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Judul Jurnal Ilmiah (Artikel) : Optimization and prediction of motorcycle injection system performance with feed-forward back-propagation method artificial neural network (ANN)

Jumlah Penulis : La Ode Ichlas Syahrullah dan **Nazaruddin Sinaga***

Status Pengusul : Penulis ke-2

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- a. Nama Jurnal : American Journal of Engineering and Applied Science
- b. Nomor ISSN : 1941-7039
- c. Volume, nomor, bulan tahun : 9, 2, Februari 2016
- d. Penerbit : Science Publications
- e. DOI artikel (jika ada) : 10.3844/ajeassp.2016.222.235
- f. Alamat web jurnal :
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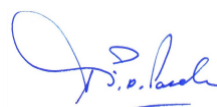
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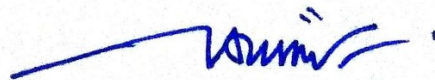(beri √ pada kategori yang tepat)  [ ]  Jurnal Ilmiah Nasional Terakreditasi

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## Abstract

This research studied the use of Artificial Neural Network (ANN) using feed-forward back-propagation model to optimize and predict the performance of a motorcycle fuel injection systems of gasoline. The parameters such as speed, throttle position, ignition timing and injection timing is used as the input parameters. While the parameters of fuel consumption and engine torque is used as the output layer. Lavenberg- Marquardt model type with train function tanh sigmoid and 25 neurons number is used to generate the target value and the desired output. Variation of ignition timing as optimization variable in a wide range of speed and throttle position is used in experimental tests. ANN is used to investigate the prediction of performance motorcycle engines and compared with the test results. Results showed that the operation of ANN in predicting engine performance is very good. From the test results obtained a smooth contour MAP compared to the initial state. The prediction result and performance test show a good correlation in small error value of training and test that is regression with range 0.98-0.99, mean relative error with range 0.1315-0.4281% and the root mean square error with range 0.2422-0.9754%. This study shows that the feed-forward back propagation on ANN model can be used to predict accurately the performance of a motorcycle engine injection system. © 2016 La Ode Ichlas Syahrullah and Nazaruddin Sinaga.

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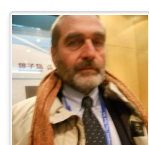
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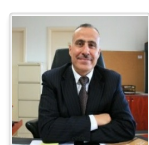
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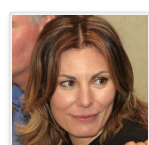
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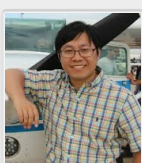
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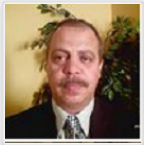**Expertise:** Image processing, automated feature extraction, signal denoising

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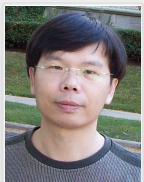
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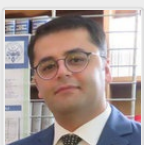
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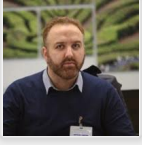**Abbas Razavykia**

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the Italian Aerospace Research Centre

Italy

**Expertise:** D Seismic, Acoustics/Vibration/Ultrasound, Adaptive Control, Aerospace, Applied Mechanics, Computational Modeling, Control systems, Diagnostics, Embedded Systems, Engineering design / R&D, Fiber Optics, Internet of Things, Linear Systems, Materials technology/engineering, Mechanical Engineering, Neural Network, Non-Linear System Theory, Optimal Control, Performance Analysis, Rehabilitation engineering, Robotics, Sensor Networks Comms and Signal Processing, Structure and Materials, Biotechnology

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**Antonio Ficarella**

University of Salento

Italy

**Expertise:** Engineering, Aerospace, Automobile Engineering/Vehicles, Energy Conservation and Electrical Safety, Engines, Fluid Devices/Systems, Fluid Mechanics, Fluid Mechanics, Fuel Cells, Heat Transfer, Mechanical Engineering, Power/Energy, Renewable Energy and Distributed Generation

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**Ardhendu Behera**

Edge Hill University

United Kingdom

**Expertise:** Artificial Intelligence, Computer Vision, Image Processing, Multimedia Applications, Pattern Recognition

---

**Arindam Sanyal**

The State University of New York at Buffalo

United States

**Expertise:** Engineering, Electrical/electronic engineering, Electrical Engineering, Electronics, Embedded Systems, Modem & Transceiver Design, Semiconductor Components and Circuits

---

**Asit Kumar Gain**

UNSW

Australia

**Expertise:** Manufacturing pore-gradient scaffold materials for Bio-implants; Nanocomposite materials; Developing defect free polymer-based microlens arrays; Understand microstructure-property relationships of advanced materials by electron microscopy characterization; and Electronic Packaging and their reliability study

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**Behrouz Takabi**

Texas A&M University

United States

**Expertise:** Aerospace, Civil / Offshore / Water Engineering, Computational Modelling, Drilling Fluids, Fluid Devices / Systems, Fluid Mechanics, Heat Transfer, Mass Transfer, Mechanical Engineering, Modelling / Simulation, Modelling and Simulation, Nanomaterials / Nanostructures, Numerical Simulations, Reservoir Fluids, Thermal Engineering / Systems

