

PROGRAM IFIT 2018

In double tracks

Day 1 (28 November 2018):

- 14:00 - 15:00 Registration
- 15:00 - 18:00 Visit to Montecassino Abbey (**bus departure at 14.30 from Hotel Alba**)
- 18:00 - 19:00 Registration
- 19:30 – Welcome dinner (Titina Restaurant)

Day 2 (29 November 2018):

- 8:30 – 9:00 Registration
- 9:00 – 9:20 Opening act (Aula Magna)
- 9:20 – 11:20 Technical Session **Vehicle dynamics** (Sala Consiglio)
- Technical Session **Grasping** (Aula Magna)
- 11:20 – 11:40 Coffee break
- 11:40 – 13:20 Technical Session **Transportation Machinery** (Sala Consiglio)
- Technical Session **Medical Devices** (Aula Magna)
- 13:20 – 14:20 Welcome buffet lunch (da Mario Restaurant)
- 14:20 – 17:00 Technical Session **Bearings & Trasmissions** (Sala Consiglio)
- Technical Session **Service Systems** (Aula Magna)
- 17:00 – 17:20 Coffee break
- 17.20 – 18.00 Plenary speech by Prof. Yukio Takeda (Aula Magna)
- On activities and possibilities of collaboration with IFToMM Japan***
- 18:00 – 19:00 Meeting of IFToMM Italy (Aula Magna)
- 19:00 – Gala dinner and Awards Ceremony (Agristor Restaurant)

Day 3 (30 November 2018):

- 8:45 – 10:25 Technical Session **History of MMS & Vibrations** (Sala Consiglio)
- Technical Session **Design of Robots I** (Aula Magna)
- 10:25 – 10:45 Coffee break
- 10:45 – 12:45 Technical Session **Vibrations** (Sala Consiglio)
- Technical Session **Design of Robots II** (Aula Magna)
- 12:45 – 13:00 Closing act
- 13:00 – 13:45 Lunch (da Mario Restaurant)
- 13:45 – 16:30 Visit to SKF Industrie – Cassino Plant

Rooms **Sala Consiglio** and **Aula Magna** are both located at Via G. Di Biasio, 43

Sala Consiglio is at Second floor at right side of the stairs

Aula Magna is at First floor at left side of the stairs

Conference Venue is located in Via G. Di Biasio, 43. It is about 1 Km from the train station (Stazione)

Bus meeting point is in front of Hotel Alba/Da Mario Restaurant in Via G. Di Biasio, 53

Titina Restaurant is in via Casilina Nord, 53 - 03043 Cassino

Agristor Le due torri Restaurant is in SS85 Venafrana km 4.700 Presenzano

SKF Industrie – Cassino Plant is in Via Casilina, KM 140, Cassino

Day 2 (29 November 2018):		Room Sala Consiglio
- 9.20 – 11.20 technical session: [6 papers x 20 min.] Vehicle Dynamics		
Session Chair: Domenico Mundo		
No.	Title	Authors
019	Steering System of a Low-Consumption Vehicle: From the Dynamics Analysis to the Design of the Wheel Assembly	Ferraris, Messina, Multari, Sisca, Airale, Carello
003	Development, Validation and RT Performance Assessment of a Platform for Driver-In-The-Loop Simulation of Vehicle Dynamics	Mundo, Gencarelli, Dramisino, Garre
042	Vehicle Sideslip Angle Estimation Using Kalman Filters: Modelling and Validation	Pieralice, Lenzo, Bucchi, Gabiccini
017	Sailmast Setup for a Wind Wheeled Robot	Reina, Foglia
027	An Application of TRIP-ID: MF Identification Tool for an Automobile Tire Interaction Curves Dataset	Farroni, Russo, Sakhnevych, Timpone
056	Performance Indices for Motorsport Drivers Analysis	Farroni, Rocca, Sakhnevych, Timpone

Day 2 (29 November 2018):		Room Aula Magna
- 9.20 – 11.20 technical session: [6 papers x 20 min.] Grasping		
Session Chair: Andrea Manuello Bertetto		
No.	Title	Authors
010	Design and Testing of a Finger Exoskeleton Prototype	Gerding, Cafolla, Corves, Rink, Russo, Ceccarelli
030	Comparison Among Different Modular SMA Actuated Flexible Fingers	Maffiodo, Raparelli
045	Kinematics-Based Strategy for the Design of a Pediatric Hand Exoskeleton Prototype	Bianchi, Secciani, Ridolfi, Vannetti, Pasquini
021	Assistive Hand Exoskeletons: The Prototypes Evolution at the University of Florence	Secciani, Bianchi, Meschini, Ridolfi, Volpe, Governi, Allotta
060	Remote Control of a Robotic Hand Using a Leap Sensor	Dawes, Penders, Carbone
012	Modelling Friction Phenomena in an Underactuated Tendon Driven Finger by Means of Vision System Device Data	Cosenza, Niola, Savino

Day 2 (29 November 2018): - 11.40-13.20 technical session: [5 papers x 20 min.] Transportation Machinery		Room Sala Consiglio
Session Chair: Vincenzo Niola		
No.	Title	Authors
004	Real Time Models of Automotive Mechatronics Systems: verifications on “Toy Models”	Berzi, Favilli, Locorotondo, Pierini, Pugi
006	Design of a Hybrid Storage for Road Public Transportation Systems	Alessandrini, Barbieri, Berzi, Cignini, Genovese, Locorotondo, Ortenzi, Pierini, Pugi
052	Cost-Effective Wireless Sensing System for an Intelligent Pneumatic Tire	Breglio, Irace, Pugliese, Riccio, Russo, Strano, Terzo
040	Design, Analysis and Investigation of an Independent Suspension for Passenger Cars	Belluomo, Lenzo, Bucchi, Velardocchia
046	Composite and Damping Materials Characterization with an Application to a Car Door	Fasana, Ferraris, Berti Polato, Airale, Carello

Day 2 (29 November 2018): - 11.40-13.20 technical session: [5 papers x 20 min.] Medical Devices		Room Aula Magna
Session Chair: Riccardo Russo		
No.	Title	Authors
025	Experimental Dynamic Proofs of Rib Implants	Ramirez, Ceccarelli, Russo, Torres San Miguel, Urriolagoitia-Calderon
036	Handwheelchair.q: Innovative Manual Wheelchair for Sport	Quaglia, Bonisoli, Cavallone
044	Energy Analysis of the Human Gait: A Comparison Between Natural Gait and with Jumping Stilts	Manuello Bertetto, Garau, Ruggiu
062	RAP: A New Wearable/Portable Device for Extracorporeal Blood Ultrafiltration	Boscariol, Boschetti, Dalla Via, De Rossi, Neri, Palomba, Richiedei, Ronco, Trevisani
055	A Hybrid Actuation System for a Portable Structural Health Monitoring Device	Santamato, Marcheschi, Solazzi, Frisoli

Day 2 (29 November 2018): - 14.20 – 17:00 technical session: [8 papers x 20 min.] Bearings & Trasmissions		Room Sala Consiglio
Session Chair: Enrico Ciulli		
No.	Title	Authors
014	Hybrid Electric Vehicle Powertrain Design: Construction of Topologies and Initial Design Schemes	Zhou, Qin, Rotella, Cammalleri
016	A Simple Method for the Design of Hybrid Electric Power-Split CVTs: a Case Study	Rotella, Cammalleri, Qin, Zhou
034	Identification of a Lumped Parameters Numerical Model of Gas Bearings: Analysis of 1D Parallel Plates	Colombo, Raparelli, Trivella, Viktorov
037	Nonlinear Effects in the Dynamic Characterization of Tilting Pad Journal Bearings	Ciulli, Forte
053	Comparison of Metrics for Peaks Enhancement in Variable Speed Conditions	Cocconcelli, Rubini, Pancaldi, Capdessus
059	A Nonlinear Lumped Parameter Model of an Externally Pressurized Rectangular Grooved Air Pad Bearing	Colombo, Lentini, Raparelli, Trivella, Viktorov
047	Experimental Investigation on Magneto-Rheological Elastomers	Brancati, Di Massa, Di Vaio, Pagano, Santini
002	Modeling Dynamics of Planetary Gears of Crank Press on SimulationX	Jomartov, Tuleshov

Day 2 (29 November 2018): - 14.20 – 17:00 technical session: [8 papers x 20 min.] Service Systems		Room Aula Magna
Session Chair: Giulio Rosati		
No.	Title	Authors
015	Thermographic Analysis of Residual Stress in Aluminum Plates Through Wavelet Transform	Cosenza, Niola, Savino
005	The Cyber-Physical Systems Within the Industry 4.0 Framework	Sbaglia, Giberti, Silvesti
023	Effect of Design Parameters and Operating Conditions in Concrete Twin Shaft Mixers	Valigi, Logozzo, Galletti
033	A Simplified Approach to the Calibration of Extrusion Based AM Systems	Sbaglia, Giberti, Castelli
049	Design Criteria for Wearable Robotic Extra-Fingers with Underactuated Modular Structure	Malvezzi, Valigi, Salvietti, Iqbal, Hussain, Prattichizzo
022	A Customized One-Degree-of-Freedom Linkage Based Leg Exoskeleton for Continuous Passive Motion Rehabilitation	Shen, Tan, Allison, Cui
035	Extraction of the Beam Elastic Shape from Uncertain FBG Strain Measurement Points	Pinto, Roveri, Pepe, Nicoletti, Balconi, Carcaterra
028	Grasps of Robot Manipulator when Overloading Solid High-Radioactive Elements and Their Calculation	Temirbekov, Kaiym, Ceccarelli, Bostanov, S.T. Kaimov, A.T. Kaimov

Day 3 (30 November 2018):		Room Sala Consiglio
- 8.45 - 10:25 technical session: [5 papers x 20 min.] History of MMS& Kinematics		
Session Chair: Alessandro Gasparetto		
No.	Title	Authors
	Presentation of PhD work by Japanese PhD candidate on “Expansion of Kinematic Constraint with Elastically Constrained Higher Pairs”	Kimura
001	The Arsenal of Venice: the First “Industrial” Factory in History	Ceccarelli, Gasparetto
048	Energy Saving in Mechatronic Systems Through Optimal Point-to-Point Trajectory Generation via Standard Primitives	Carabin, Vidoni, Wehrle
024	Power Transmission and Mechanisms of an Old Water Mill	Franco, Ferraresi, Revelli
011	Oscillations Specific for the Homogeneous Rod Like Elastic Structure on the Kinematic Absorber Basis with Rolling Bearers Having Straightened Surfaces	Bissembayev, Omyrzhanova

Day 3 (30 November 2018):		Room Aula Magna
- 8.45 - 10:25 technical session: [5 papers x 20 min.] Design of robots I		
Session Chair: Giuseppe Quaglia		
No.	Title	Authors
007	A new Family of Magnetic Adhesion Based Wall-Climbing Robots	Seriani, Scalera, Gasparetto, Gallina
031	Computation Time Efficient Stiffness Analysis of the Modified R-CUBE Mechanism	Görgülü, Dede
032	Multi-Body Analysis of a Bio-Inspired Underwater Robot	Costa, Palmieri, Scaradozzi, Callegari
038	A Preliminary 6 Dofs Robot Based Setup for Fused Deposition Modeling	Castelli, Giberti
ACRI	On the Development of External Robot Controllers for Vibrations Suppression	Aspragkathos S., Sakellariou, Koustoumpardis, AspragathosN.

Day 3 (30 November 2018):		Room Sala Consiglio
- 10.45 - 12:45 technical session: [6 papers x 20 min.] Vibrations		
Session Chair: Marco Ceccarelli		
No.	Title	Authors
	Presentation of PhD work by Japanese PhD candidate on “High-precision motion control of parallel robot based on dynamic model of joint clearance”	Ohno
026	Fundamental Analysis on the Intentional Use of Nonlinear Stiffness in Some Dynamical Systems	Gatti, Brennan, Tang
057	Vibratory Feeding of Cylindrical Parts: A Dynamic Model	Comand, Boschetti, Rosati
018	Statistical Energy Analysis SEA: a Correlation Between Virtual and Experimental Results	Ferraris, Messina, Sisca, Santoro, Airale, Carello
050	A Variational Approach for the Reduction of Transient Load Sway in Overhead Cranes	Boscariol, Richiedei
043	An Experimental Characterization of a Planetary Gearbox	Gonzales Cruz, Ceccarelli

Day 3 (30 November 2018):		Room Aula Magna
- 10.45 - 12:45 technical session: [6 papers x 20 min.] Design of robots II		
Session Chair: Giovanni Boschetti		
No.	Title	Authors
	Presentation of PhD work by Japanese PhD candidate on “Development of extremely extendable mechanism inspired by Origami structure”	Matsuo
041	Digital Twin Development of HexaFloat, a 6DoF PKM for HIL Tests	Raineri, La Mura, Giberti
051	Online Estimation of Impedance Parameters for a Variable Impedance Controlled Robotic Manipulator	Bhole, Ficuciello, Mashayekhi, Strano, Terzo, Villani, Siciliano
061	On the Dynamic Analysis of a Novel Snake Robot: Preliminary Results	Quaglia, Cavallone, Lenzo
039	Experiences on a Hybrid Locomotion Approach to Overcome Obstacles with Cassino Hexapod III	Orozco-Magdaleno, Carbone, Castillo
058	A Recovery Approach for Spatial Cable Robots After Cable Failure	Boschetti, Passarini, Trevisani

DIRECTIONS

