PROGRAM BOOK

INTERNATIONAL CONFERENCE ON ENVIRONMENT, GREEN TECHNOLOGY AND DIGITAL SOCIETY

Virtual Conference by Konfrenzi
December 13, 2023
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## IMPRINT INFORMATION

<table>
<thead>
<tr>
<th><strong>Conference title</strong></th>
<th>The 1st International Conference on Environment, Green Technology and Digital Society 2023</th>
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<tr>
<td><strong>Abbreviated title</strong></td>
<td>INTERCONNECTS 2023</td>
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<tr>
<td><strong>Website</strong></td>
<td><a href="https://interconnects.unimma.ac.id/">https://interconnects.unimma.ac.id/</a></td>
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<tr>
<td><strong>Organizer</strong></td>
<td>Universitas Muhammadiyah Magelang</td>
</tr>
<tr>
<td><strong>Location</strong></td>
<td>Magelang, Indonesia (see <a href="https://interconnects.unimma.ac.id/">our map</a>)</td>
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<tr>
<td><strong>Postal Address</strong></td>
<td>Jl. Bambang Sugeng km.05 Mertoyudan Magelang, 56172</td>
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<tr>
<td><strong>Frequency</strong></td>
<td>Annual</td>
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<tr>
<td><strong>Conference date</strong></td>
<td>December 13, 2023</td>
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<tr>
<td><strong>Conference system</strong></td>
<td>Online</td>
</tr>
<tr>
<td><strong>Publication</strong></td>
<td>Electronic Proceedings</td>
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<tr>
<td><strong>Collaboration</strong></td>
<td>In Conjunction with 5\textsuperscript{th} Borobudur International Symposium 2023</td>
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BACKGROUND

The 1st INTERCONNECTS entitled “International Conference on Environment, Green Technology, and Digital Society” is a leading event planned annually to bring together experts, professionals, researchers, and policymakers from various fields to discuss and explore the common ground between green technology and digital society. The conference aims to encourage collaboration, knowledge sharing, and innovation to address pressing challenges related to sustainability, technological advances, and the digital transformation of society.

Sustainable development and technology’s role are becoming an ongoing discussion. Green technology focuses on developing and utilizing environmentally friendly and sustainable solutions to reduce the impact of human activities on the environment. It covers various sectors, including renewable energy, waste management, water conservation, sustainable transportation, and eco-friendly manufacturing processes. On the other hand, Industry 4.0 is characterized by integrating advanced technologies such as the Internet of Things (IoT), artificial intelligence (AI), big data analytics, robotics, and automation in industrial processes. Industry 4.0 revolutionizes manufacturing and production by enabling more efficient, flexible, and connected systems, increasing productivity and economic growth. Simultaneously, digital society encompasses the broader societal transformation driven by digital technology. This digital includes using digital tools, platforms, and networks that shape various aspects of our lives, including communication, commerce, governance, healthcare, education, and entertainment.

Recognizing the potential synergies between these domains, the 1st INTERCONNECTS in conjunction with The 5th Borobudur International Symposium 2023 seeks to explore how integrating green technology and digital society can contribute to sustainable development. The conference provides a platform for researchers, practitioners, and policymakers to present and discuss the latest research findings, innovative solutions, best practices, and policy frameworks.
SCOPE

Environment

1. Biodiversity Conservation
2. Climate Change
3. Environmental Policy and Governance
4. Environmental Education and Awareness
5. Pollution Control
6. Sustainable Agriculture
7. Sustainable Urbanization
8. Water Resource Management

Green Technology

1. Renewable Energy Sources
2. Energy Storage
3. Energy Efficiency
4. Smart Grids and Microgrids
5. Sustainable Transportation
6. Green Buildings
7. Waste Management and Recycling
8. Environmental Monitoring and Data Analytics

Digital Society

1. Smart city and smart infrastructure.
2. IoT and AI-based sustainability solutions.
3. Digital transformation for sustainable development.
4. Sustainable transportation and mobility solutions.
5. Data analysis and predictive modeling for environmental sustainability.
6. Policy Framework and regulatory approach for green technology and Industry 4.0.
7. Socio-economic impacts and challenges of digital transformation and sustainability.
KEYNOTE SPEAKERS