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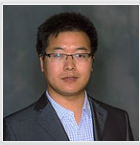**Behzad Behnia**

Clarkson University

United States

**Expertise:** Acoustics/Vibration/Ultrasound, Civil Engineering, Civil Engineering Materials, Computational Modelling, Pavement Design, Rail/Rapid Transit, Sensor Networks Comms and Signal Processing, DSP, Wireless Sensor Network

**Belkacem Zeghmati**

Universite de Perpignan

France

---

**Changyong Cao**

Michigan State University

United States

**Expertise:** Robotics, Wireless Sensor Networks, Advanced Carbon and Bio-based Materials, Advanced Energy Materials, Advanced Functional Materials, Novel Composites and Applications, Novel Nanomaterials and Applications, Applied Mechanics, Civil Engineering, Computational Modelling, Electronics, Engineering Mechanics, Failure/Strain/Stress/Fatigue Analysis, Manufacturing, Mechanical Engineering, RFID and Smart Card Technology

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**Cheryl Ann Alexander**

Samford University

United States

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**Chiara Biscarini**

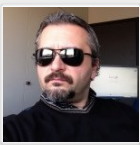Università per Stranieri di Perugia

Italy

**Expertise:** Engineering, Civil/Offshore/Water Engineering, Civil Engineering, Computational Modelling, Environmental Engineering, Fluid Mechanics, Hydraulics, Modeling/Simulation, Natural Hazards, Numerical Simulations, Risk Management, Gases, Fluid Dynamics and Plasmas, Geomorphology

---

**Dhawal Jain**

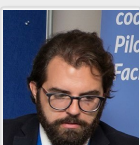Harvard Medical School

United States

**Expertise:** Bioinformatics, Speech Processing and Recognition, Speech/Audio/Image/Video and Image Processing, Statistical Signal Processing, Biochemistry, Biodiversity and Marine Biology, Bioinformatics, Biological Sciences, Bioremediation, Biotechnology, Genetics, Microbiology, Molecular Biology

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**Domenico Tescione**
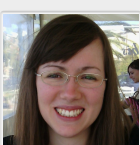
CIRA - Italian Aerospace Research Centre

Italy

**Expertise:** Chemistry, Novel Carbon-Based Materials, Aerospace, Applied Mechanics, Computational Modeling, Failure/strain/ stress/ fatigue analysis, Heat Transfer, Manufacturing, Materials production, Nanomaterials/nanostructures, Non-Destructive Testing (NDT), Polymers and Composites, Structural Engineering, Thermal engineering/ systems

---

**Elias P Koumoulos**

National Technical University of Athens

Greece

**Expertise:** Aerospace, Engineering Mechanics, Industrial Automation, Advanced Carbon and Bio-based Materials, Advanced Functional Materials, Advanced Polymers, Novel Carbon-Based Materials, Novel Composites and Applications, Novel Nanomaterials and Applications, Artificial Intelligence, Bioinformatics, Biomechanics/Orthopedic Engineering, Biomedical Devices/Surgical Specialisms, Concrete Durability, Construction Engineering, Environmental Engineering, Tribology, Waste/Pollution/Environment, Water Resources Engineering

---

**Elisa Bertolesi**

Universitat Politecnica de Valencia

Spain

**Expertise:** Civil Engineering, Civil Engineering Materials, Materials Technology/Engineering, Modeling and Simulation, Non-Destructive Testing (NDT), Numerical Simulations, Structural Engineering

---

**Enrico Vezzetti**

Politecnico di Torino

Italy

**Expertise:** Algorithms, Artificial Intelligence, Bioinformatics, Biometrics, Computer Vision, Engineering design / R&D, Image Processing and Pattern Recognition in Automation, Multimedia Applications, Neural Network, Performance Analysis

**Ertugrul Durak**

Süleyman Demirel University

Turkey

**Expertise:** Machine Design, Machine Elements, Mechanical components, Mechanical Engineering, Tribology

---

**Fabio Minghini**

University of Ferrara

Italy

**Expertise:** Structural engineering, Seismic analysis of structures, Seismic vulnerability assessment, Structural retrofitting/repair, FRP composite structures, Steel and conconcrete composite structures, RC structures, Masonry structures, Thin-walled structures, Stability (buckling) analysis of structures, Nonlinear analysis of structures

---

**Fabio Mazza**

Università della Calabria

Italy

**Expertise:** D Seismic, Civil Engineering, Control Systems, Repair and Rehabilitation of Structures

---

**Fang Xia**

Murdoch University

Australia

**Expertise:** Phase Equilibria, Economic Geology, Geochemistry, Mineralogy

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**Fernando J. Castillo García**

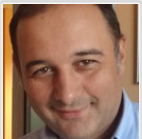Universidad deCastilla-La Mancha

Spain

**Expertise:** Engineering, Adaptive Control, Control systems, Industrial Automation, Industrial Robots, Linear Systems, Robot Arms Dynamics and Control, Robotics

---

**Flavio Farroni**

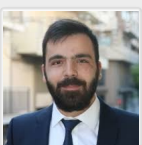Università degli Studi di Napoli Federico II

