

PROGRAMME ISIEA

Wednesday 19.06.2024

NOI Tech Park – Via Volta 13/A Bolzano

13:30 14:00	Registration Foyer		
14:00 14:30	Welcome Session ROOM 1		
14:30 15:30	Keynote speech ROOM 1 <i>"Current possibilities and future challenges to support the design process by simulation using the example of rolling bearing applications"</i> <u>Graf-Goller Oliver</u> Chair: Concli Franco		
15:30 16:00	Coffee Break Foyer		
16:00 18:00	Parallel Sessions ...		
	SEMINAR ROOM 1	SEMINAR ROOM 2	AUDITORIUM
	Life and Efficiency of Bearings Chair: Koch Oliver	Planning and Control of Robotic and Mechatronic Systems Chair: Richiedei Dario, Van Oosterwyck Nick	Artificial Intelligence in Manufacturing and Mechanical Engineering Chair: Borgianni Yuri
	101 - Predicting the behavior of spherical roller bearings with a detailed multi-body simulation model <u>Müller Jonathan Irenäus</u> & Koch Oliver	201 - Control, estimation and co-design of underactuated mechanical systems: own-review 2013-2023 <u>Bastos Guaraci</u>	301 - Artificial intelligence - Insights into the mechanics of biomaterials: Predicting the compressive load of composite sandwich structures <u>Sheini Dashtgoli Danial</u> , <u>Taghizadeh Seyedahmad</u> , Macconi Lorenzo, Concli Franco
	102 - Flows in oil-bath lubricated tapered roller bearings: CFD simulations validated via PIV <u>Maccioni Lorenzo</u> & Concli Franco	202 - A collaborative robotics application for the assembly of car rear lamps <u>Scalera Lorenzo</u> , Lozer Federico, Geerinck Julie, Breda Andreas, Totis Francesco, Polo Fabio, Giusti Andrea, Gasparetto Alessandro	302 - Estimating Colebrook-White friction factor using tree-based machine learning models Niazkar Majid, <u>Menapace Andrea</u> , Righetti Maurizio
	103 - Spherical bearing with tapered hourglass rolling elements for planetary reduction stage applications <u>Podda Daniele</u> , Pisani Paolo, Cao Lijun, Sartori Sergio, Scaltritti Diego, Clauvelin Jean-Philippe	203 - An Excel motion profile optimization (MoPO) tool for industrial positioning applications <u>Van Oosterwyck Nick</u> , Maes Brecht, De Laet Robbe, Derammelaere Stijn	303 - Integrated approach for continuous improvement of robotic garments picking <u>Pini Fabio</u> , Kähler Olaf, Uray Martina, Llagostera Eugeni, Biagiotti Luigi, Leali Francesco

		... Parallel Sessions		
		SEMINAR ROOM 1	SEMINAR ROOM 2	AUDITORIUM
16:00 18:00		104 - Experimental comparison of hydrostatic bearing pad geometry optimization approaches under static conditions <u>Michalec Michal</u> , Foltýn Jan, Svoboda Petr, Křupka Ivan, Hartl Martin	204 - Inverse dynamics for feedforward control of an underactuated 6-DOF gantry crane Bettega Jason, Fabris Francesco, <u>Richiedei Dario</u> , Tamellin Iacopo, Alberto Trevisani	304 - Automated visual inspection via differentiable physically-based rendering under unknown illumination <u>Caruso Emanuele</u> , Casarin Sofia, Pfund Thomas, Schupp Florian, Lanz Oswald
		105 - The influence of measurement uncertainties and input parameters on hydrostatic bearing performance: analytical, experimental, and numerical comparison Foltýn Jan, Maccioni Lorenzo, <u>Michalec Michal</u> , Concli Franco, Svoboda Petr	205 - Chattering-free sliding mode control for position and attitude tracking of a quadrotor <u>Gomiero Sara</u> & von Ellenrieder Karl	305 - Egocentric video-based human action recognition in industrial environments <u>Bianchi Edoardo</u> & Lanz Oswald
		106 - Decoupled Sliding-Mode Control for active magnetic Bearings using Particle Swarm Parameter Optimisation <u>Vennemann Jonah</u> , König Niklas, Nienhaus Matthias	206 - Adaptive vibration absorption using Internal Model Control approach Duarte André J J, Araújo José M, Santos Tito L, <u>Richiedei Dario</u> , Tamellin Iacopo	
18:00 19:30	Aperitif Foyer			

