



PROCEEDINGS OF THE 4TH WORLD CONGRESS ON CIVIL, STRUCTURAL, AND ENVIRONMENTAL ENGINEERING (CSEE'19)

APRIL 7 - 9, 2019 | ROME, ITALY

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WELCOME MESSAGE FROM THE CONFERENCE CHAIR

On behalf of the International Academy of Science, Engineering and Technology (International ASET Inc.), the organizing committee would like to welcome you to the 4th World Congress on Civil, Structural, and Environmental Engineering (CSEE'19).

CSEE is aimed to become one of the leading international annual congresses in the fields of civil, structural, and environmental engineering. This congress will provide excellent opportunities to scientists, researchers, industrial experts, and university students to present their research achievements and to develop new collaborations and partnerships with experts in the field.

While each conference consists of an individual and separate theme, the 3 conferences share considerable overlap, which prompted the organization of this congress. The goal of this undertaking is to bring together experts in each of the specialized fields, and at the same time allow for cross pollinations and sharing of ideas from the other closely related research areas.

We thank you for your participation and contribution to the 4th World Congress on Civil, Structural, and Environmental Engineering (CSEE'19). We wish you a very successful and enjoyable experience.

Dr. Hany El Naggar

*Congress Chair and Proceedings Editor
CSEE'19*

Dr. Mohamed Shahin

*Congress Co-Chair and Proceedings Editor
CSEE'19*

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ABOUT CSEE'19

CSEE is aimed to become one of the leading international annual congresses in the fields of civil, structural, and environmental engineering. This congress will provide excellent opportunities to the scientists, researchers, industrial engineers, and university students to present their research achievements and to develop new collaborations and partnerships with experts in the field.

There are 3 conferences included in the CSEE Congress:

ICGRE'19 - 4th International Conference on Geotechnical Research and Engineering

ICSECT'19 - 4th International conference on Structural Engineering and Concrete Technology

ICEPTP'19 - 4th International Conference on Environmental Pollution, Treatment and Protection

While each conference consists of an individual and separate theme, the 3 conferences share considerable overlap, which prompted the organization of this congress. The goal of this undertaking is to bring together experts in each of the specialized fields, and at the same time allow for cross pollinations and sharing of ideas from the other closely related research areas.

CSEE is an acronym for **C**ivil, **S**tructural, and **E**nvironmental Engineering.

The proceedings is published in Ottawa, Canada.

All papers were peer-reviewed

The congress proceedings is published under an ISSN and ISBN number

Each paper is assigned a unique DOI number by [Crossref](#)

The conference proceedings is indexed by [Scopus](#) and [Google Scholar](#)

The proceedings is permanently archived in [Portico](#) (one of the largest community-supported digital archives in the world)

[Google Scholar](#)

[Scopus](#)

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SCIENTIFIC COMMITTEE

We would like to thank the following for accepting to act as a member of the Scientific Committee for the CSEE'19 Congress:

Scientific Committee Members for ICGRE'19

- **Dr. Sayed Ahmed**, Ain Shams University, Egypt
- **Dr. Djamalddine Boumezerane**, Norwegian University of Science and Technology NTNU, Norway
- **Dr. Rafaela Cardoso**, Lisbon Technical University, Portugal
- **Dr. Rong-Her Chen**, NTU, Taiwan
- **Dr. Safiye Feyza Çinicioglu**, Istanbul University, Turkey
- **Dr. Johan Clausen**, Aalborg University, Denmark
- **Dr. Meckkey El Sharnouby**, Atlantic Industries Limited, Canada
- **Dr. Johann Facciorusso**, University of Florence, Italy
- **Dr. Ahmed Fahmy** 30 Forensic Engineering, Canada
- **Dr. Rajeshwar Goodary**, Université des Mascareignes, Mauritius
- **Dr. Chu Jian**, NTU, Singapore
- **Dr. Stefan Jung**, Dr. Jung + Lang Ingenieure GmbH, Germany
- **Dr. Antonio Miglio**, Hydraulic and Pipeline Consultant Engineer, Italy
- **Dr. Ondra Sracek**, Palacky University in Olomouc, Czech Republic
- **Dr. Roger Tilley**, University of California Santa Cruz, USA
- **Dr. Megan Walske**, Curtin University, Australia