Italy

**Expertise:** Applied Mechanics, Transportation Engineering, Vehicle Dynamics, Tribology, Surface Science

---

**Franco Fiori**

Politecnico di Torino

Italy

**Expertise:** Electrical/Electronic Engineering, Internet of Things, Metrology/Measurement Systems, Modeling/Simulation

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**Georgios S. Papavasileiou**

University of the Highlands and Islands

United Kingdom

**Expertise:** Structural Engineering, Steel-Concrete Composite Structures, Civil Engineering, Computational Modeling, Construction Engineering, Engineering Mechanics, Global Optimization, Natural Hazards, Numerical Simulations, Repair and Rehabilitation of Structures

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**Gianfranco Morani**

Italian Aerospace Research Centre

Italy

**Expertise:** Aerospace, Adaptive Control, Algorithms, Control systems, Deterministic Modeling and Simulation, Digital Signal Processing, Engineering Probabilistic Design, Engineering Probability and Statistics, Linear Programming, Optimal Control, Performance Analysis, Statistical Signal Processing, Stochastic Simulation
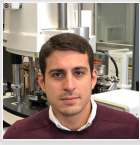
### Gino Iannace

Università della Campania Luigi Vanvitelli

Italy

**Expertise:** Aerospace, Acoustics/Vibration/Ultrasound, Artificial Intelligence and Expert Systems in Control

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### Gioacchino Alotta

University of Palermo

Italy

**Expertise:** Acoustics/Vibration/Ultrasound, Applied Mechanics, Biomechanics/Orthopedic Engineering, Civil Engineering, Engineering Probability and Statistics, Materials Properties, Modelling and Simulation

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### Giuseppe Del Giudice

Università degli Studi di Napoli Federico II

Italy

**Expertise:** Civil/Offshore/Water engineering, Civil Engineering, Environmental Engineering, Environmental Protection and Safety, Fluid Mechanics, Hydraulics, Natural Hazards, Water Resources Engineering

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### Giuseppe Carbone

University of Cassino and South Latium

Italy

**Expertise:** Industrial Automation, Industrial Robots, Multi-body Dynamics, Robotics

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### Hassen Jaafar

Institut National de Recherche et d'Analyse Physico-chimique

Tunisia

**Expertise:** Advanced Energy Materials, Advanced Functional Materials, Novel Composites and Applications, Novel Functional Inorganic Materials, Novel Nanomaterials and Applications, Chemical Engineering, Electrochemical Engineering, Solid State Chemistry, X-Ray Crystallography

---

### Hongseok Choi

Clemson University

United States

**Expertise:** Novel Composites and Applications, Novel Functional Inorganic Materials, Novel Nanomaterials and Applications, Acoustics / Vibration/ Ultrasound,Engineering Design / R&D, Manufacturing, Materials Technology, Mechanical Engineering, Micro / Meso / Nano / Technology, Nanomaterials / Nanostructures, Polymers and Composites, Process Modeling and Optimization, Process Monitoring and Control
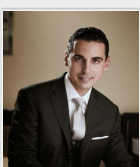
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### Huamin Li

University at Buffalo

United States

**Expertise:** Nanomaterials/nanostructures, Novel Nanomaterials and Applications, Electric Drives, Electronics

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### Ignazio Dimino

CIRA, The Italian Aerospace Research Centre

Italy

**Expertise:** Aerospace, Aerodynamics, Aerospace Components, Aircraft, Design engineering, Actuators, Aerospace testing, Geometry, Numerical Analysis, Optimization, Shafts, Wind Tunnels, Acoustics/Vibration/Ultrasound, Adaptive Control, Adaptive Filtering, Algorithms, Applied Mechanics, Engineering R&D, Engineering Mechanics, Environmental Engineering, Environmental Protection and Safety, Failure/Strain/Stress/Fatigue Analysis, Linear Systems, Mechanical components, Mechanical Engineering, Mechanisms Design/Analysis, Modeling/Simulation, Modeling and System Identification, Multi-body dynamics, Neural Network, Non-Linear System Theory, Numerical Simulations, Performance Analysis, Structural Engineering, Structure and Materials

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### Imad H. Makki

University of Michigan - Dearborn

United States

**Expertise:** Engineering, Adaptive Control, Artificial Intelligence and Expert Systems in Control, Automobile engineering/vehicles, Computational Modeling,

Control systems, Deterministic Modeling and Simulation, Diagnostics, Digital Signal Processing, Electrical Engineering, Engines, Linear Systems, Mechanical Engineering, Non-Linear System Theory, Numerical Simulations, Optimal Control, Robotics

**Ion Stiharu**

Concordia University

Canada

**Expertise:** Engineering, Applied Mechanics, Automobile Engineering/Vehicles, Biomedical Effects of Electric and Magnetic Fields, Engineering R&D, Engineering Mechanics, Hydraulics, Manufacturing, Mechanical Components, Mechanical Engineering, Tribology, Turbomachinery / Fluid Power

**Joao Manuel R.S. Tavares**

Universidade do Porto

Portugal

**Expertise:** Biomechanics/Orthopedic Engineering, Computational Modeling, Computer Engineering & Computer Science, Computer Systems, Computer Vision, Computing Methodologies and Applications, Digital Signal Processing, Engineering Design/R&D, Engineering Mechanics, Image Compression and Coding, Image Processing and Pattern Recognition in Automation

**Jose Reinoso**

Universidad de Sevilla

Spain

**Expertise:** Applied Mechanics, Computational Modeling, Materials Technology/Engineering, Mechanical Engineering, Structural Engineering
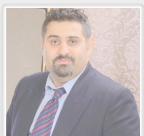
**Junyu Xuan**

University of Technology Sdyney

Australia

**Expertise:** Computer Science Engineering Mathematics Decision Sciences Business, Management and Accounting Materials Science Social Sciences

**Kaveh Ostad-Ali-Askari**

Islamic Azad University

Iran

**Expertise:** Civil/Offshore/Water Engineering, Civil Engineering, Environmental Engineering, Fluid Mechanics, Hydraulics, Reservoir Fluids, Waste/Pollution/Environment, Water Resources Engineering, Environmental Chemistry, Environmental Geology
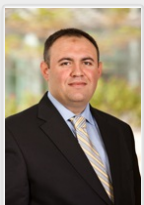
**Khamis Essa**

University of Birmingham

United Kingdom

**Expertise:** Manufacturing, Mechanical Engineering, Modeling and Simulation, Process modeling and optimization

**Kursat Kara**

Khalifa University

United Arab Emirates

**Expertise:** Aerospace, Fluid Mechanics, Heat Transfer, Mechanical Engineering, Modeling and Simulation, Numerical Simulations, Parallel Processing, Turbomachinery / fluid power, Gases, Fluid Dynamics and Plasmas
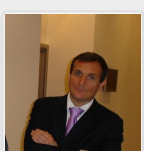
**Lei-Yong Jiang**

National Research Council of Canada

Canada

**Expertise:** Aerospace, Computational Modelling, Engines, Fluid Mechanics, Heat Transfer, Modelling and Simulation, Numerical Simulations

**Lorenzo Fedele**

Sapienza University of Rome

Italy

**Expertise:** Aerospace, Maintenance Planning & Control, Mechanical Engineering, Productivity Measurement, Evaluation, Planning, and Improvement, Quality Control, Risk Management, Soft Computing, Systems Engineering, Systems Reliability/Maintainability, Systems Safety Engineering
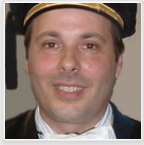
**Lorenzo Cappietti**

University of Florence

Italy

**Expertise:** Civil / Offshore / Water engineering, Fluid Mechanics, Fluid mechanics, Hydraulics, Marine Craft / Maritime operations, Numerical Simulations, Renewable Energy and Distributed Generation, Water Resources Engineering, Marine Geology and Geophysics

**Luigi Mollo**

University of Campania

Italy

**Expertise:** Civil Engineering Materials, Construction Engineering, Engineering Design/R&D, Internet of Things, Materials Technology/Engineering, Measurements and Instrumentations, Process Systems Engineering, Rehabilitation Engineering

**Lujun Wang**

Zhejiang University

China

**Expertise:** Civil/offshore/water engineering, Civil Engineering, Computational Modeling, Geotechnical Engineering, Mechanical Engineering

**Mahmoud Askari**

Politecnico di Torino

Italy

**Expertise:** Aerospace, Acoustics/vibration/ ultrasound, Applied Mechanics, Computational Modeling, Mechanical Engineering, Structural Engineering, Structure and Materials
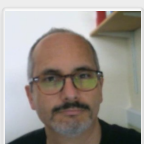
**Manoj Khandelwal**

Federation University

Australia

**Expertise:** Earth and Planetary Sciences Environmental Science Computer Science Engineering Agricultural and Biological Sciences Energy Mathematics Materials Science

**Marcello Trovati**

Edge Hill University

United Kingdom

**Expertise:** Algorithms, Artificial Intelligence, Bioinformatics, Discrete Structures, Graph Theory, Computational Modeling, Fractal Analysis, Modeling and Simulation, Network Modeling and Algorithms, Soft Computing, Mathematical Physics
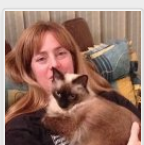
**Marco L. Della Vedova**

Universita Cattolica a Brescia

Italy

**Expertise:** Algorithms, Artificial Intelligence, Real-Time Computer Systems, Robotics

**María Cristina Hernández**

Universidad Simón Bolívar

Venezuela

**Maria Grazia Violante**

Politecnico di Torino

Italy

**Expertise:** Artificial Intelligence, Engineering R&D, Human Factor Engineering, Internet of Things, Multimedia Applications
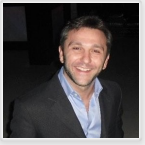
**Mariacristina Gagliardi**

IMT School for Advanced Studies Lucca

Italy

**Expertise:** Advanced Energy Materials, Advanced Polymers, Biodegradable

materials, Thermoresponsive polymers, Novel Nanomaterials, Applied Mechanics, Biomedical devices/ surgical, Cardiovascular system, Tissue engineering/bioprocessing, Drug/hormone/ anesthesia delivery, Chemical Engineering, Computational Modeling, Condensed Matter Physics

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### Mario De Cesare

Italian Aerospace Research Centre (CIRA) and Italian Institute for Nuclear Physics (INFN)

Italy

**Expertise:** Aerospace, Diagnostics, Measurements and Instrumentations, Natural Hazards, Particle technology, Space Dynamics, Tribology, Waste/pollution/ environment, Corrosion Science, Earth Sciences, Electromagnetism and Optics, Elementary Particles and Nuclear Physics, High Energy Physics, Laser Physics and Spectroscopy, Material Research with Ions, Materials Science, Nuclear and Radiation Physics, Physics

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### Matteo Davide Lorenzo Dalla Vedova

Politecnico di Torino

Italy

**Expertise:** Aerospace, Applied Mechanics, Computational Modeling, Deterministic Modeling and Simulation, Diagnostics, Engineering Mechanics, Fiber Optics, Hydraulics, Modeling and Simulation, Numerical Simulations, Systems Engineering, Systems Safety Engineering

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### Md Akhtar Khan

Gandhi Institute of Technology and Management

India

**Expertise:** Aerospace, Fluid Dynamics, Low Reynolds Number Flyer, Steady and Un-steady Aerodynamics, Finite Element Analysis, Flapping Wing Aerodynamics, Fluid Mechanics
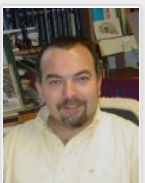
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### Mehmet Kanik

Massachusetts Institute of Technology

United States

**Expertise:** Advanced Energy Materials, Advanced Functional Materials, Novel Nanomaterials and Applications, Biomedical devices/ surgical specialisms, Biomedical Effects of Electric and Magnetic Fields, Electronics, Fiber Optics, Infrared and Optical Communications, Medical imaging, Nanomaterials, Rehabilitation Engineering, Tribology, Biological Sciences, Biotechnology, Nanochemistry, Nanophysics, Physics, Solid State Physics, Surface Science
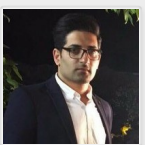
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### Mehmet Sarikaya

University of Washington

United States

**Expertise:** Advanced Carbon and Bio-based Materials, Advanced Functional Materials, Novel Composites and Applications, Novel Functional Inorganic Materials, Novel Nanomaterials and Applications, Biomimetics, Nanomedicine, Bioelectronics, Bioinformatics, Biomechanics/Orthopedic Engineering, Biomedical Devices/Surgical Specialisms, Biomedical Effects of Electric and Magnetic Fields, Chemical Engineering, Hormone/Anaesthesia delivery, Electronics, Neural Network, Particle Technology, Atomic and Molecular Physics, Biochemistry, Biodiversity and Marine Biology
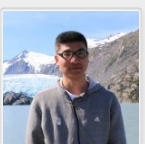
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### Mehran Heydari

University Of Alberta

Canada

**Expertise:** Chemical Reaction Engineering, Modeling and Simulation of chemical Reactors, Kinetic modeling, Coal processing technology, Pyrolysis process, · Fluid Catalytic Cracking, liquefaction, Catalyst Synthesis, Chemical Process Technology
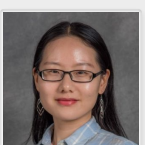
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### Meikang Han

Drexel University

United States

**Expertise:** 2D Materials

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### Mengsu Hu

Lawrence Berkeley National Laboratory

United States

**Expertise:** Applied Mechanics, Computational Modeling, Geomechanics and Rock Physics, Heat Transfer, Hydraulics, Reservoir Engineering
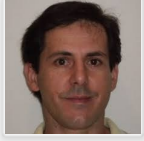
**Michele Mastroianni**

Università della Campania Luigi Vanvitelli

Italy

**Expertise:** Computer Engineering & Computer Science, Computer Networks & Protocols, Computer Systems, Internet of Things, Modeling and Simulation, Performance Analysis, Productivity Measurement, Evaluation, Planning, and Improvement, Risk Management

**Miguel Angelo Rodrigues Silvestre**

Universidade da Beira Interior

Portugal

**Expertise:** Aerospace, Engineering design / R&D, Fluid Mechanics

**Mirko Mazza**

Università della Calabria

Italy

**Expertise:** Seismic, Civil Engineering, Computational Modeling, Structural Engineering

**Mohammad Vahedi**

Saveh Branch, Islamic Azad University

Iran

**Expertise:** Algorithms, Analytical Methods in Facility Location and Layout, Applied Mechanics, Biomechanics/Orthopaedic Engineering, Biomedical Devices/Surgical Specialisms, Biomedical Effects of Electric and Magnetic Fields, Engineering R&D, Engineering Mechanics, Failure/Strain/Stress/Fatigue Analysis, Fluid Mechanics, Manufacturing
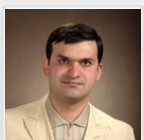
**Mohammad Dehghany Dahaj**

Sharif University of Technology

Iran

**Expertise:** Continuum Mechanics, Finite Element Methods

**Mojtaba Ahmadieh Khanesar**

University of Nottingham

United Kingdom

**Expertise:** Aerospace, Artificial Intelligence and Expert Systems in Control, Industrial Robots, Robot Arms, Dynamics and Control, Robotics, Space Dynamics
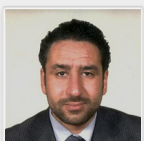
**Mónica Calero**

University of Granada

Spain

**Expertise:** Heat Transfer, Power/Energy, Renewable Energy and Distributed Generation, Waste/Pollution/Environment, Waste Treatment and Environmental Impact of Chemical Processes
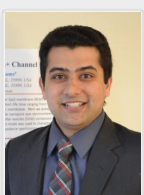
**Mounir Naili**

Laurentian University

Canada

**Expertise:** -D Seismic, Analytical Methods in Facility Location and Layout, Applied Mechanics, Civil/offshore/ water engineering, Civil Engineering Materials, Computer Engineering & Computer Science, Construction Engineering, Geomechanics and Rock Physics, Geotechnical Engineering, Natural Hazards, Rehabilitation engineering

**Muhammad Shuja Khan**

The University of Utah

United States

**Expertise:** Chemistry, Advanced Carbon and Bio-based Materials, Advanced Energy Materials, Nanomaterials and Applications, Biomechanics / orthopedic engineering, Biomedical Devices, Electric Drives, Electronics, Medical imaging/ informatics, Renewable Energy and Distributed Generation, Biotechnology, Condensed Matter Physics, Electrochemistry, Theoretical Physics
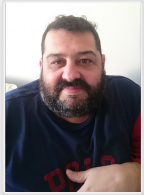
**Muhammad Awais Javed**

Swinburne University of Technology

Australia

**Expertise:** Engineering, Materials Production, Biochemistry, Biotechnology, Corrosion Science, Materials Science

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**N P Avdelidis**

Universite Laval

Canada

**Expertise:** Aerospace, Imaging/image processing, Non Destructive Testing (NDT), Structure and Materials, Materials Science

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**Nader Maleki Moghaddam**

Amir Kabir University of Technology (Tehran Polytechnic University)

Iran

**Expertise:** Computational Modeling, Numerical Simulations, Power/Energy, Nuclear and Radiation Physics

---

**Nan Yao**

Princeton University

United States

**Expertise:** Materials Science, Nanophysics, Natural Products, Solid State Physics, Surface Science, X-Ray Crystallography

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**Nikolai Rulkov**

University of California, San Diego

United States

**Expertise:** Applied Math, Nonlinear Dynamics, Non-Linear System Theory, Biomedical devices/ surgical specialisms, Biometrics, Electrical / electronic engineering, Modeling and Simulation, Robotics, Signal Processing, DSP, Synchronisation

---

**Nirosh Dilruk Jayaweera**

University of Moratuwa

Sri Lanka

**Expertise:** Aerospace, Automobile Engineering/Vehicles, Engineering Design / R&D, Industrial Robots, Manufacturing, Metrology/measurement systems
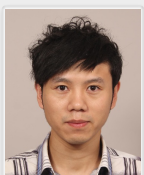
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**Paolo Minetola**

Politecnico di Torino

Italy

**Expertise:** Manufacturing, Metrology/Measurement Systems, Polymers and Composites, Process Mechanical Engineering, Production/Tools

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**Peng Lu**

The Hong Kong Polytechnic University

China

**Expertise:** Adaptive Control, Computer Vision, Control systems, Optimal Control, Robot Arms Dynamics and Control

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**Rajamohan Ganesan**

Concordia University

Canada

**Expertise:** Aerospace Engineering, Acoustics/vibration/ultrasound, Applied Mechanics, Computational Modeling, Engineering Mechanics, Engineering Probabilistic Design, Failure/strain/stress/fatigue analysis, Mechanical components, Mechanical Engineering, Modeling and Simulation, Nanomaterials/nanostructures, Polymers and Composites, Stochastic Simulation, Systems Reliability/Maintainability

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**Ramesh Rayudu**

Victoria University of Wellington

New Zealand

**Expertise:** Artificial Intelligence, Soft Computing, Computational Modeling, Data Mining, Diagnostics, Energy Conservation and Electrical Safety, Modeling

and Simulation, Power Electronics, Power System Analysis and Modeling, Power System Reliability, Power Systems Control and Distribution, Renewable Energy and Distributed Generation

**Ratnasamy Muniandy**

Universiti Putra Malaysia

Malaysia

**Expertise:** Advanced Carbon and Bio-based Materials, Advanced Functional Materials, Civil Engineering, Civil Engineering Materials, Highway Engineering, Pavement Design, Repair and Rehabilitation of Structures, Transportation Engineering, Waste/Pollution/Environment

**Raya Horesh**

IBM

United States

**Expertise:** Algorithms, Artificial Intelligence, Computational Modeling, Imaging / image processing, Modeling and Simulation, Neural Network, Optimal Control

**Renata Archetti**

University of Bologna

Italy

**Expertise:** Civil / Offshore / Water Engineering, Fluid Mechanics, Hydraulics, Renewable Energy and Distributed Generation, Reservoir Fluids

**Reza Malekimoghadam**

Politecnico di Torino

Italy

**Expertise:** Advanced Polymers, Novel Carbon-Based Materials, Novel Nanomaterials and Applications, Engineering Mechanics, Failure/strain/ stress/ fatigue analysis, Materials technology/engineering, Mechanical Engineering, Modeling/simulation, Structural Engineering, Structure and Materials
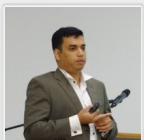
**S. Ali Faghidian**

Islamic Azad University, Science and Research Branch

Iran

**Expertise:** Applied Mechanics, Nanomaterials/Nanostructures, Nanophysics

**Saad Kashem**

Qatar Armed Forces – Academic Bridge Program Qatar Foundation, Doha, Qatar

Qatar

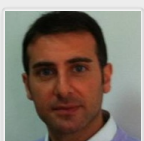**Expertise:** Robotics, Adaptive Control, Artificial Intelligence, Mechanisms Design/Analysis

**Salvatore Brischetto**

Politecnico di Torino

Italy

**Expertise:** Aerospace, Computational Modeling, Manufacturing, Polymers and Composites, Structural Engineering, Structure and Materials

**Salvatore Strano**

University of Naples Federico II

Italy

**Expertise:** Acoustics/Vibration/Ultrasound, Adaptive Control, Adaptive Filtering, Applied Mechanics, Automobile Engineering, Computer Vision, Computing Methodologies and Applications, Control Systems, Industrial Automation, Industrial Robots, Mechanical Engineering, Modelling and Simulation, Modelling and System Identification, Numerical Simulations, Robotics, Signal Processing

**Samir Lahouar**

ENIM

Tunisia

**Expertise:** Applied Mechanics, Control systems, Dynamic Programming, Industrial Robots, Robotics

**Samir Khatir**

Ghent University

Belgium

**Expertise:** Acoustics/vibration/ultrasound, Algorithms, Applied mechanics, Artificial Intelligence, Civil Engineering Materials, Computer Engineering & Computer Science, Computer Networking, Concrete Durability, Control Systems, Diagnostics, Dynamic Programming, Engineering R&D, Engineering Mechanics, Mechanical Engineering, Structural Engineering, Structure and Materials, Tribology

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**Sandeep Kumar**

Queen University belfast

United Kingdom

**Expertise:** Aerospace, Advanced Carbon and Bio-based Materials, Advanced Energy Materials, Advanced Functional Materials, Advanced Polymers, Novel Composites and Applications, Novel Nanomaterials and Applications, Materials technology/engineering, Materials Properties

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**Sandro Moos**

Politecnico di Torino

Italy

**Expertise:** Applied Mechanics, Artificial Intelligence, Biomechanics/Orthopedic Engineering, Biomedical Devices/Surgical Specialisms, Biometrics, Computer Engineering & Computer Science, Human Factor Engineering, Internet of Things, Mechanical Components, Mechanisms Design/Analysis, Medical Imaging/Informatics, Metrology/Measurement Systems

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**Sankar Prasad Bag**

Zhejiang University

China

**Expertise:** Advanced Energy Materials, Advanced Functional Materials, Novel Nanomaterials and Applications, Electronics, Micro/Meso/Nano Technology, Solid State Physics, X-Ray Crystallography

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**Santosh K. Misra**

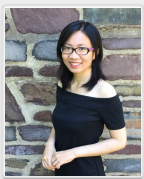University of Illinois at Urbana Champaign

United States

**Expertise:** Advanced Carbon and Bio-based Materials, Advanced Functional Materials, Novel Carbon-Based Materials, Novel Composites and Applications, Novel Nanomaterials and Applications, Biomedical devices/ surgical, Chemical Engineering, Nanomaterials / nanostructures, Waste Treatment and Environmental impact of Chemical processes, Biological Sciences, Bioorganic Chemistry, Materials Science, Nanochemistry, Surface Chemistry, Surface Science

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**Selim Sivrioglu**

Gebze Technical University

Turkey

**Expertise:** Adaptive Control, Applied Mechanics, Automobile engineering/vehicles, Control systems, Engineering Mechanics, Linear Systems, Mechanical Engineering, Modeling and Simulation, Optimal Control, Magnetic bearings, Superconductor bearings, Active vibration control

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**Shuran Song**

Princeton

United States

**Expertise:** Artificial Intelligence, Computer Vision, Computer Science

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**Siby Samuel**

University of Massachusetts Amherst

United States

**Expertise:** Automobile Engineering / Vehicles, Human Factor Engineering, Modelling and Simulation, Transportation Engineering
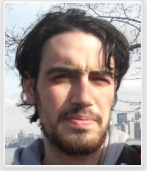
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**Stefano Valvano**

Kore University of Enna

Italy

**Expertise:** Aerospace, Acoustics/vibration/ ultrasound, Civil Engineering Materials, Computational Modeling, Engineering Mechanics,

Failure/strain/stress/fatigue analysis, Heat Transfer, Human Factor Engineering, Materials technology/engineering, Materials: properties, Mechanical components, Mechanical Engineering, Modeling and Simulation, Numerical Simulations, Polymers and Composites, Structural Engineering, Structure and Materials, Thermal engineering/ systems

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### Stefano Mariani

University of Modena and Reggio Emilia

Italy

**Expertise:** Artificial Intelligence, Computer Engineering & Computer Science, Computer Systems, Computing Methodologies and Applications, Internet of Things, Large Scale and Hierarchical Systems, Modeling and Simulation, Software Engineering, Systems Engineering

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### Sudip Chakraborty

University of Calabria

Italy

**Expertise:** Advanced Carbon and Bio-based Materials, Advanced Energy Materials, Advanced Functional Materials, Novel Composites and Applications, Novel Nanomaterials and Applications, Chemical Engineering, Nanomaterials/Nanostructures, Neural Network, Polymers and Composites

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### Sunl Chintalapati

Florida Institute of Technology

United States

**Expertise:** Aerospace, Computational Modeling, Fluid Mechanics, Heat Transfer, Mechanical Engineering, Modeling and Simulation

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### Tullio Facchinetti

University of Pavia

Italy

**Expertise:** Embedded Systems, Industrial Automation, Real-Time Computer Systems, Robotics, Scheduling, Energy Efficiency, Load Management
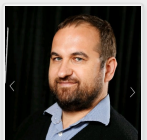
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### Vagelis Plevris

OsloMet—Oslo Metropolitan University

Norway

**Expertise:** Engineering, Algorithms, Civil Engineering, Civil Engineering Materials, Construction Engineering, Engineering Mechanics, Engineering Probabilistic Design, Modeling and Simulation, Modeling and System Identification, Neural Network, Soft Computing, Structural Engineering, Structure and Materials
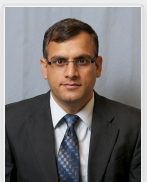
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### Victor Multanen

The Ohio State University

United States

**Expertise:** Electromagnetism and Optics, X-Ray Crystallography, Physical Chemistry, Chemistry, Novel Nanomaterials and Applications, Chemical Engineering, Civil / offshore/ water engineering, Civil Engineering Materials, Corrosion, Desalination, Electrochemical Engineering, Fluid devices/ systems, Fluid Mechanics, Nanomaterials/nanostructures, Speech/Audio/Image/Video and Image Processing, Tribology, Analytical Chemistry, Microbiology, Nanochemistry, Surface Chemistry, Surface Science

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### Vijay Kumar Thakur

Washington State University

United States

**Expertise:** Chemistry, Advanced Carbon and Bio-based Materials, Advanced Energy Materials, Advanced Functional Materials, Advanced Polymers, Novel Carbon-Based Materials, Novel Composites and Applications, Novel Nanomaterials and Applications, Biochemical Process Engineering, Chemical Engineering, Microwave Engineering
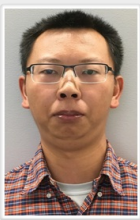
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### Wanchun Liu

The University of Sydney

Australia

**Expertise:** Channel Estimation, Cognitive Radio, Communications and Telecommunications Systems, Cyber-Physical System, Networked Control Systems, Backscatter Communication

**Xuegang Chen**

University of Nebraska-Lincoln

United States

**Expertise:** Materials Production, Materials technology/engineering, Measurements and Instrumentations, Nanomaterials/Nanostructures, Materials Science, Nanophysics, Physics, Solid State Physics, Surface Science, X-Ray Crystallography

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**Yangmin Li**

University of Macau

Macau

**Expertise:** Adaptive Control, Electro-thermochemical Modelling and Simulations, Industrial Robots, Mechanisms Design/Analysis, Multi-body Dynamics, Robot Arms Dynamics and Control, Robotics

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**Yannis Dimakopoulos**

University of Patras

Greece

**Expertise:** Biochemical Process Engineering, Biomechanics / orthopedic engineering, Cardiovascular system, Chemical Engineering, Computational Modeling, Drilling and Well Planning, Drilling Fluids, Fluid Mechanics, Gas Hydrates, Mass Transfer, Micro/meso/nano/technology, Modeling and Simulation, Numerical Simulations, Polymers and Composites, Tissue engineering/bioprocessing, Transport properties of concrete, Biological Sciences
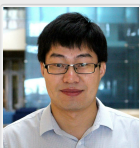
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**Yaojie Tu**

National University of Singapore

Singapore

**Expertise:** Chemical Engineering, Engines, Fluid Mechanics, Heat Transfer, Power/Energy, Thermal Engineering/Systems

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**Yong Wei Wang**

King Abdullah University of Science and Technology

Saudi Arabia

**Expertise:** Algorithms, Applied Mechanics, Civil Engineering, Computational Modeling, Computational Fracture Mechanics, Finite Element Method

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**Yuvaraja Visagathilagar**

RMIT University

Australia

**Expertise:** Acoustics / vibration/ ultrasound, Communications and Telecommunications Systems, Computer Science, Diagnostics, Electronics, Infrared and Optical Communications, Microstrip Devices and Antennas, Microwave Engineering, OFDM and Multicarrier Communications, Polymers and Composites, Wireless Communication, Biotechnology, Electromagnetism and Optics

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**Zehong Jimmy Cao**

University of Technology Sydney

Australia

**Expertise:** Computer Science Mathematics Medicine Engineering Neuroscience Materials Science

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**Zhe-Ming Lu**

Zhejiang University

China

**Expertise:** Artificial Intelligence, Image Compression and Coding, Image Processing and Pattern Recognition in Automation, Information Security

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