PROGRAMME ISIEA

Thursday, 20.06.2024

NOI Tech Park – Via Volta 13/A Bolzano

				Parallel Sessions		
SEMINAR ROOM 1		SEMINAR ROOM 2		AUDITORIUM		
Cycloidal Speed Reducers Chair: Blagojevic Mirko		Mobile Field Robotics: Recent Achievements in the Aerial, Ground and Marine Domains Chair: von Ellenrieder Karl		Advancements in Aerospace Technologies Chair: Chernoray Valery G.		
107 - Torque-to-weight: driving the next electrification wave <u>Lopez Garcia Pablo</u> , Khorasani Amin, Verstraten Tom		207 - High Order CBFs for the Safety-critical Control of Coaxial Octorotor UAVs <u>Mahmoudabadi Parvin</u> , von Ellenrieder Karl, Moroder Matthias, Moroder Moritz		307 - Research Perspectives for the Near- and Far-future Development of Civil Aviation <u>Chernoray, Valery</u>		
108 - Finite element investigation of torque ripple in roller-cycloidal contact: examining gear ratio, mesh density, and transmitted power dependencies <u>Fraccaroli Lorenzo</u> , Maccioni Lorenzo, Concli Franco, Blagojevic Mirko, Rotini Federico		208 - Design and development of an autonomous surface vehicle for supporting underwater navigation Bocalini Lorenzo, <u>Cavaliere Chiara</u> , Costanzi Riccardo, Di Lorenzo Giovanni, Guerci Matteo, Lisi Michele, Pollini Lorenzo, Ruscio Francesco, Ryals Andrea Dan, Tani Simone		308 - The role of advanced experimental methods in aerodynamic evaluation of state-of-the-art turbofan engine components <u>Vikhorev Valentin Vadimovich</u>		
109 - Loads in the planetary-pinion gear with modification of the tooth profile and eccentricity of the satellites Tchufistov E.A., Tchufistov O.E., <u>Blagojevic Mirko</u>		209 - Local path-planning optimisation for an industrial Autonomous Mobile Robot via dynamic obstacle detection <u>Cecchi Lorenzo</u> , Bucci Alessandro, Topini Alberto, Ridolfi Alessandro, Bonacchi Luigi Bono		309 - The use of Infrared thermography in Advanced Experimental Investigations of State-of-the-art Turbofan Engine Components <u>Jonsson Isak</u>		
110 - The influence of thermal stresses on the load distribution in cycloidal reducers <u>Blagojevic Mirko</u> , Vasic Milan, Dizdar Samir, Tuka Smajo, Josimovic Milos		210 - Towards robotic pose graph estimation with tree landmarks in perennial orchards <u>Chang Michael</u> & Camurri Marco		310 - Helicopter drive system featuring additive-manufactured components <u>Alari Lorenzo</u> , Sartori Sergio, Montagna Federico, Pisani Paolo, Borlin Nicola, Scaltritti, Diego		
		211 - A control barrier function based approach for close inspection with USVs <u>von Ellenrieder Karl</u> & Camurri Marco		311 - On and offboard technologies for autonomous UAMs in urban emergency response roles <u>Rodriguez Acero Patxi Daniel</u>		