SCIENTIFIC COMMITTEE

Scientific Committee Members for ICSECT'19

- **Dr. Oscar Victor Jr. Antonio**, University of the Philippines, Philippines
- **Dr. Abolhassan Astaneh-Asl**, University of California, Berkeley, USA
- **Dr. Zdenek P. Bazant**, Northwestern University, USA
- **Dr. Roberto Crocetti**, Lund University, Sweden
- **Dr. Mohamed Elchalakani**, University of Western Australia, Australia
- **Dr. Christopher Higgins**, Oregon State University, USA
- **Dr. Hong Hao**, Curtin University Australia, Australia
- **Dr. Ali Karrech**, University of Western Australia, Australia
- **Dr. Thomas Keller**, Ecole Polytechnique Federale de Lausanne, Switzerland
- **Dr. Venkatesh Kodur**, Michigan State University, USA
- **Dr. M. Shamim Miah**, Technische Universität Dresden — TU Dresden, Germany
- **Dr. Alan O'Connor**, Trinity College Dublin, Ireland
- **Dr. Ahmet Türer**, Middle East Technical University, Turkey
- **Dr. Ben Young**, University of Hong Kong, China
- **Dr. Xue Zhang**, Dalian University of Technology, China

SCIENTIFIC COMMITTEE

Scientific Committee Members for ICEPTP'19

- **Dr. Mohamed Abouleish** , American University Of Sharjah, United Arab Emirates
- **Dr. Elena Maria Alvareda Migliaro**, Universidad de la Republica, Uruguay
- **Dr. James Ball**, University of Technology Sydney, Australia
- **Dr. K. van Breugel**, Delft University of Technology, Netherlands
- **Dr. John Bridgeman**, University of Bradford, UK
- **Dr. James Clarke**, Vanderbilt University, USA
- **Dr. Mervat El-Hoz**, University of Balamand, Lebanon
- **Dr. Paolo Gardoni**, University of Illinois Urbana-Champaign, USA
- **Dr. Anas Ghadouani**, University of Western Australia
- **Dr. Mohamed Hegazy**, The British University in Egypt, Egypt
- **Dr. Hu Jiangyong**, National University of Singapore, Singapore
- **Dr. Bernard H. Kueper**, Queen's University, Canada
- **Dr. Elçin Kentel**, Middle East Technical University, Turkey
- **Dr. Stuart Khan**, University of New South Wales, Australia
- **Dr. Angélique Leonard**, University of Liège, Belgium
- **Dr. Andrea Szabó Nagy**, Széchenyi István University, Hungary
- **Dr. Meysam Majidi Nezhad**, Sapienza University of Rome, Italy
- **Dr. Hüseyin Selçuk**, Istanbul University, Turkey
- **Dr. Grzegorz Sierpiński**, Silesian University of Technology, Poland
- **Dr. Szabolcs Szilveszter**, Sapientia University, Romania
- **Dr. Chuyang Y. Tang**, University of Hong Kong, Hong Kong
- **Dr. Pavel Tlustoš**, Czech University of Life Sciences Prague, Czech Republic
- **Dr. Keisuke Watanabe**, Tokai University, Japan

PLENARY AND KEYNOTE SPEAKERS

The keynote information for the 4th World Congress on Civil, Structural, and Environmental Engineering (CSEE'19) is as follows:



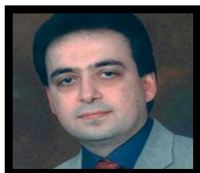
Prof. Mark Jaksa

University of Adelaide,
Australia
ICGRE'19 Keynote Speaker



Dr. Antonio Miglio

Hydraulic and Pipeline
Consultant Engineer, Italy
ICGRE'19 Keynote Speaker



Dr. Bassam Izzuddin

Imperial College of London, UK
ICSECT'19 Keynote Speaker



Prof. Rudolf Seracino

North Carolina State University,
USA
ICSECT'19 Keynote Speaker



Dr. Davide Astiaso Garcia

Sapienza University of Rome, Italy
ICEPTP'19 Keynote Speaker

KEYNOTE SPEAKERS



Titles: Quantifying the Effect of Rolling Dynamic Compaction

Prof. Mark Jaksa, University of Adelaide, Australia

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Mark Jaksa is Professor of Geotechnical Engineering in the School of Civil, Environmental and Mining Engineering at the University of Adelaide, Australia. He has been an academic for more than 30 years, before which, he spent 4 years practicing as a consulting geotechnical and civil engineer in Adelaide and Canberra in Australia. He has a Bachelor of Engineering (Honours) degree in Civil Engineering and a PhD, both from the University of Adelaide.

He has published more than 170 papers, chapters and reports on various aspects of geotechnical engineering research and teaching. His primary areas of expertise are in the characterisation of the spatial variability of soils, probabilistic analyses, artificial intelligence, ground improvement, unsaturated soils and enhancing learning in geotechnical engineering. He has received several awards recognising his contributions to learning and teaching in geotechnical engineering.



Titles: Reducing Loads on Buried Pipes by Lightweight Backfilling Materials

Dr. Antonio Miglio, Hydraulic and Pipeline Consultant Engineer, Italy

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Dr. Miglio is a hydraulic and pipeline consultant engineer, and currently he is the research manager and an instructor at the Center for Underground Infrastructure Research and Education (CUIRE), The University of Texas at Arlington, TX, USA. He earned his M.Sc. in Civil Engineering cum laude in 1999 and his Ph.D. in Hydraulic Engineering in 2005, both from the Università della Calabria, Italy. He was a Postdoctoral Research Fellow at the Department of Soil Conservation, Università della Calabria, Italy.

KEYNOTE SPEAKERS



Titles: Effective High-Fidelity Nonlinear Analysis of Large-Scale Structure using Parallel Domain Decomposition

Dr. Bassam Izzuddin, Imperial College of London, UK

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Bassam Izzuddin is Professor of Computational Structural Mechanics and heads the CSM group at Imperial College London. Since joining Imperial in 1990, he has developed advanced nonlinear analysis methods for structures subject to extreme loading, and he has engaged in national/international collaborations with industry and fellow academics on applied structural engineering research utilising his program ADAPTIC. Besides major developments in detailed modelling, he has also developed a range of simplified analysis methods, which are currently being applied in design practice for offshore and building structures. His publication record exceeds 250 papers in leading international journals and conferences.



Titles: Extending the Service Life of Prestressed Concrete Cored Slab Bridge Superstructures with Prestressed Mechanically-Fastened Fiber-Reinforced Polymer Plates

Prof. Rudolf Seracino, North Carolina State University, USA

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Dr. Rudolf (Rudi) Seracino is a Professor of Structural Engineering and an Associate Head of the Department of Civil, Construction, and Environmental Engineering at North Carolina State University, USA. He earned his B.A.Sc. (Hons) and M.A.Sc. in Civil Engineering from the University of Toronto, Canada, and his Ph.D. in Civil Engineering from the University of Adelaide, Australia. His primary research interest over the past 20 years is related to the use of fiber-reinforced polymer (FRP) composites in critical civil infrastructure. He is the Director of the NSF Industry/University Cooperative Research Center for Integration of Composites into Infrastructure (CICI) at NC State University, and an elected Fellow of the International Institute for FRP in Construction (IIFC). He is on the editorial board of the ASCE Journal of Composites for Construction and is a voting member of ACI Committee 440 on FRP Reinforcement.

