UNIMORE
UNIVERSITÀ DEGLI STUDI DI MODENA E REGGIO EMILIA

Scuola di Dottorato E4E
Engineering for Economics - Economics for Engineering

PhD Day: Le ricerche dei Ph.D candidates di Ingegneria e Economia

23 febbraio ore 9.30 • Dipartimento di Ingegneria "Enzo Ferrari"

PROGRAMMA

9.30 – 10.00, Affissione poster

10.30 – 11.30, SESSIONI PARALLELE 1

AULA P.04
Corso LSI: Strategies for Inclusion, Equality, and Fairness

chair: dott. Garbriele Marzano, "Integrazione politiche occupazionali e interventi per l'innovazione". Regione Emilia Romagna

Nepoti Francesca	Diversity, equality and Inclusion e regimi di disuguaglianza: il ruolo dei sistemi di performance management *(videopillola)*
Faenza Francesco	Design and development of tools for the implementation, evaluation and analysis of STEM activities to counteract stereotypes and gender gap
Barra Carlotta	A Fuzzy Index For The Evaluation Of Gender Equality In Academia To Guide Gender Equality Plan Actions And Monitor Their Impact
Pagani Maria Beatrice	Inclusione e lavoro: tentativi definitori e approfondimento dei fenomeni all'origine della necessità di inclusione femminile e di genere
Ciccia Romito Chiara	Tutela del lavoro e classificazione delle imprese dalla Datafication all'Intelligenza Artificiale
Palmirotta Federica	The Collective Fight against algorithmic discrimination

AULA P.05
Corso LSI: Strategies and Innovations for Efficiency and Resilience

chair: dott. Giorgio Zucchi - Head of R&D Engineering presso Coopservice

Chiussi Andrea	Industrial waste collection optimization: a real-world case study in Northern Italy
Caruso Giuseppe	Labour Demand and Skill Evolution in the Automotive Industry: A Case Study of Emilia-Romagna

Caselli Giulia	Optimal vehicle replacement with budget constraints and CO2 emissions minimization
Castrogiovanni Antonino	Building a resilient agri-food sector: entrepreneurial and managerial strategies for facing disruptions
Magnaldi Daniele	Applicazione di XGBoost alla valutazione del merito creditizio di Prestito personali erogati via web
Negri Isabella	Building an inclusive environment: innovation and inclusion from the point of view of the lecturers

AULA P2.1
Corso EF: Fluids and Power Systems

chair: dott. Enrico Bedogni, Kosme - Krones

Ongaro Claudio	Technologies and Applications of Microfluidics for Scientific Research
Magnani Mauro	Experimental/Numerical comparison of gas jets.
Boga Gabriele	Numerical experiments on scalar transport and mixing in turbulent boundary layers
Calia Vito	Hydrogen high specific power ICE
Ermini Matteo	Data-driven modelling of elctrical devices for automotive traction systems

AULA P2.2
Corso EF: Materials And Technologies I

chair: dott.ssa Emanuela Franchi, Tetrapack

Rossi Gehlen Larissa	Development of thermally sprayed NbC-based hardmetal coatings
Bursich Simone	Effect of YSZ powder morphology and chemical composition on the coating performance of Industrial Thermal Barrier Coatings (TBCs)
Bonilauri Maria Francesca	Coating of Laser-Powder Bed Fusion (L-PBF) parts by High Velocity Oxygen-Fuel (HVOF) Thermal Spraying
Togni Alessandro	Synthesis of CoCrFeNi-based high entropy alloy thin films by high power impulse magnetron sputtering
Girimonte Aldo	Synthesis of Nanostructured Materials and Their Applications in Electrochemical Energy Storage

AULA P2.3
Corsi ICT&DISMI – Automotive

chair: dott. Marcin Szlosek

Marcin Szlosek	Invited Talk
Galstyan Vardan	Smart Sensors based on Nanomaterials for advanced Monitoring and Diagnostics

Guiducci Alessandro	High reliability and High efficiency electric motor drives for green transportation applications
Giannotta Nicola	High Performance rare earth free Electric Motors for a sustainable and greener agriculture
Mirabella Michele	Vehicle-to-everything (V2X) Communications for Green and Reliable Intelligent Transportation Systems
Righi Stefano	EMI characterization of power unit conversion stages for E-mobility