8:30
|
10:10

	Poster Session Foyer		
10:10 10:30	<p>P01 - A novel concept of nested cycloidal drive <u>Maccioni Lorenzo</u> & Concli Franco</p> <p>P02 - Influence of geometric deviations in rollers and cycloidal disk on power transmission performances <u>Rotini Federico</u></p> <p>P03 - Model based prediction of optimal ropeways for material transport <u>Wenin Markus Josef</u>, Patreider Moritz, Brunner Johannes</p> <p>P04 - Study and optimization of main bearing lubrication system of a direct-drive leitwind wind turbine <u>Ishaq Khan Muhammad</u>, Maccioni Lorenzo, Concli Franco</p>		
10:30 10:50	Coffee Break Foyer		
	Parallel Sessions		
	SEMINAR ROOM 1 Powertrains Chair: Gorla Carlo	SEMINAR ROOM 2 Applied Mechanics and Robotics Chair: Scalera Lorenzo	AUDITORIUM Innovative Engineering Education Part A Chair: Woschank Manuel
	<p>112 - Multibody Simulation of Gearbox Dynamics using 3D Contact Modeling and measured Tooth Geometries</p> <p><u>Grünberger Jürgen</u>, Steiner Wolfgang, Witteveen Wolfgang</p>	<p>212 - Development of a mechanical device to harvest energy from marine waves</p> <p><u>Mura Andrea</u></p>	<p>312 - Technology in engineering education: the sustainable enterprise business game</p> <p><u>Fontanella Sabrina</u>, Fraccascia Luca, Nonino Fabio, Baldissin Nicola</p>
10:50 12:10	<p>113 - Modifications of a Back-to-back Geared Test Rig for a State-of-the-art Analysis of Its Oil Flows</p> <p><u>Bonaiti Luca</u>, Gorla Carlo</p>	<p>213 - Enhancing snowboard design for ollie performance through multibody system dynamics and genetic optimization</p> <p><u>Huber Xaver</u>, Zwölfer Andreas, Caillaud Benoit, Rixen Daniel J.</p>	<p>313 - The certification of an entrepreneurship competence during an interfaculty business challenge</p> <p><u>Morselli Daniele</u>, Luppi Elena, Ricci Aurora, Parricchi Monica</p>
	<p>114 - Advances in spline couplings testing</p> <p><u>Mura Andrea</u>, Curà Francesca</p>	<p>214 - Redundant Hybrid Robots for resilience in future smart factories</p> <p>Manzardo Matteo, <u>Yan Yicheng</u>, Rojas Rafael Angel, Shahidi Amir, Vidoni Renato, Hüsing Mathias, Corves Burkhard</p>	<p>314 - Criticism and proposal of a model for the design and rapid set-up of a training course based on 3D printing</p> <p><u>Scibilia Sergio</u> & Casalino Giuseppe</p>
	<p>115 - Performance Analysis of a Micro Gas Turbine Fed by Ammonia as Fuel with Steam Injection</p> <p><u>Fatehi Mohsen</u>, Campaldini Graziano, Renzi Massimiliano</p>	<p>215 - Methods for high performance phase change actuation</p> <p><u>Fonseca Diogo</u>, Neto Pedro</p>	<p>315 - A Unity3D-based interactive educational game of compressed air system maintenance</p> <p>Isik Birkan, <u>Emir Isik Gulbahar</u>, Zilka Miroslav</p>

12:10 13:50	Lunch Foyer		
13:50 14:40	<p style="text-align: center;">Keynote speech ROOM 1</p> <p style="text-align: center;"><i>"Past, Current and Future Research Topics in Robotics at IGMR, RWTH Aachen University"</i></p> <p style="text-align: center;"><u>Corves Burkhard</u></p> <p style="text-align: center;">Chair: Vidoni Renato</p>		
14:40 15:40	Parallel Sessions		
	<p style="text-align: center;">SEMINAR ROOM 1</p> <p style="text-align: center;">Multi-physics Modeling Approaches for the Simulation of New Generation Propulsion Systems</p> <p style="text-align: center;">Chair: Della Torre Augusto</p>	<p style="text-align: center;">SEMINAR ROOM 2</p> <p style="text-align: center;">Modelling and Simulations</p> <p style="text-align: center;">Chair: Vidoni Renato</p>	<p style="text-align: center;">AUDITORIUM</p> <p style="text-align: center;">Innovative Engineering Education Part B</p> <p style="text-align: center;">Chair: Molinaro Margherita</p>
	<p>116 - Development and Application of a CFD Framework for the Simulation of Fully Coupled Electromagnetic and Heat Transfer Process Inside Electric Motors</p> <p><u>Montenegro Gianluca</u>, Della Torre Augusto, Zamboni Rachele</p>	<p>216 - Overview of the analysis and testing of a covering system for a telescope</p> <p><u>Dinardo Francesco</u>, Tomasi Matteo, Bursi Alessandro, Vignotto Davide, Dalla Ricca Edoardo, Giacomazzo Matteo, Bortoluzzi Daniele</p>	<p>316 - The role of Nordic entrepreneurship education for technical education</p> <p><u>Schild Katharina</u> & Morselli Daniele</p>
	<p>117 - A detailed CFD model for the channel-scale analysis of PEM fuel cells: application and validation considering different distributor layouts</p> <p><u>Bulgarini Margherita</u>, Della Torre Augusto, Baricci Andrea, Grimaldi Amedeo, Montenegro Gianluca, Marocco Luca, Mereu Riccardo</p>	<p>217 - Shape sensing and damage identification with iFEM on a double bottom structure of a containership</p> <p><u>Bardiani Jacopo</u>, Manes Andrea, Giglio Marco, Sbarufatti Claudio</p>	<p>317 - Data Spaces for Leading Future Innovation Processes</p> <p><u>Pichler Rudolf</u> & Schellander Martin</p>
<p>118 - A multiphysics CFD framework for the simulation of automotive advanced after-treatment systems equipped with heating devices</p> <p><u>Della Torre Augusto</u>, Barillari Loris, Sartirana Andrea, Montenegro Gianluca</p>	<p>218 - Validation of a wheelset finite element model for static structural analysis and inverse force identification</p> <p><u>Bellacci Giovanni</u>, Pugi Luca, Baldanzini Niccolò</p>	<p>318 - Blended Intensive Programmes as effective and innovative solutions to train the engineers of the future</p> <p><u>Molinaro Margherita</u>, Orzes Guido, Borgianni Yuri</p>	
15:40 16:10	Coffee Break Foyer		

				Parallel Sessions		
		SEMINAR ROOM 1	SEMINAR ROOM 2	AUDITORIUM		
		Tribology and Materials Chair: De Pasquale Giorgio, Montenegro Gianluca	Formulations and Applications of Structural and Multibody Dynamics Chair: Gerstmayr Johannes, Gufler Veit	SME 5.0 – Intelligent, Sustainable and Human-Centred SMEs Part A Chair: Baalsrud Hauge Jannicke		
		119 - CFD insights into gear jet lubrication: exploring objectives, challenges, and methodologies through a literature review Maccioni Lorenzo, <u>Pagliari Lorenzo</u> , Concli Franco	219 - Improving the Accuracy of the Floating Frame of Reference Formulation for Rotordynamics Applications <u>Holzinger Stefan</u> , Zwölfer Andreas, Trainotti Francesco, Gerstmayr Johannes	319 - Industry 5.0 and SMEs future work competency fields: A literature review <u>Zare Leila</u> , Ben Ali Marwa, Rauch Erwin		
		120 - Simulation of the churning losses of ordinary gears: Lagrangian Smooth Particle Hydrodynamics approach <u>Della Torre Augusto</u> & Concli Franco	220 - An objective FE-formulation for Cosserat rods based on the spherical Bézier interpolation <u>Greco Leopoldo</u> , Cammarata Alessandro, Castello Domenico, Cuomo Massimo	320 - The influence of digital transition and industry 5.0 on the success of implementing LARGS paradigms: Exploring European SMEs Challenges <u>Baalsrud Hauge Jannicke</u> , Zemke Chavez Zuhara, Eshetu Birkie Seyoum, Chengo Kei Sam		
16:10 18:10		121 - Simulation of the lubrication of high-speed jet-lubricated gears: study of the impact of the oil droplet suspension on the power losses Concli Franco & <u>Della Torre Augusto</u>	221 - Use of lumped mass formulation in the design sensitivity analysis of flexible multibody dynamics <u>Gufler Veit</u> , Wehrle Erich, Vidoni Renato	321 - Enablers, barriers, and opportunities for the implementation of circular economy practices in small and medium-sized enterprises: An explorative systematic literature review <u>Olipp Nadine</u> , Woschank Manuel, Kopeinig Jacob		
		122 - SiToLub - Simulation Tools for the design of safe and sustainable Lubricants <u>Don Davide</u> , Notarfrancesco Sarah, Pisarova Lucia, Moncho Salvador, Hoffmann Jonas, Borrás Xavier	222 - Surrogate mechanical model for programmable structures <u>Pieber Michael</u> , Zhang Zhaowei, Manzl Peter, Gerstmayr Johannes	322 - The application of Collective System Design to develop and improve Small and Medium Enterprises Xu Di, Reich Matt, <u>Cochran David S</u>		
		123 - Digital twin of a tribology test bench: The adjoint gradient computation for parameter identification <u>Nachbagauer Karin</u> , Eichmeir Philipp, Jech Martin, Vorlauffer Georg	223 - Deep learning enhanced surrogate models for multibody system dynamics <u>Manzl Peter</u> , Humer Alexander, Gerstmayr Johannes	323 - Application of Industry 4.0 Technologies for Transparency of Sustainability Data in Multi-Tiered Manufacturing Supply Chains <u>Kopeinig Jacob</u> & Woschank Manuel		
		124 - Ice Adhesion Research in Trentino-Alto Adige <u>Parin Riccardo</u> , Di Novo Nicolò, Bagolini Alvisè, Pugno Nicola	224 - Vibrations of an inclined cable with lumped mass <u>Patreider Moritz</u> , Wenin Markus, Furtmüller Thomas, Adam Christoph	324 - Artificial intelligence in small and medium enterprises: requirements and barriers Salimbeni Sergio & <u>Grünbichler Rudolf</u>		
18:10 19:30	Break					
19:30 22:00	Gala Dinner					