**Prof. Thomas Kivele, PhD**
Bio-energy; Alternative fuels; Solar energy; HVAC

The Nelson Mandela AIST
Tanzania

**Prof. Madiyah M. Saudi, PhD**
Malwares; Mobile Security; Machine Learning

Universiti Sains Islam Malaysia
Malaysia

**Prof. Hamit Solmaz, PhD**
Renewable energy technologies; Low-temperature combustion

Gazi University
Turkey

**Prof. Mustafa Mat Deris**
Distributed databases, Big data analytics, Soft set, Data mining

PP Muhammadiyah Indonesia
Indonesia

Organized by:
IMPORTANT DATES

- **30 Nov**: Abstract Submission
- **30 Nov**: Notification of Abstract Acceptance
- **6 Dec**: Payment Deadline
- **13 Dec**: Conference Day
- **2 Jan 2024**: Full Paper Submission Deadline
PROGRAM SCHEDULE

Wednesday, December 13, 2023

08.00 - 08.30 GMT+7 Preparation
08.30 – 09.00 GMT+7 Opening Ceremony
09.00 – 11.30 GMT+7 Main Session
11.30 – 12.00 GMT+7 Discussion
12.00 – 13.00 GMT+7 Break
13.00 – 15.00 GMT+7 Q&A Forum
15.00 – 16.00 GMT+7 Technical Clinic and Closing
COMMITTEE

Advisory Board

Dr. Lilik Andriyani, M.Sc.
Universitas Muhammadiyah Magelang, INDONESIA
Academic profile:

Mohammad Adam Jerusalem, S.T., S.H., M.T., Ph.D.
Majelis Diktilitbang PP Muhammadiyah, INDONESIA
Academic profile:

Dr. Heni Setyowati Esti Rahayu, M.Kes.
Universitas Muhammadiyah Magelang, INDONESIA
Academic profile:

Scientific Committee

Assoc. Prof. Yun Arifatul Fatimah, S.T., M.T., Ph.D.
Universitas Muhammadiyah Magelang, INDONESIA
Academic profile:

Prof. Tony Hadibarata, Ph.D.
Curtin University, MALAYSIA
Academic profile:

Assoc. Prof. Wahyu Caesarendra, Ph.D.
Universiti Brunei Darussalam, BRUNEI DARUSSALAM
Academic profile:

Prof. Asep Bayu Dani Nandiyanto., Ph.D.
Universitas Pendidikan Indonesia, INDONESIA
Academic profile:

Assoc. Prof. Dr. Aditya Kolakoti
Raghu Engineering College, INDIA
Academic profile:

Prof. Olusegun David Samuel, Ph.D.
Federal University of Petroleum Resourc-FUPRE, NIGERIA
Academic profile:

Organized by:
Assoc. Prof. Dr. Budi Waluyo, M.T.
Universitas Muhammadiyah Magelang, INDONESIA

Academic profile: 🧑‍🏫 📚
Dr. Eng. Muhammad Kunta Biddinika, S.T., M.Eng.
Universitas Ahmad Dahlan, INDONESIA

Academic profile: 🧑‍🏫 📚
Assoc. Prof. Marcin Noga, Ph.D.
Cracow University of Technology, POLAND

Academic profile: 🧑‍🏫 📚
Dr. Yusufu Abeid Chande Jande
The Nelson Mandela African Institution of Science and Technology, TANZANIA

Academic Profile: 🧑‍🏫 📚
Assoc. Prof. Dr. Mohamed Abdelgaied
Tanta University, EGYPT

Academic Profile: 🧑‍🏫 📚

Prof. Muhammad Tariq
Ontario Tech University, CANADA

Academic Profile: 🧑‍🏫 📚
Dr. Juan Zapata Mina
Universidad Tecnológica de Pereira, COLOMBIA

Academic Profile: 🧑‍🏫 📚
Dr. Esteban Zalamea-León
Universidad de Cuenca, ECUADOR

Academic Profile: 🧑‍🏫 📚
Dr. Salih Özer
Mus Alparslan University, TURKEY

Academic Profile: 🧑‍🏫 📚
Prof. Januar Parlaungan Siregar, Ph.D.
Universiti Malaysia Pahang, MALAYSIA

Academic Profile: 🧑‍🏫 📚
Aceng Sambas, Ph.D
Universitas Muhammadiyah Tasikmalaya, INDONESIA

Academic Profile: 🧑‍🏫 📚
Organizing Committee

=Prof. Dr. Ir. Muji Setiyo, S.T., M.T.
Universitas Muhammadiyah Magelang, INDONESIA

Academic profile:

Zuhud Rozaki, S.P.,M.App.Sc.,Ph.D.
Universitas Muhammadiyah Yogyakarta, INDONESIA

Academic profile:

Agus Setiawan, M.Eng
Universitas Muhammadiyah Magelang, INDONESIA

Academic profile:

Fitriana Yuliastuti, M.Sc.
Universitas Muhammadiyah Magelang, INDONESIA

Academic profile: