adaptive and Assistive Robotic Gripping** *Chairpersons: Antonelli M.G., Malvezzi M.*	**Room 3 - Mechatronics for Healthcare and Biomedical Applications** *Chairpersons: Ceccarelli M., Takeda Y.*	**Room AULA SENSI - Robotics1** *Chairpersons: Quaglia G., Dede M.*
14.15-14.30	Kinematic design of assistive exoskeletons for upper-limb *Authors: **Bertin, M.** , Cocuzza, S., Palomba, I.*	User-centered design of an artificial finger for hand assistive and rehabilitation robotics *Authors: Angelella, S., **Logozzo, S** ., Valigi, M.C*	Design and Experimental Evaluation of Gripping Mechanisms for Automated Sewing of Biological Heart Valves *Authors: **Astuti, S** ., Di Michele, A., Maffiodo, D., Mazza, L., Trivella, A., Raparelli, T.*	Liquid Outflow Velocity Estimation for Tele-Pouring Assistance *Authors: **Kato, F.** , Miura, S.*
14.30-14.45	Ergonomic Design of a Pediatric Driving Workstation for Neurocognitive Rehabilitation Using Biomechanical Simulation *Authors: **Perrelli, M.** , Cosco, F., Alvaro, F., Gorgone, G., Mundo, D.*	Design of a rod-driven soft enveloping gripper *Authors: **Perini, A** ., Russo, M.*	Design and testing of ASSIST-shoulder device for motion assistance of shoulder articulations *Authors: **Ceccarelli, M.**, Russo, M., Ofonaike, E., Morales-Cruz, C.*	Kinematic Design and Experimental Validation of a 3-DOF Ankle Rehabilitation Exoskeleton with Wireless Control Architecture *Authors: **Zhetenbayev, N** ., Duisebayeva, A., Tursunbayeva, G., Uzbekbayev, A., Sultan, A., Sergazin, G.*
14.45-15.00	*AI assisted classification of zebrafish embryos for automatic injection systems* *Authors: **Micheletti, I.** , Charkas, S., Diouf, A., Pagani, R., Haliyo, S., Legnani, G., Fassi, I.*	Experimental assessment of industrial gloves on dexterity and force exertions *Authors: **Caselli, E** ., Ghibaudo, L., Spada, S., Silvagni, M., Cavatorta, M., Gastaldi, L.*	Design of a reconfigurable gynecologic phantom for robotic surgery training and demonstration *Authors: **Kierbel, C.** , Ming, J., Russo, M., Takeda, Y.*	Controller-Driven Hand-Eye Vision System for KUKA LBR iiwa Robot *Authors: Boscariol, P., Boschetti, G., **Minto, R.***
15.00-15.15	Model Based Control Architecture for a Gait Rehabilitation Exoskeleton *Authors: Durante, F., **Sambrotta, C.** , Beomonte Zobel, P.*	Adaptive Manipulation: Development of a Reconfigurable Three-Fingered Soft Pneumatic Gripper with Integrated Sensing *Authors: **Stampone, N** ., Antonelli, M.G., Beomonte Zobel, P.*	Performance Analysis and Experimental Validation of CABLEAnkle System *Authors: **Mastrangelo, G.**, Chaparro Rico, B., Russo, M., Ceccarelli, M., Cafolla, D.*	A Biofueled Renewable Minimally-Critical Biodegradable Easy-to-Disassemble Robotic Manipulator: Initial Design *Authors: **Zocco, F.** , Dragusanu, M., Malvezzi, M.*
15.15-15.30	Preliminary design of the actuation system of a wearable upper limb exoskeleton *Authors: Colucci, G., Bertin, M., Palomba, I., Frezza, A., Tagliavini, L., Carbonari, L.,**Visconte, C.***	Data-Driven Tracking of Wrist Motions for a Soft Exoskeleton Based on Twisted String Actuators Authors:**Shekar Ayu Supriyono** , C., Dragusanu, M., Hasan, M., Malvezzi, M.	Experimental Characterization of an Independent Link-Type Walking assisting device for Individuals with Limited Ankle Dorsiflexion Range of Motion *Authors: **Saito, T** ., Jiang, M., Ibara, T., Ceccarelli, M., Takeda, Y.*	Humanoid Robotics in Industrial Contexts: Critical Assessment and Hybrid Architectural Approach *Authors: **Ponzetti, S.**, Neri, F., Callegari, M., Baldarelli, D.*
15.30-15.45	Biomechanics of sprint running through markerless video analysis: impact of carbon shoes on technique and efficiency in competitive athletes. *Authors: **Dammicco, A** ., Reina, G.*	AI-Driven Bin Picking with Low-Cost Stereo Vision: From Perception to Grasp Execution *Authors: **Dostrašil, D.***	Experimental characterization of Uc3m sensored crank device for arm exercise *Authors: **Sanz Sánchez, S.** , Marín, P., diaz, V., Ceccarelli, M.*	Separation Frame Assignment for Constrained Physical Human-Robot Interaction Scenarios *Authors: **Dede, M.**, Deniz, M., Mobedi, E., Tagliavini, L., Quaglia, G.*
15.45-16.00	A Manipulability-Based Model of Maximum Crank Torque in Cycling *Authors: **Paglialonga, F** ., Soria, L., De Carolis, S., Mummolo, C.*	Experimental Evaluation of Technical Gesture Analysis in Para-Standing Tennis *Authors: **Digo, E** ., Cornagliotto, V., De Vito, C., Di Vincenzo, G., Gastaldi, L.*	Assist-as-Needed Control of a Chair-Type Device for Sit-to-Stand Assistance *Authors: Jiang, M., Kim, S., Zheng, J., Ohkubo, T., **Takeda, Y.***	A comparative analysis of ROS2-compatible robotic simulators *Authors: **Boschi, I.** , Ida', E., Carricato, M.*
16.00-16.30	*Coffee Break (Room Aula Picuti)*			
	Room 1 - Gearing and Transmissions *Chairpersons: Camalleri M., Castellano A.*	**Room 2 - Advanced Technologies for Ground and Space Mobility Applications (Special Session)** *Chairpersons: Savino S., Morettini G.*	**Room 3 - Dynamics of Machinery and multiphysics modeling** *Chairpersons: Figliolini G., Maddio P.*	**Room AULA SENSI- History and Education** *Chairpersons: Ceccarelli M., Bruzzone L.*
16.30-16.45	Calculation Method of Semi-Conjugate Profiles for Inner D-cut Shape Based on Gear Meshing Theory *Authors: **Nagahara, E.** , Matsuura, D., Kobayashi, T.*	A novel automated test rig for remote optical sensing in space applications *Authors: **Angelella, S.** , Logozzo, S., Valigi, M.C*	A Penalty Contact Formulation based on Intersection Area for Planar Multibody Systems *Authors: **Maddio, P.** , Sinatra, R., Cammarata, A.*	Mechanisms, math and groceries: the computing cheese cutter *Authors: **Boscariol, P.***
16.45-17.00	Electric power recirculation in multimode power-split HEVs: implications for transmission design *Authors: **Castellano, A.**, Cammalleri, M.*	Mechanical and Thermal Insulation Design for a Balloon-Borne CubeSat Platform: Experimental Assessment for Mechanical Survivability in Stratospheric Flights *Authors: **Merli, F.**, Morettini, G., Buratti, C., Cianetti, F., Dionigi, M.*	Dynamic modelling of multibody system with one d.o.f. *Authors: Figliolini, G., **Fauceglia, F.**, Tomassi, L.*	Porto Marghera: rise, decline and reconversion of one of the largest industrial ports in Europe *Authors: **Gasparetto, A.***
17.00-17.15	Method of creating a computational model of the IRT indexing rotary table using AI *Authors: Ondrášek, I., **Klein, F.***	Performance of AM-Integrated Hysteresis Rods for Passive Nanosatellite Stabilization in LEO Scenarios *Authors: **Foiani, F** ., Stella, M., Morettini, G., Dionigi, M., Faba, A., Cianetti, F., Carletta, S.*	Dynamic analysis of a railway pantograph based on a simplified Multibody model *Authors: Strano, S., Terzo, M., **Tordela, C.***	Historical background and development of bucket chain excavators *Authors: **Zmić, N.**, Gnjatović, N., Solazzi, L., Bošnjak, S.*
17.15-17.30	Preliminary Study on RL-Based IPMSM Rotor Design for Torque Enhancement *Authors: **Maezono, T.** , Endo, M., Tsutsui, Y.*	Multisensor Terrain Awareness for Safe and Sustainable Agricultural Robotics in Challenging Environments *Authors: **Galati, R.**, Ugenti, A., Amodio, F., Tagliavini, L., Colucci, G., Botta, A., Carabin, G., Gronauer, A., Quaglia, G., Reina, G.*	PMD: an open-source framework for planar multibody dynamics *Authors: **Cangi, G.**, Palmieri, M., Cianetti, F.*	A industry-university collaboration scheme based on a Collaborative problem definition technology circulation model *Authors: **Kato K.**, Fushinobu, K., Takeda, Y.*
17.30-17.45	Nonlinear analytical modulation of curved flexure hinges with a circular center *Authors: **Jahn, H.**, Fröhlich, T., Zentner, L.*	Design of an instrumented electric vehicle for tire and road wear particle (TRWP) sampling: a focus on representativeness *Authors: **Lucherini, S.**, Celenlioglu, M., Vecchi, R., Lippiello, F., Genovese, A.*	Multi-Level Dynamic Characterisation of Off-Road Mobility-Assist Vehicle Frames *Authors: **Ansoategui, I.** , Etxebarria, S., Martinez de Aguirre, M., Calleja-Ochoa, A., González, H., Lopez de Lacalle, N.*	Teaching Dynamics of Mechanisms Using a Project-Based Learning Approach: Some Experiences at the University of Minho *Authors: **Flores, P** .*
17.45-18.00		Vehicle sideslip angle estimator combining model-based and neural network methods *Authors: Barbaro, M., Tambasco, F., **Stendardo, A.**, Ponticelli, L., Ruffini, M.*	Influence of the supply line on the dynamic behavior of pneumatic actuators *Authors: Righettini, P., **Strada, R.** , Cortinovis, F., Santinelli, J., Tabaldi, F.*	Teaching Activities in the Mechatronics Courses at the La Spezia Campus of the University of Genoa *Authors: **Bruzzone, L.** , Verotti, M., Belotti, V., berardengo, M., Crenna, F.*
19.20-21.30	*Welcome Light Dinner at Contrastanga's Tavern-Via Giuseppe Piermarini 42*			

Thursday 10th

CENTRO STUDI Via Oberdan 123

	Room1 - Mechanism and Machines Design I *Chairpersons: Verotti M., Lanni C.*	**Room 2 - Robotics 2** *Chairpersons: Tamellin I., Idà E.*	**Room 3 - Robotics and Mobile Robotics** *Chairpersons: Carbone G., Cosenza C.*	**Room AULA SENSI- Tribology for Life and Sustainability: From Biotribology to Green Engineering (Special Session)** *Chairpersons: Logozzo S., Mattei L.*
09.00-09.15	A 1-DoF Mechanism Using a Cam and a Compliant Beam for Gravity Compensation in Robotic Arms *Authors: **Mottola, G.** , Garesci, F., Martini, A.*	Quantitative Influence of Robot Configuration on Transparency of Admittance-controlled Industrial Robots based on Frequency Response Functions *Authors: **Hoffmann, A** ., Abadzic, J., Kecskeméthy, A.*	Motion capture from human to robotic hand: preliminary development of a powered finger exoskeleton *Authors: **Antonelli, M.**, Beomonte Zobel, P., Stampone, N., Takagi, M.*	Regularization of the Coulomb Friction Force Model Using Sigmoid Functions *Authors: **Flores, P.***
09.15-09.30	Collaborative robotic polishing of luxury leather shoes: system design and experimental validation *Authors: **Pantanetti, S** ., Emiliani, F., Costa, D., Palmieri, G.*	Neural-Network-Based Pose Estimation of Underactuated Cable-Driven Parallel Robots *Authors: **Dal'Olio, M.**, Ida', E., Carricato, M.*	Evaluating the Handshake: A Study on Human-Human Interaction for the Identification of Social Cues *Authors: Dragusanu, M., Vigni, F., Saviano, G., Prattichizzo, D., **Malvezzi, M.***	The role of viscoelasticity in polymer bearings *Authors : **Santeramo, M.**, Putignano, C., Carbone, G.*
09.30-09.45	Linkage Design for Adjustable Constant Force Mechanism *Authors: **Wahl-Warnken**, N., Wetzlich, D., Zentner, L.*	An optimal control approach for obstacle-avoidance motion planning of differentially flat underactuated planar robots *Authors: **Lovato, S.**, Tonan, M., Bottin, M., Massaro, M., Doria, A., Rosati, G.*	Odometric Trajectory Estimation of a Differential-Drive Robot Using a FFT-Based Virtual Speed Sensor *Authors: Spirto, M., Malfi, P., **Cosenza, C.**, Savino, S., Niola, V.*	Improving Wear Quantification in Retrieved Acetabular Liners Using Independent 3D Scanning and Optical Pro-filometry *Authors: Logozzo, S., **Mattei, L** ., Valigi, M.C.*
09.45-10.00	Spring-Assisted Noncircular Cable-Pulley Mechanism for Balancing the Wheelchair Backrest and Footrest *Authors: Popescu, I., **Lovasz, E.** , Ceccarelli, M., Filimon, A., Pop, C., Oarcea, A.*	Inverse Dynamics and Static Balancing of the Single-rail Tripteron Robot *Authors: Boscariol, P., **Tamellin, I.***	Design and Construction of a Multimodal Robot with a Combined Air-Ground Locomotion System *Authors: **Rybak, L.**, Cherkasov, V., Victoria, P., Anastasiya, V.*	Influence of assembly on the performance of a tilting pad journal bearing and comparison with predictions *Authors: Betti, A., **Ciulli, E.** , Forte, P., Nuti, M.*
10.00-10.15	Curve-Based Optimization to synthesize Planar Compliant Structures with B-spline based Curvatures *Authors: **Zirkel, M.** , Luo, Y., Mukherjee, A., Fidlin, A., Zentner, L.*	Control of collaborative robots via voice interface and on device deep learning *Authors: **Emiliani, F.** , Costa, D., Carbonari, L., Palmieri, G., Callegari, M.*	Multibody simulation of a six-wheeled mobile manipulator: rocker-bogie vs. rigid rocker configurations *Authors:Pagano, S., **Malfi, P.**, Rocca, E., Savino, S.*	Mechanical characterization of materials for non-conventional air lubricated lip seals *Authors: **Goti, E** ., Mazza, L., Nohava, J., Trivella, A.*
10.15-10.30	Synthesis of cam-driven four-bar linkages for three-pose and prescribed motion program *Authors: Figliolini, G., **Lanni, C.***	Robotic sewing 3D Authors:**Busek, M.** Antoš, J., Dostrašil, P.	Design Evolution of a Cable-Driven Elbow Exoskeleton with Distributed Architecture *Authors: Zhetenbayev, N., **Bizhanov, D.**, Maksut, A. , Sultan, A.*	Dynamics of an Artificial Finger Compression: a preliminary study. *Authors: **Chinello, F** ., Olsen, M.*
10.30-10.45	Accuracy evaluation of flexure hinges *Authors: Serafino, S., Bruzzone, L., **Verotti, M.***	Optimizing the uncertain inverse dynamics bounds of the Franka Emika Panda robot *Authors: **Fabris, G.**, Scalera, L., Giusti, A., Gasparetto, A.*	AI-Enabled Modernisation of an Industrial Mobile Robot Built over the Legacy Stack *Authors: **Vukolov, A.**, Pugliese, R., De Simone, M., Kouroussias, G.*	Corrosive behavior of different materials in the framework of dual mobility hip implants *Authors: **De Stefano, M.** , Mattei, L., Ruggiero, A.*
10.45-11.00	A Modular Support Structure and Pose Reconstruction Method for Particle Identification Detectors *Authors: **Paterna, M.** , De Benedictis, C., Spatafora, A., Carbone, D.*	Vision-Based Robotic Disassembly Combined with Real-Time MFA Data Acquisition *Authors: **Zocco, F.**, Pozzi, M., Malvezzi, M.*	Extended Kalman Filter-based estimation of wheel-ground forces in Skid-Steering Mobile Robots *Authors: Strano, S., Terzo, M., **Tordela, C.***	On the design of double acting externally pressurized gas bearings *Authors: **Lentini, L.**, Colombo, F., Goti, E., Raviglione, R.*
11.00-11.30	*Coffee Break (Room Aula Picuti)*			
	Room 1 - Vibrations *Chairpersons: Cosenza C., Spirto M.*	**Room 2 - Robotics for Unstructured and Challenging Environments (Special Session)** *Chairpersons: Botta A. Sinico T.*	**Room 3 - Advances in Vehicle Dynamics and Control** *Chairpersons: Carello M., Tordela C.*	**Room AULA SENSI-Diagnostics and Experimental Characterization of Machines** *Chairpersons: Castellani F., Cocconcelli M.*
11.30-11.45	A Super Twisting Observer for pantograph-catenary contact force estimation *Authors: Strano, S., Terzo, M., **Tordela, C.***	A biomimetic manipulator for robotic applications in underwater environments *Authors:Valigi, M.C., **Marini, A.** , Logozzo, S.*	Benchmarking analysis of different NN architectures for vehicle sideslip angle estimation *Authors: Mandragora, G., Guidone, A., Romano, M., Aprea, M. **Stefanelli, A.***	Cavitation Detection in Industrial Boiler using Symmetrized Dot Pattern and Convolutional Neural Network *Authors: **Spirto, M.** , Melluso, F., Cosenza, C., Niola, V.*
11.45-12.00	Comparison of three PSD-guided approaches for the test tailoring *Authors: **Grosso, P.**, D'Elia, G., Rubini, R., Cocconcelli, M.*	Compact High-Range Yaw Joint Design for Articulated Robots in Confined and Unstructured Environments *Authors: **Toccaceli, L** ., Botta, A., Tagliavini, L., Colucci, G., Baglieri, L., Duretto, S., Amodio, F., Visconte, C., Quaglia, G.*	Preliminary Experimental Analysis of Bicycle Riding Comfort on Multiple Urban Road Surfaces *Authors: Pagano, G., Creazzo, F., Sousa Torres, G., **Aprea, M.***	Fatigue Assessment of an Ultrasonic Plate Sonotrode for the Application in Needle-Punching of Nonwovens *Authors: **Bolk, J.** , Corves, B.*
12.00-12.15	Versatile calculation tool for the natural frequencies of compliant mechanisms: Design and Usability Evaluation *Authors: **Platl, V.** , Zentner, L.*	Automated Generation of Terramechanics-Aware Simulation Environments *Authors: **Cottiga, S** ., Bourr, K., Gallina, P., Seriani, S.*	A preliminary comparative evaluation of bicycle tire damping estimation methods *Authors: **Aprea, M.** , Russo, V., Stefanelli, A., Stendardo, A.*	Unsupervised Ball Bearings Fault Diagnosis using Statistical Features and One-Class Support Vector Machine *Authors:Spirto, M. , **Melluso, F.**, Cosenza, C., Savino, S., Niola, V.*
12.15-12.30	Analytical modeling of the transition between motion modes and the oscillatory-damped mode of the mixing and whipping device *Authors: **Iskakov, Z.**, Bissembayev, K., Jomartov, A., Sagadinova, A.*	Mobile Manipulator for Weed Control on Uneven Terrain: preliminary tests for obstacle management *Authors: Pagano, S., Cosenza, C., **Malfi, P.** , Savino, S., De Falco, D.*	NVH analysis of a urea-scr and sender unit system for truck vehicle *Authors: **Carello, M.**, Berti Polato, D., Bolzoni, M.*	Reliability-Oriented Multi-Level Shaft Crack Severity Classification Using Experimental Vibration Data with Group-Stratified Validation and POD Assessment *Authors: **Melluso, F.** , Castejon, C., Gomez Garcia, M., Spirto, M., Niola, V.*
12.30-12.45	Experimental Validation of an Ultrasonic Plate Sonotrode for the Application in Needle-Punching of Nonwoven *Authors: Bolk, J., **Minor, L.**, Corves, B.*	Control and Integration of a Cable-Driven SpiRob Soft Gripper on a Collaborative Robot *Authors: **Businaro, D.**, Sinico, T., Boschetti, G.*	Role of Surface Free Energy in Dry and Wet Tyre-Road Friction on Smooth Surfaces *Authors: **Caiazza, A.**, Romano, M., Mandragora, G., Lenzi, E., Suero, R.*	Early Detection of Wind Turbine Generator Faults Using a Semi-Supervised Transformer and SCADA Data *Authors: **Puruncajas, B.** , Belcastro, F., Astolfi, D., Castellani, F.*
12.45-13.00	Analysis of Acquisition Frequency Influence on Indentation Dynamics in Non-Destructive Testing *Authors: **Lanzarotti, M.**, Genovese, A., Farroni, F., Napolitano Dell'Annunziata, G., Sakhnevych, A., Timpone, F.*	Design Simulation and Testing of an Integrated Platform for Monitoring, Geological and Environmental Survey of Near Shore Infrastructures *Authors: **Pugi, L** ., Mariottoni, E., Croci, M., Gatti, A., Cafferata, E., Giusti, L., Baldanzini, N., Falorni, M., Cerretelli, N.*	Experimental Investigation of the Influence of Surface Roughness on Tire–Road Friction *Authors: De Giuli, C., Tambasco, F., Sousa Torres, G., Suero, R., **Barbaro, M.***	Design method to reduce whine noise in gear transmission based on meshing phase *Authors: **Cristofori, G.**, Battarra, M., Mucchi, E., Dalpiaz, G.*
13.00-14.30	*Group Photo and Lunch Buffet (Room Aula Picuti)*			
14.10-14.30	*IFToMM Italy Meeting (Room 2)*			
14.30	*Depart for a Guided Tour of Assisi*			
18.00	*Return to Foligno*			
20.20	*Transfer from the city center to Delphina Palace Hotel*			
20.30	*Gala Dinner at the Delphina Palace Hotel*			
00.30	*Transfer from Delphina Palace Hotel to the city center*			

Friday 11th

CENTRO STUDI Via Oberdan 123

	Room 1- I4SDG: Engineering Solutions for Global Challenges *Chairpersons: Maffiodo D.,Tonan M.*	**Room 2 - Mechanism and Machine Design II** *Chairpersons: Minto R., Lovato S.*	**Room AULA SENSI-Robotics and Collaborative Robotics** *Chairpersons: Bottin M.,Brückmann, N., Scoccia C.,*
09.30-09.45	Toward Adaptive Grasping: A Flexible Joint with Embedded Stiffness Modulation Using Twisted String Actuation *Authors: Saeed, A., Dragusanu, M., Salvietti, G., **Malvezzi, M.***	Balancing Mechanism for Driving a Carousel Rotary Table *Authors: **Bilkovský, A** ., Busek, M.*	A 5-dimension Digital Twin framework for collision detection in open PLC-based collaborative robots *Authors:Boscariol, P., **Sinico, T.** , Boschetti, G.*
09.45-10.00	Three-Dimensional Hand Trajectory Estimation from MIMUs during a Hand-Tapping Task *Authors **: Digo, E.**, De Vito, C., Gastaldi, L.*	Model Predictive Control for Marine Litter Collection Device *Authors: **Lazzerini, G.** , Bucci, A., Liverani, G., Della Valle, A., Gelli, J., Topini, A., Ridolfi, A.*	Dynamic Assessment and Mitigation of the Impact of Collaborative Applications *Authors: Rosati, G., Callegari, M., Giberti, H., Bottin, M., Carnevale, M., Cesaro, A., Costa, D., Doria, A. Fabiocchi, D., Giulietti, N., Lettera, G., Neri, F., **Scoccia, C.**, Zhou, D.*
10.00-10-15	Design parameters affecting the performance of galloping harvesters *Authors: **Tonan, M.** , Pasetto, A., Doria, A.*	Dynamic analysis of the IRT indexing rotary table *Authors: **Ondrášek, J.**, Bilkovský, A.*	Experimental evaluation of a human-mobile robot interaction algorithm using radar and lidar *Authors: **Neri, F.** , Palmieri, G., Sambath, P., Zangl, H.*
10.15-10.30	A hybrid electric-mechanical energy storage system to improve the health of the batteries in electric vehicles *Authors: Brancati, R., Petrillo, A., Pagano, S., **Redi, L** , Santini, S., Di Massa, G.*	How many mechanisms can be designed? *Authors: **Cocconcelli, M.**, Ceccarelli, M.*	Planar underactuated flexible robot: collision avoidance in pick and place operations *Authors: **Giraldi, D.**, Tonan, M., Bottin, M., Doria, A., Rosati, G.*
10.30-10.45	Statistical identification of the global resistive coefficient in automatic machines *Authors: **Battarra, M.**, Cristofori, G., Canini, G., Mucchi, E., Dalpiaz, G.*	A Genetic-Algorithm based Approach to Maximize Robot's Capabilities of Generating Forces *Authors: **Manzardo, M** ., Galli, D., Gualtieri, L., Vidoni, R.*	Towards Robotic Assembly of Perfusion Tubing Systems: Task Clustering and an Order-Driven Skill-Based Cell Architecture *Authors: **Terlizzi, S** . , Palmieri, G., Scalise, L.*
10.45-11.00	Environmental Monitoring System for Rescue Operations in Artesian Wells *Authors: **Maffiodo, D.**, Raparelli, T., Astuti, S.*	Coordinated Multi-Arm Robotic System for Reducing Inter-Layer Drift in 3D Textile Sewing *Authors: **Antoš, J.** , Soukal, M.*	Concept of Macro-Micro Manipulator for Precise Large-Scale Surface Processing Using the Example of *Authors: **Brückmann, N** ., Knobloch, T., Mirz, C., Schicks, F., Hüsing, M., Corves, B., Tanaka, T., Miura, S., Akatani, K., Kato, K., Takeda, Y.*
11.00-11.15	On-Board Observer and Digital Twin based System for Safety in Human-Robot Collaboration *Authors: **Tiboni, M.** , Perani, C.*	A lightweight design formulation for combined design and command optimization of planar manipulators with flexible links *Authors: **Gufler, V.** , Wehrle, E., Giusti, A.*	Residual Convolutional LSTM Networks to Enhance sEMG-Based Gesture Recognition *Authors : **Calamai,R.**, Vangi,M.,Bucci,A.,Topini,A., Secciani,N.*
11.15-11.30		Experimental validation of piston kinematics in an unconventional slider-crank mechanism using vision systems *Authors: Brancati, R., **Cosenza, C.** , Gimelli, A., Spirto, M., Savino, S., Tufano, F., Della Corte, G.*	Design and validation of a tendon-driven continuum robot with a shape-memory alloy backbone *Authors: **Quattrucci, L.** , Ulti di Giovenale, A., Russo, M., Tata, M., Costanza, G.*
11.30-12.00	*Closing ceremony*		
12.00-13.00	Brunch (Room Aula Picuti)		