PROGRAMME ISIEA

Friday, 21.06.2024

NOI Tech Park – Via Volta 13/A Bolzano

Parallel Sessions	
<p style="text-align: center;">SEMINAR ROOM 1</p> <p style="text-align: center;">Material Characterization, Fatigue & Wear</p> <p style="text-align: center;">Chair: Mura Andrea</p>	<p style="text-align: center;">SEMINAR ROOM 2</p> <p style="text-align: center;">SME 5.0 – Intelligent, Sustainable and Human-Centred SMEs Part B</p> <p style="text-align: center;">Chair: Rauch Erwin</p>
<p style="text-align: center;">125 - Multi-material fittings with carbon fiber reinforcement from AM process: design and characterization</p> <p style="text-align: center;">De Pasquale Giorgio, <u>Ursi Ferdinando</u></p>	<p style="text-align: center;">225 - A qualitative study exploring maintenance policies of compressed air systems in production</p> <p style="text-align: center;"><u>Isik Birkan</u>, Zilka Miroslav</p>
<p style="text-align: center;">126 - Characterization of compressive behavior of novel bio-inspired additively manufactured composite sandwich structures</p> <p style="text-align: center;"><u>Taghizadeh Seyedahmad</u>, Macconi Lorenzo, Concli Franco</p>	<p style="text-align: center;">226 - Sustainability assessment: a complex many-objective multi-agent multidisciplinary problem</p> <p style="text-align: center;"><u>Bataleblu Ali Asghar</u>, Rauch Erwin, Cochran David S</p>
<p style="text-align: center;">127 - Comparison of low-cycle fatigue criteria for the life prediction of AISI 316L</p> <p style="text-align: center;"><u>Pagliari Lorenzo</u>, Fraccaroli Lorenzo, Maccioni Lorenzo, Concli Franco</p>	<p style="text-align: center;">227 - The influence of electric vehicle technologies on environmental sustainability in industrial reporting: A bibliometric study</p> <p style="text-align: center;"><u>Ben Ali Marwa</u> & Rauch Erwin</p>
<p style="text-align: center;">128 - Molecular dynamics simulation of fatigue crack propagation in single crystal Aluminum under cyclic loading</p> <p style="text-align: center;">Silani Mohammad, <u>Pagliari Lorenzo</u>, Concli Franco</p>	<p style="text-align: center;">228 - Sustainable aspects of intermodal transport: A systematic literature review on the current state</p> <p style="text-align: center;"><u>Hoffelner Mario</u>, Woschank Manuel, Jöbstl Lara</p>
<p style="text-align: center;">129 - Presentation of Associazione italiana costruttori organi di trasmissione e ingranaggi (ASSIOT) Federtec</p> <p style="text-align: center;"><u>Sartori Sergio</u></p>	<p style="text-align: center;">229 - Multi-objective modeling of additively manufactured bio- composite based on support vector machine regression</p> <p style="text-align: center;"><u>Contuzzi Nicola</u>, Morvayova Alexandra, Casalino Giuseppe</p>
<p>8:40 10:20</p>	<p style="text-align: center;">Coffee Break Foyer</p>
<p>10:20 10:50</p>	<p style="text-align: center;">Coffee Break Foyer</p>

Parallel Sessions									
	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 50%; background-color: #d9ead3; text-align: center;"> SEMINAR ROOM 1 Infrared Thermography for Industrial Applications Chair: Curà Francesca Maria </td> <td style="width: 50%; background-color: #fce4d6; text-align: center;"> SEMINAR ROOM 2 Innovative Solutions for Safer and More Sustainable Mobility Chair: Pugi Luca </td> </tr> </table>	SEMINAR ROOM 1 Infrared Thermography for Industrial Applications Chair: Curà Francesca Maria	SEMINAR ROOM 2 Innovative Solutions for Safer and More Sustainable Mobility Chair: Pugi Luca						
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12:10 13:00	Closing Session and Awards ROOM 1								
13:00 14:30	Lunch Foyer								