KEYNOTE SPEAKERS



Titles: Smart Energy Systems for Increasing the Energy Independence of Small Islands: Integrating Renewable Energies, Storage Systems and Sustainable Mobility

Dr. Martin Romantschuk, University of Helsinki, Finland

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Davide Astiaso Garcia, PhD in Thermal Science, Energy Technology and Building Physics in 2011, is Assistant Professor of Thermal Sciences, Energy Technology and Building Physics at the Department of Astronautical, Electrical and Energy Engineering (DIAEE) of the Sapienza University of Rome.

In 2017 he got the National Academic Qualification as Associate Professor in Thermal Science, Energy Technology and Building Physics (09C2).

Furthermore, he is the Secretary General of the Italian Wind Energy Association (ANEV), and the Secretary General of Coordinamento FREE (Coordination of Renewable Sources and Energy Efficiency).

His research activities at DIAEE started in 2006. He is currently involved in two H2020 projects GIFT - Geographical Islands FlexibiliTy - H2020-LC-SC3-2018-ES-SCC (BUILDING A LOW-CARBON, CLIMATE RESILIENT FUTURE: SECURE, CLEAN AND EFFICIENT ENERGY) Type of action: IA) and ODYSSEA (Operating a network of integrated observatory systems in the Mediterranean Sea; Type of Action: RIA), one EEA funded project (Youth Employment Network for Energy Sustainability in Islands – YENESIS and one Erasmus+ project (SIMULWIND - Maintenance simulator for the sustainability of European wind farms).

LIST OF PAPERS

The following papers were presented at the 4th World Congress on Civil, Structural, and Environmental Engineering.

GEOTECHNICAL INFRASTRUCTURE

Experimental Study of Load Settlement Behaviour of Ring Footings for Different Internal Diameter Keeping the Contact Surface Area Same

Author: Hitesh Rupani, Manas Bhoi

Effect of Different Shape of Footing on its Load-Settlement Behaviour (Circular, Square and Rectangular)

Authors: Manav Patel, Manas Bhoi

The Effectiveness of Dispersed Reinforcement of Soil-Cements

Authors: Krystian Brasse, Tomasz Tracz, Tomasz Zdeb

Experimental Investigation of the Effect of Geogrid Reinforced Backfill Compaction on Buried Pipelines Response

Author: Emran Alotaibi, Maher Omar, Mohamed G. Arab, Abdallah Shanableh, Waleed Zeiada, Ali Tahmaz

Flow Structures Around a Circular Bridge Pier with a Submerged Prism at Upstream

Author: Mohsen Ranjbar-Zahedani, Alireza Keshavarzi, Hadi Khabbaz, James Ball

Factors Affecting Erosion in Unpaved Roads

Author: Esdras Ngezahayo, Gurmel S. Ghataora, Michael P.N. Burrow

LIST OF PAPERS

GEOTECHNICAL STRUCTURE

Study of Bearing Capacity and Settlement Behaviour of Solid Circular and Hollow Circular Footings on Granular Soil

Authors: Parth Patel, Manas Bhoi

Deformation Behaviour of Tunnels under Different Loading Conditions: State of Art

Authors: Parvesh Kumar, Amit Shrivastava

Behaviour of Disconnected and Connected Piled Raft Foundations Subjected to Compressive Load

Authors: Kajal Tarenia, Nihar Ranjan Patra

Supporting Effects of Base Layers on the Lateral Pile Performance

Author: Dr.Ing. Jung Stefan

Analysis of Laterally Loaded Piled Raft Foundation

Author: Stefano Stacul, Nunziante Squeglia

Ground Deformation Propagation Above a TBM tunnel in Canada – A Case Study

Author: Ahmed Fahmy, Mrinmoy Kanungo

Efficiency of biocementation as rock joints sealing technique evaluated through permeability changes

Author: Emad Arbabzadeh, Rafaela Cardoso

Using Alkali-Activated Binders to Improve UAE Dune Sand

Author: Mohamed Arab, M Talha Junaid, Maher Omar, Waleed Zeiada, Abdallah Shanableh, Rajaa Rammal

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SOIL AND ROCK MECHANICS AND CHARACTERIZATION

The Consolidation Properties of Natural Fibre Clay Composite

Authors: Muneerah Jeludin, Nurafiqah Suffri, Suaidah Rahim

Strength Characteristics of Clay Stabilized with Fly-ash Based Geopolymer Incorporating Granulated Slag

Authors: Hayder H. Abdullah, Mohamed A. Shahin

Soil Stabilization using Calcium Carbonate Precipitation via Urea Hydrolysis

Authors: Mohamed G. Arab

Effect of Water Content, Void Ratio and Clay Content on Sand P-Wave Velocity

Authors: Magdi M. El-Emam, Zahid H. Khan, Mohammad O. Amer

Expansive Residual Soils and Their Possible Stabilisation by Soil Mixing

Authors: Rajeshwar Goodary, Gisele Lecomte, Miraniaina Adriamalala, Anoop Aujayeb

A Review on Stone Columns used for Ground Improvement of Soft Soil

Authors: Istuti Singh, Anil Kumar Sahu

Analysis of Fault Strike Based on Multi-point In-situ Stress Data in Jinchuan Mining Area

Authors: Yiteng Wang, Chuanying Wang, Zengqiang Han, Yuqun Huang

An Experimental Study on Shear Strength Behavior of Soils Under Low Confining Pressure

Authors: Eren Balaban, Aleš Šmejda, Mehmet İnanç Onur

LIST OF PAPERS

SOIL AND ROCK MECHANICS AND CHARACTERIZATION

Study of Bacteria Growth for the Development of Bio-Mediated Soil Improvement Methods

Authors: Javier Rodriguez Corral, Helen Mitrani, Meng Zhang, Martyn Dade-Robertson

Design of a Freeze-Thaw System for Laboratory Soil Testing

Authors: Maha H. Nsaif, Charles Heron, Alec M. Marshall

One Phase Soil Bio-Cementation with EICP-Soil Mixing

Authors: Haider Rohy, Mohamed Arab, Waleed Zeiada, Maher Omar, Abdullah Almajed, Ali Tahmaz

Deformation Characteristics of Cement Treated Pasak Clay and Bangkok Clay with Different Stress Path

Authors: Watthana Makararotrit, Sompote Youwai, Patchara Rodpol

Study of the Rainfall Infiltration Effect and Soil Strength Variation on Unsaturated Laterite Terraces

Authors: Shao-Hung Chung

Study on Collapse Sequence and Critical Rainfall at Nantou 89th County Road in Taiwan

Authors: Sung-Chi Hsu, Pei-Ju Hu, Pei-Hsun Tsai

LIST OF PAPERS

Transportation Geotechnics, Engineering and Technology

Using Intact Rock Brittleness for Assessing TBM Penetration

Authors: Saffet Yagiz, Aitolkyn Yazitova

Compaction and Strength Properties of Road Subbase Infused with a Latex Copolymer

Authors: Noor Hadijah Abdul Hadi, Soon Jiann Tan, El-Said Mamdouh Mahmoud Zahran, Muneerah Jeludin, Tan Eng Hie

Effect of Soaking Period of Clay on its California Bearing Ratio Value

Authors: Robert Nini

Integrating BIM Models with 3D Scenery from UAV-Assisted Survey on Embankment

Authors: Sung-Chi Hsu, Hsin-Yu Hu, Pei-Hsun Tsai

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Design and Modelling

A Comparison Study: Estimating the Axial Micropiles Capacity Using Current Practices

Authors: Ahmed Elgamal

Using Micropile to Retrofit of Tilting Building Rested on Alluvium Deposits: Case Study of Inclined Eleven Stories Building at Egyptian Delta

Authors: Ahmed Elgamal

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CONSTRUCTION MATERIALS

Lessons Learned from the Construction of Kelly Lake TDA Embankment

Authors: Hany El Naggar, Adam Marlin, Darren Dennis

Bond Behavior of Fabric-Reinforced Geopolymeric Matrix System – A Pilot Study

Authors: Feras Abu Obaida, Tamer El-Maaddawy, Hilal El-Hassan

Influence of Recycled Concrete Aggregates and Slag on the Performance of Pervious Concrete

Authors: Hilal El-Hassan, Peiman Kianmehr

Effect of GGBS and Nano Silica on the Durability Properties of Ternary Concrete

Authors: Kaushal Vora, Niragi Dave, Manank Shah, Dhruv Shah

Physico-Mechanical Properties of Concrete with Industrial Waste - A Case Study

Authors: Gayana B C, Shashanka M, Avinash N Rao and Ram Chandar K

Guideline for Backfill Material Improvement for Water Supply Pipeline Construction on Bangkok Clay, Thailand

Authors: Sideth Prum, Nalinee Jumnongpol, Chutima Eamchotchawalit, Pisit Kantiwattanakul, Vanee Sooksatra, Thanatip Jarearnsiri, and Somsak Passananon

Effect of Construction Minor Defects on the Ductility of Reinforced Concrete Drilled Shafts

Authors: Sami W. Tabsh

A Plane Equivalent Micro-truss Element for Reinforced Concrete Structures

Authors: Zhihang Xue, Eddie Siu-shu Lam

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CONSTRUCTION MATERIALS

Predicting Flexural Capacity of Concrete Beams Reinforced with GFRP Bars and Strengthened with CFRP Sheets

Authors: M. Talha Junaid, Abdalla Elbana, Salah Altoubat

Effect of Different Parameters of U-Concrete Jacketing on Behavior of Strengthened Beam

Authors: Eng. Bandar Fawaz Al-Harbi, Dr. Gamal A. Al-Saadi, Dr. Ahmed F. Elragi

Evaluation of Line of Balance Method In View Of Hidden Idle Times and Their Costs (Case Study: Housing Units in Iraq)

Authors: Aqeel Abdulhasan Hussein, Ali Majdi

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New Technologies in Structural Design and Construction

Analysis of Rectangular Plates Based on the Hydrostatic Point Phenomenon

Authors: Mohammad Alhassan, Rajai Al-Rousan, Moheldeen Hejazi

Damping Matrix Identification for Structural Health Monitoring Considering Sensitivity of Initial Unknown Covariance

Authors: Mohammad S. Miah, Michael Kaliske, Md Jihad Miah

3D Model Generation of CFS Members from Surface Data

Authors: Burcu Guldur Erkal

A Novel Steel-Concrete Composite Flooring System: Development and Preliminary Experimental Investigation

Authors: Danilo Di Giacinto, Daniele Losanno, Eugenio Ruocco, Luigi Grassia

Effect of Corrugation Angle in Strength of Trapezoidal Corrugated Web Steel Built-up Beam

Authors: Dhruv Narola, Anuj Meena, Kanika Meena, Apurva Dave

Contribution of Prefabricated Constructions to Reduce the Risk of Project Management

Authors: Ahmed Mohammed Teen Ahmed, Ana Maria Gramescu

Suspension Hammering Tester for Concrete Walls

Authors: Saeko Tokuomi, Kazuya Mori

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New Technologies in Structural Design and Construction

A New Remote Non-destructive Testing Method for Concrete Structures Using Water Jet Impact

Authors: Kazuya Mori, Saeko Tokuomi

A Comparative Study of Machine Learning Methods for Compressive Strength of Concrete

Authors: Priscila F. S. Silva, Gray F. Moita

Assessment of Hyper-Viscoelastic Seismic Isolator Behaviour Using Finite Element

Authors: Emran Alotaibi, Nadia Nassif, Rami AlSodi, Sara Ayman, Ibrahim Haj Fattouh

Identify the limit states of Hashazini dam by applying Incremental dynamic analysis

Authors: Ali Majdi, Alaa Jabbar Rahman

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Environmental Protection

Development of a GIS based Multicriteria Decision Support System for Organic Waste Management: Izmir Case Study

Authors: Sedat Yalcinkaya, Osman Sami Kirtiloglu

Controlling the blind expansion of dockless shared bicycles through travel demand identification and prediction

Authors: Jian Wang, Yuan Tian, Siqing Wang

Dynamic Management of Environmental Risk of Urban Traffic Exhaust Pollution Based on Taxi Trail Big Data

Authors: Haiming Cai, Jian Wang, Yunrui Sun

Implementation of Novel Numerical Approaches to Optimize the Efficiency of Toxic Gas Scrubbers

Authors: Alireza Eslamian, Chong Peng, Ernesto Monaco

Land Cover Classification by using Sentinel-2 Images: A case study in the city of Rome

Authors: M. Majidi Nezhad, A. Heydari, L. Fusilli, G. Laneve

Suitability of Microbes for Bio-modification of Geomaterial during MICP Process

Authors: Surabhi Jain, Dali Naidu Arnepalli

The Development of a Local Ground Motion Prediction Equation from Recorded Data

Authors: Lubna Obaid, Sama Alani, Maher Omar, Samer Barakat, Mohamed Arab, Moussa Leblouba, Abdallah Shanableh, Ali Tahmaz

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Environmental Protection

Eco-Friendly Processing of Sulfidic Polymetallic Concentrates Using Biohydrometallurgy

Authors: Maxim Muravyov, Natalya Fomchenko

A Sediment Detection Analysis with Multi Sensor Satellites: Caspian Sea and Persian Gulf case studies

Authors: M. Majidi Nezhad, D. Groppi, P. Marzialetti, G. Laneve

Improvement of Biowaste Composting Efficiency using *Sphingobacterium spiritivorum*

Authors: Marija Vuković Domanovac, Vedran Vučić, Dajana Kučić Grgić, Monika Šabić Runjavec, Marijana Vidaković, Martina Sudar, Bruno Zelić

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Water and Wastewater Pollution and Treatment

Synthesis and photochemical reactions of iron(II) doped copper ferrites as heterogeneous catalysts

Authors: Asfandiyar Khan, Zsolt Valicsek, Ottó Horváth

Selenium removal using a bacteria cultured reactor packed with alumimpregnated activated alumina

Authors: Yuxia Ji, Yi-tin Wang

Simultaneous Water Purification and Energy Production in a Microbial Desalination Cell

Authors: Abdelsalam Elawwad, Mostafa Ragab

A Framework for the Investigation of Biowaste Materials as Potential Adsorbents for Water Treatment

Authors: Haliemeh Sweidan, Mohamed Hamouda, Hilal El-Hassan, Munjed Maraqa

Machine Learning Application of Dissolved Oxygen Prediction in River Water Quality

Author: Eda Göz, Mehmet Yüceer, Erdal Karadurmuş

Monitoring pesticides residues in water resources of the Lake Naivasha catchment using passive sampling

Author: Yasser Abbasi, Chris M. Mannaerts

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Water and Wastewater Pollution and Treatment

Effects of pH and water matrix on photoinduced degradation of antibiotic cefdinir

Author: Sandra Babić, Davor Ljubas, Đurđica Ivanec Šipušić, Lidija Ćurković, Jasmina Beganović

Wastewater Treatment by Electrocoagulation: A comparative study using different anode materials

Author: Khaled Zaher, Abdelsalam Elawwad, Rana Nadeem

Performance of up-flow anaerobic sludge blanket followed by continuous-flow sequencing batch reactor

Author: Abdelsalam Elawwad, Mohamed Hazem, Hisham Abdel-Halim

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Health and Environment

Heavy Metal Pollution and Human Health Risk Assessment of Farmlands around Enyigba Lead-Zinc Mining Site, Ebonyi State, Nigeria

Authors: Nwogo Ajuka Obasi, Stella Eberechukwu Obasi, Emmanuel Nweze, Solomon Okechukwu Amadi, Chinyere Alope, Getrude Obinaju Aloh

Determination of Atmospheric PAHs Concentration by Using Honeybee and Passive Air Sampler

Authors: Emine Gurkan Ayyildiz, Mehmet Ferhat Sari, Mesut Ertan Gunes, Yucel Tasdemir, Fatma Esen

Pesticide Residues in Botanicals Used In Feed Additives: Focusing On Wild vs. Cultivable Plants

Authors: Fagnon Mahougnon Siméon, Araujo Coralie, Leguay Clara, Hurtaud Johann, Kerros Sylvain

SPONSORS

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JOURNAL PUBLICATION

Selected articles from the congress will be published in one of the following journals after a secondary review process:

IJCI - International Journal of Civil Infrastructure

IJEPR - Journal of Environmental Pollution and Remediation

The publication fee will be waived for papers that win the best paper award. Other attendees will receive a 25% discount towards the publication fee of the journal.

These journals have adopted to the open-access model, meaning all free access to the journal's articles and content with no need for subscription. This ensures larger audience and therefore higher citations.

Users are allowed to read, download, copy, distribute, print, search, or link to the full texts of the articles in this journal without asking prior permission from the publisher or the author. This is in accordance with the BOAI definition of open access.

All published papers of IJCI and IJEPR will be submitted to Google Scholar, Microsoft Academic Search, Open J-Gate, Mendeley, Index Copernicus International, Academic Index, Mendeley, Primo Central, and Genomics JournalSeek for possible indexing. Additionally, they will be permanently archived in Portico (one of the largest community-supported digital archives in the world) and will be assigned unique DOIs.

ETHICS & MALPRACTICE

Publication Ethics and Publication Malpractice Statement

The following statement is mainly based on the [Code of Conduct and Best-Practice Guidelines for Journal Editors](#) (Committee on Publication Ethics, 2011).

Scientific Committee

Scientific Committee

Scientific committees consisting of experts in the fields are established. The committees oversee the peer-review and publication process. To see the scientific committee members, please follow the link below.

[Scientific Committee](#)

Equality and Decisions

One or more reviewer, scientific committee member, or chair, (internal or external), are responsible for evaluating the relevance of the submitted manuscripts to the proceedings, technical and scientific merit, originally, and impact. These evaluations are to be carried out regardless of ethnicity, religion, gender, sexual orientation, political beliefs, and institutions. Successive to peer-review, the Chair has full authority and is solely responsible for the published content and the process thereof.

Confidentiality

Scientific committee member(s) and publishing staff may not disclose manuscripts or their content, directly or indirectly, to anyone other than individuals invited to review the manuscript (whether they accept or not), other reviewers of the same publications, and publishing staff.

Conflicts of Interest

Scientific committee member(s) and publishing staff may not utilize the contents of submitted manuscripts whether accepted or rejected, directly or indirectly for their own research purposes without prior written consent by the authors.

ETHICS & MALPRACTICE

Reviewers

Contribution to Decisions

In order for final decisions to be made regarding acceptance or rejection of papers, we rely on peer-review. Peer-review is the process of experts in the field reading, understanding, and objectively commenting on submitted papers. Through peer-review, scholars give back to the academic and scientific community by helping the chair(s) make decisions regarding manuscripts.

Promptness

Reviewers should promptly notify the chair(s) if they are unable or unqualified to carry out their reviewing duties. Reviewers should do their best to provide the reviews to the chair(s) as promptly as possible, and within the designated time-frame.

Confidentiality

Reviewers must not share the contents of the manuscripts they receive for review, regardless of their decision to review or contents of the review, directly or indirectly, with anyone other than the person who has assigned the review.

Fairness

Reviewers should review manuscripts fairly and objectively, with supporting evidence or arguments, regardless of personal feelings or biases.

Thoroughness

Reviewers should thoroughly read, understand, and provide constructive feedback with the aim of improving the manuscript. Reviewers should aim to identify and report technical issues, irregularities, mistakes, missing citations, and similarity to other published work.

Conflicts of Interest

Invited reviewers should immediately inform the chair(s) in case of a conflict of interest based on competitive, collaborative, personal, family, and other relationships with the authors or people involved in the work.

ETHICS & MALPRACTICE

Authors

Authorship

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