AULA P2.4
Corsi ICT&DISMI – Sustainability and Digitalization

chair: dott. Lorenzo Sabattini

Magnani Matteo	Enviroinmental Sustainability through Pallet Loading Optimization
Cavecchia Mirko	Data Analysis and Optimization Techniques to Minimize the Environmental Impact of Logistics Processes
Ungureanu Andrei	Life Cycle Assessment (LCA) of CO2 capture from industry sector: the case of ceramic tile manufacturing process
Corrêa, Victor Hugo Vidigal	Optimizing a Car Patrolling Application by Iterated Local Search
Martinelli Matteo	Manufacturing digitisation

11.30 – 12.00, PAUSA e PRESENTAZIONE POSTER

12.00 – 13.00, SESSIONI PARALLELE 2

AULA P.04
Corso LSI: Trasformazioni del lavoro, innovazione e modelli di business

chair: dott.ssa Giulia Tagliazucchi - Researcher and Lecturer in Management, Department of Economics Marco Biagi, Unimore

Ferrari Antonella	Il Modello di organizzazione, gestione e controllo ex D.lgs. 231/2001. - *(videopillola)*
Melis Erika	Analytics for people: concetti e strumenti per la trasformazione data driven delle risorse umane *(videopillola*)
Fratantonio Federico	Rappresentatività e possibili modelli alternativi: il caso delle relazioni industriali nel mondo dell'artigianato e delle PMI
Cecilia Correggi	The interplay between circular business model and digitalization in large european companies: the best is yet to come
Malagoli Federico	Innovazione del Modello di Business e Imprese familiari: conoscenze attuali e direzioni future
Scarpa Antonella	Obiettivo Lavoro. Le proiezioni nel futuro delle giovani generazioni modenesi e la scuola come spazio di possibilità
Pignatti Alessandro	la certificazione dei contratti di collaborazione dei medici veterinari

AULA P.05

Corso LSI: Dati, Privacy e Resilienza nelle istituzioni e nelle supply chain

chair: dott.ssa Ilaria Purificato, Assegnista di ricerca in Diritto del lavoro, Dipartimento di Economia Marco Biagi, Unimore - Fondazione Marco Biagi.

Del Giglio Ilaria	Potere datoriale di controllo, gestione algoritmica e tutela della riservatezza dei lavoratori - *(videopillola)*
Palladini Veronica	Le Istituzioni alla prova di maturità in tema di privacy - *(videopillola)*
Poggi Rolando	I dati delle biobanche: definizioni, metodi e strutture in costante evoluzione
Flori Elisa	A Network Perspective on the DAX 30 Supply Chain: Stylized Facts and Resilience
Lorenzetti Marco	La banda larga in Italia: policy ed evoluzione del mercato
Mucciarini Mirko	Algoritmi di Machine Learning per la previsione della domanda nell'industria alimentare
Coniglione Casimiro	L'information warfare: tra fake news, post-verità e guerra cognitiva

AULA P2.1

Corso EF: Materials and Technologies II

chair: dott. Bruno Maggi, Europomice

Poppi Giulia	Characterization of thermally diffused thermal spray Raney Ni coatings for electrolysers applications
Altimari Fabiana	Volcanic minerals for the green transition: Valorization and eco-sustainable recovery of volcanic and fluxing minerals, and related scraps
Claudia Rubino	Functionalization of abument surface
Bruera Alessia	Aerosol Deposition of CuFeO2 photocathode coatings for solar hydrogen generation
Giovanni Dal Poggetto	Synthesis of geopolymer with industrial waste, chemical and microstructural characterization

AULA P2.2

Corso EF: Dynamics

chair: prof. Silvio Sorrentino

Sirotti Stefano	Mechanics of membrane structures in nonlinear elasticity
Daniel Longhi	Numerical methods for the analysis of brake moan noise
Molaie Emamzadeh Moslem	Complex dynamics of spiral bevel gears
Chiari Alessanro	Indirect measurement of bushings stiffness in a suspension lower control arm

AULA P2.3
Corsi ICT&DISMI – IoT, CyberSecurity and Collaboration

chair: dott. Carlo Augusto Grazia

Venturi Andrea	Novel methodologies for the cyber security of the future
Braglia Giovanni	Methods for a novel collaborative robotics: from programming to human skills transfer
Casari Martina	Artificial intelligence techniques to tackle urban air pollution
De Sabbata Giulio	Data-centric AI, Big Data, Data Integration, Energy data, Process optimization
Bertoli Annalisa	Predictive maintenance in the Industrial IoT field
Antonio Maria Coruzzolo	Applications of Industry 4.0 Technologies for the Management of Industrial Plants

AULA P2.4
Corsi ICT&DISMI – Manufacturing: Modeling and Design

chair: prof. Franco Zambonelli

Seyedeh Farzaneh Hoseini	desiGn of addItive manuFactured niTinol Endovascular Devices (GIFTED)
Abdul Jabbar	Condition monitoring of independent cart systems
Bernardi Fabio	Common mode analysis of non-Isolated integrated Charger based on Neutral Point Clamped converters for Electric Vehicles
Grespan Mattia	Thermal management of high performance components for sustainable mobility
Manuel Mazzonetto	Surface micro – texturing of cutting tools to improve performance during machining
Giulia Renzi	Solving grand challenges with new technology partnerships and ecosystems: An investigation in the dynamics of participation, inclusion, collaboration, and knowledge sharing in European projects.

13.00 - 14.30, LUNCH e PRESENTAZIONE DEI POSTER

14.30 – 15.30, SESSIONI PARALLELE 3

AULA P.04
Corso LSI: Analisi e Prospettive: Welfare, Università, Sicurezza Sociale e Macroeconomia

Chair: Filippo Ferrarini Assegnista di ricerca Dipartimento di Economia Marco Biagi - Unimore

A. Barigazzi, C. Zola, M.C. D'Aguanno, C. Giovinazzo	Welfare data lab: primi risultati e prospettive di ricerca

Poma Erica	Covid-19 and satisfaction with democracy: an insight into the role of institutions and economic-distress
Nizzoli Federica	Gli strumenti di sicurezza sociale alla luce del principio di sostenibilità
Granese Antonio	An American Macroeconomic Picture. Demand and Supply shock in the frequency domain.
Macaluso Matteo	Avvento e mancato sviluppo della TV via cavo in Italia

AULA P.05

Corso LSI: Reimagining Work: Connectivity, Policy, and Performance

Dott. Fabrizio Pancino - Head of Industrial Relations & Regulated Businesses - Gruppo Hera

Ombelli Elisa	Smart Working in Italy after Covid-19 emergency: building an operational model that boosts productivity and enables work life-balance - *(videopillola)*
Martinelli Valeria	Smart Working e performance management.
Luccisano Matteo	Nuovi lavori, nuovi spazi, medesimi diritti, per l'unità produttiva digitale
Pasqualicchio Pierluca B.	La regolamentazione del diritto alla disconnessione nella disciplina sul lavoro agile alle dipendenze della P.A.
Gagliardi Francesca	Potere di controllo e potere disciplinare nel lavoro agile della PA: dalla disciplina alla sua attuazione nel contesto dell'Ispettorato Nazionale del Lavoro
Verzulli Veronica	Welfare aziendale e lavoro autonomo: verso un sistema di protezione sociale universale e "multi-pillar"

AULA P2.1

Corso EF: Design, Process and Measurement

chair: Dott.ssa SIlvia Gaiani, V System

Vacchi Marco	From sustainable technologies to technological sustainability: a new method for analysing and designing products and processes
Riccardo Karim Khamaisi	On the adoption of human monitoring technologies to integrate human factors in the design of industrial systems
Jacopo Lettori	Geometry processing algorithms for robot-based additive manufacturing
Chiara Di Paolo	Design by eXtended Reality methodology in ITER Test Blanket Modules port cells

AULA P2.2

Corsi ICT&DISMI – Electronics and Electrical Systems

chair: dott. Pasquale Di Viesti

Burgoni Marco	Predictive methods for the control of cogeneration plant
Notari Riccardo	Design of High efficiency and sustainability oriented electrical machines

Frigieri Matteo	High Dynamic full digital control of IPM motors based on magnetic models
Sala Andrea	High Efficiency Power Converters based on Wide Bandgap Devices
Asanovski Ruben	Alternative semiconductor materials and architectures for nanoelectronic devices
Leva Federico	Iontronic actuators and nanowire devices for neuron activity stimulation and sensing

AULA P2.3
Corsi ICT&DISMI – Artificial Intelligence and Machine Learning II

chair: dott. Federico Bolelli

Benaglia Riccardo	Graph neural networks for structured data support and analysis
Di Piano Ambra	Deep learning in real-time on the astrophysical data obtained from the Cerenkov CTA Observatory
Fincato Matteo	3D Human pose estimation in industrial environments
Frascaroli Emanuele	Graph neural networks for structured time series prediction in industrial application
Giovanetti Anita	Digital Transformation and Machine Learning applied to Public Healthcare
Mancusi Gianluca	Deep learning for Multiple Object Tracking and 3D

AULA P2.4
Corsi ICT&DISMI – Biomedical-based Solutions

chair: prof. Luigi Rovati

Di Pinto Valentina	Optoelectronic sensors for biomedical instrumentation: theoretical and experimental studies
Goldoni Daniele	Advanced integrated electronic biosensensors for nanoscale entity detection
Perliti Scorzoni Paolo	Digital Transformation and Machine Learning applied to Public Healthcare
Masetti Ettore	Advance Optical Methods and technologies for Non-invasive Ophthalmic Instrumentation
Bolsi Beatrice	A multi-skill assignment problem to enhance patient experience in outpatient facilities
Vecchi Sara	Material-to-Device Modeling for Emerging Technologies

15.30 – 16.00, PAUSA e PRESENTAZIONE POSTER

16.00 – 17.00, SESSIONI PARALLELE 4

AULA P0.4
Corso LSI: Sustainability Across Industries

Chair: dott. Luca Gambarelli - Ricercatore a tempo determinato, Dipartimento di Economia Marco Biagi - Unimore

Carlino Alessandro	Data-Drivem approaches for the analysis and optimization of bankink operations: customer satisfaction and fraud detection - *(Videopillola)*
Monturano Gianluca	Anticipating Delays in Cohesion Infrastruture Projects by Machine Learning - *(Videopillola)*
Columbu Giomaria	Modelli e metodi per la valutazione strategica, l'ottimizzazione e la sostenibilità ambientale di asset per la gestione dei rifiuti - *(Videopillola)*
Bergianti Francesca	"Government eco-exemplarity influence on pro-environmental consumption behaviors"
De Maria Fabio	The 5 E(lements) of employee-centric CSR and their stimulus on Happiness At Work: an empirical investigation
D'Ecclesiis Enrico	Shades of Green: Exploring the Link Between Environmental Attitudes and Political Voting with Machine Learning
Fusari Carlo	Un modello per la valutazione dell'impatto sociale degli spazi collaborativi
Merzi Laura	Accountability per catene di valore circolari, sostenibili e centrate sull'uomo nelle industrie ceramiche

AULA P2.1
Corso EF: Energy Production And Management

chair: Dott. Roberto Corsini

Rossi Vincenzo	System Design and Assessment of Active Heating Devices to Reduce Cold Start Emissions of Gasoline Internal Combustion Engines
Ottani Filippo	Thermal and electrical characteristic of gasification biochar
Contini Giuditta	GreenDesign: how to adopt digital technologies for the sustainable design of manufacturing plants

AULA P2.3
Corsi ICT&DISMI – Big Data

chair: dott. Giovanni Simonini

Zecchini Luca	Task-driven Big Data Integration
Del Buono Francesco	Development, implementation and testing of techniques based on time series and data mining to environmental, hydrological and hydraulic data
Baraldi Andrea	Intelligent Techniques and Natural Language Processing for (Explainable) Data Integration

Aslam Adeel	Big Data and Artificial Intelligence for Energetic Virtuosity in Local Energy Communities
Bachechi Chiara	Mobility Data Modelling and Mining for Smart Cities

AULA P2.4
Corsi ICT&DISMI – Artificial Intelligence and Machine Learning I

chair: dott. Angelo Porrello

Simoni Alessandro	Computer Vision and Artificial Intelligence for Collaborative Robotic Environments
Amoroso Roberto	Trustworthy self-attentive models for visual-semantic understanding
Bonicelli Lorenzo	Few shot and zero shot continual learning
Bonisoli Giovanni	Deep learning for Event Extraction from Web Data Streams
Niyati Rawal	Integration of vision and language for human-robot interaction

SALA A - PIANO TERRA
17.00, SESSIONE PLENARIA

Elevare il valore del Dottorato: Prospettive dei Coordinatori, dei Dottorandi e dell'Industria

Marco Moscatti, Presidente del Gruppo Giovani Imprenditori di Confindustria Emilia

TAVOLA ROTONDA

Ylenia Curzi, Coordinatrice del Corso in Lavoro, Sviluppo e Innovazione
Luca Lusvarghi, Coordinatore del Corso in Ingegneria Civile, Ambientale e dei Materiali
Alberto Muscio, Coordinatore del Corso in Ingegneria meccanica e del veicolo "Enzo Ferrari"
Luigi Rovati, Coordinatore del Corso in Information and Communication Technologies
Franco Zambonelli, Coordinatore del Corso in Ingegneria della Innovazione Industriale

Antonino Castrogiovanni, Rappresentante dottorandi Corso in Lavoro, Sviluppo e Innovazione
Veronica Dallari, Rappresentante dottorandi Corso Ingegneria Civile, Ambientale e dei Materiali
Luca Bortolotti, Rappresentante dottorandi Corso Ingegneria meccanica e del veicolo "Enzo Ferrari"
Andrea Baraldi, Rappresentante dottorandi Corso Information and Communication Technologies

Modera: Tommaso Fabbri, Vice-Direttore della Scuola E4E

PRESENTAZIONI POSTER

Alessandro Montagneretto	L' Idrogeno nell'Industria Ceramica
Andrea Francescato	Adsorbent Materials for Cultural Heritage Preventive Conservation
Andrea Martelli	Mg-Sr doped Bioactive Glass: from design to scaffold production
Aurelio Giulio Mario	Certificazione di terza parte – fattore esimente responsabilità solidale
Baridi Ghassem	Optoelectronic methods and instrumentation for biomedical smart sensors
Barone Valeria	Il principio mancante. La non discriminazione algoritmica e la tutela giuridica della persona nell'era dell'IA
Barsellotti Luca	Open World and Few-Shot Object Detection and Semantic Segmentation
Bellinvia Adriano	Exploring the Dynamics of ESG Factors: Influence on Performance, Risks, and Controversies in Financial and Non-Financial Enterprises
Benatti Lorenzo	Neuromorphic Computing Hardware for Low-Power Edge-A
Bernabei Filippo	Control and coordination of connected and autonomous vehicles
Besi Giulio	Collaborative Robotics for Rehabilitation
Bonetti Alessandro	Multi-Agent Pathfinding Algorithms to Optimize AGV Fleet Management
Borghi Simone	Physiological analysis to optimize industrial tasks
Bortolotti Luca	CoBRAIN Project: Developing Sustainable Wear and Corrosion Resistant Coatings through Machine Learning and High Entropy Alloys
Campanelli Ludovico	MuSA: a lumped parameter model for flow and thermal analysis
Canovi Chiara	Efficient mineralization of microplastics and nanoplastics: optimization of photocatalytic microstructures
Capitani Giacomo	Development of deep learning techniques based on Graph Neural Networks for the integration of heterogeneous and multiscale data
Cardu Marco	Fatigue behavior of components made in Additive Manufacturing
Carotenuto Carlo	Theoretical and numerical analysis of the fluid-dynamics phenomena for biomedical applications
Cartella Giuseppe	Multimedia Learning for Automatic Metadata Extraction from Cultural and Historical Archives
Catellani Mattia	Unraveling the Swarm: Investigating Coordination Strategies in Multi-Robot Networks
Chiara Ruini	Environmental impact of sustainable conservation and restoration of Cultural Heritage via Life Cycle Assessment methodology: the case study of Chichén Itzá.

Claps Marco	Exact algorithms for a shift scheduling problem in intra-hospital patient transfer
Claudiu Di Gaetano	Thermal optimization of a new generation of electrified and sustainable powertrains
Contiero Nicolò	La compliance integrata: dalla prevenzione del "rischio reato" alle sfide dello sviluppo sostenibile
Corda Giuseppe	Numerical modelling of PEM Electrolysis Cell
Cossu Michele	Dew Point Evaporative Cooling: Advantages and Applications
Dallari Veronica	Monitoring of foundation settlement by means of satellite data
De Grandis Luca	Deep Learning for Natural Language Processing and Document Understanding
De Vivo Luigi	La gestione dell'appalto di servizi logistici integrati e l'organizzazione automatizzata mediante software: uno studio in funzione della genuinità
Di Nucci Davide	Computer Vision technologies for 3D Vehicle digitization and understanding
Dotti Giulia	An Integrated Decision Support System for Intra-logistics Management with Peripheral Storage and Centralized Distribution
Ebrahimnejad Razieh	/
Fabio Esposito	HEA for Hydrogen storage applications
Ferrari Benedetta	Mars Observation Scheduling Problem: optimizing the search for underground water
Ferrari Elisa	Titanium: treatement solution to improve wear behavior in automotive and aerospace application
Ferretti Corradi Riccardo	Antennas, ElectroMagnetic Compatibility (EMC) and electromagnetic simulations-
Franciosi Mattia	Shot-Earth: A Material for Structural Engineering
Frisella Giovanna	La posizione di garanzia del datore di lavoro al tempo del covid e il contenuto dell'art 2087 cc. Rischio contagio in azienda e responsabilità oggettiva
Furnari gabriele	Robotics and intelligent machine for healthcare and wellness of persons
Galati Nicolò	Integrated approach: classification and reproduction of Carbon Fiber Reinforced Polymers (CFRP) defects
Galanti Marco	Surface treatments for tiles: unraveling optimal machine-product settings through multivariate analysis and product development
Gallerani Alessia	Innovative sensor development for biomedical applications
Garuti Fabrizio	AI in Fintech: Semi-supervised Learning for Transactional Time Series and Financtial Data
Ghassem Baridi	simulation and expermental result of GFET transistor for sensing B2 micgrolagolblien protien
Ghita Eslami Varzaneh	Serviceability assessment of footbridge vibrations
Giorgino Giovanni	Caratterizzazione e simulazioni TCAD di dispositivi di potenza in nitruro di gallio

Giuseppe Totaro	Da definire
Granata Francesco Maria	Multimodal Retrieval Augmented Generation for Question Answering and Information Extraction
Gozzi Marica	Study and selection of innovative materials for applications in the automotive and aeronautical sectors and development of optimised production techniques
Gualdi Daniele	Instability Issues in Automotive Drivelines
Guida Francesca	Finanza sostenibile e finanziamento della ricerca biomedica
Guiduzzi Giacomo	Data analysis of the criminal and civil trial in order to structure a predictive system of the times of the trial-
Iotti Simone	Shot-Earth: assessment of sustainability and how atmospheric agents can influence its behaviour
Kaya Ahmet Fatih	Modelling of fuel cell hybrid vehicles, from hydrogen production to application
Kaya Elif	1D Isothermal Lithium-Ion Battery Numerical Modelling Under Different Conditions
Livaldi Andrea	Big Data per processi industriali sostenibili
Lucchese Adriana	Predictive maintenance for industrial plants and for energy saving
Luigi Leopardi	Lumped parameter modelling for autolearning digital twin models
Lumetti Luca	Healthcare applications of Artificial Intelligence, Computer Vision and Medical Imaging
Manghi Ilaria	3D Liver Reconstruction for Surgical Navigation
Mantovani Mattia	Distributed Coverage Control for Time-Varying Spatial Processes Estimation with Noisy Observations
Martinelli Claudio Giovanni	La riforma del diritto del lavoro sportivo e le possibili applicazioni della certificazione dei contratti
Mecca Francesco Gerardo	Bioactive glass doped with magnesium and strontium: bioactivity assessment and electrospun scaffold manufacturing
Menabue Martin	AI techniques for time series analysis and prediction exploiting structured information
Millunzi Monica	Novel deep Learning techniques under weakly and uncertain annotation in continuous and batch regime
Moghimimonfared Reza	Auxetic Metamaterials with a 2D Tessellation Topology
Molinari Giuseppe	Intelligenza artificiale e mutamento della struttura del mercato del lavoro
Moratelli Nicholas	Document Understanding e Natural Language Processing
Mozzillo Angelo	High Perfomance Data-Integration for AI-
Muratori Elena	Il whistleblowing in un’ottica di promozione del benessere organizzativo nell’ente pubblico e privato

Nannetti Francesca	Mapping the Green Workforce: a Corpus-Based Analysis of Skills and Job Opportunities in the Ecological Transition
Napolitano Martina	The environmental transition through circularity in the management of national waste and raw materials: fertilizers context
Nini Matteo	Parameter Identification and Secure Control of an Industrial Robot
Oldoini Davide	NVH analysis on electric motors with reduced rare earth content
Onfiani Dario	xtending Robotic Manipulation apabilities by Cooperative Mobile and Flexible Multi-Robot Systems
Paggetti Simone	Additive manufacturing and food contact
Panariello Aniello	AI techniques for time series analysis and prediction exploiting structured information
Pandolfi Antonio	Engineering methods and tools for model-based optimal design and virtual prototyping of flexible robotic cells
Parmeggiani Davide	Downscaling of global dataset to study UHI and UPI interactions
Pavan Anna	/
Pazzi Milena	Design, development and characterization of highly durable thin films for decorative applications
Pianfetti Elena	Studying host-pathogen interaction via microscopy and Deep Learning: application to antimicrobial resistant bacteria and monoclonal antibodies discovery
Piombini Edoardo Renato	Technological innovations and inequalities in health and social care economics.
Pitardi Marco	Soil Flux and Atmospheric Dispersion of VOC Emitted from Contaminated Soils: Modelization and Field Measurements
Puglisi Francesco	/
Quattrini Fabio	Computer Vision Solutions for Cultural and Historical Multimodal Sources
Rachit Soni	Levees Affected by Mammal Bioerosion
Riccardo Gasperoni	Novel Description of Riparian Vegetation in 2D Surface Flow Models
Rossini Enrico	Distributed Mobility Intelligence in Edge-to-Cloud Compute Continuum
Ruo Andrea	CBF-Based Motion Planning for Socially Responsible Robot Navigation Guaranteeing STL Specification
Sala Giada	Novel high performance electric motors by means of additive manufacturing and innovative materials
Sala Luca	Data Management, analytics and intelligent AI-based knowledge extraction for multilingual and multi-alphabetic heritages
Salvatori Roberta	Wound healing : a new bioactive material
Sania Aftar	Data Management, analytics and intelligent AI-based knowledge extraction for multilingual and multi-alphabetic heritages

Sarto Sara	Advances in (Self-attentive and semi-supervised) AI Architectures for large scale, explainable Image Retrieval
Sassetti Riccardo	Design of more-electric tractors for a more sustainable agriculture
Sedoni Roberto	Study and development of innovative solutions for heating, ventilation, and air conditioning for nearly zero energy building
Sergio Ferrarini	Integrated design methods and tools for flexible and efficient robotic production systems adopting digital twin and industry 4.0 approaches
Sfriso Stefano	Hydrogen combustion modelling
Siciliani Vincenzina	Ultrashort laser texturing applications
Simone Pizzileo	Flood plain inundation modeling with explicit description of land surface macrostructures
Soldati Luca	CASM: exploitation of post-buckling stable path in seismic energy dissipation
Taccini Marco	Decision Support Systems for Intra-logistics Management in the Ceramic Tile Sector
Tondelli Lisa	Nanosecond timescale self-heating effects in advanced FinFET and FDSOI nanoscale MOSFETs
Trane Danila	Forced and mixed convection in liquid metals (to be confirmed)
Trigiante Lisa	Privacy-Preserving Record Linkage for E-Health
Vezzali Enrico	Fast super-resolution of 1D and 2D barcodes for real-time Industrial Applications
Vignoli Elia	Detection and Tracking of the Small Movements of Extended Targets through Mmwave Multiple-Input Multiple-Output Radar Systems
Vogni Mattia	Wide-bandgap based Power converters for improved efficiency and reliability-
Zuccarini Ermanno	QGIS platform and ML paradigms for UHI predictions