ABOUT ICENIS 2023

THE 8th INTERNATIONAL CONFERENCE ON ENERGY, ENVIRONMENT, EPIDEMIOLOGY AND INFORMATION SYSTEM (ICENIS 2023)
https://icenis.undip.ac.id/

Santika Hotel, Jalan Pandanaran, Semarang City, Central Java, Indonesia
August 8th - 9th, 2023
INTRODUCTION

The International Conference on Energy, Environment, Epidemiology and Information System (ICENIS) is an annual conference organized by the School of Postgraduate Studies Universitas Diponegoro University, one of the leading universities in Indonesia.

The 8th ICENIS 2023 discusses 4 topics, i.e. Energy, Environment, Epidemiology and Information Systems.

BACKGROUND

The coronavirus disease 2019 (COVID-19) pandemic is affecting every part of human lives. The activities to control the spread of the virus and the slowdown of economic activities have significant effects on the environment. The pandemic situation had significantly improved the air quality, reducing GHGs emissions, reduce pollution, and tourism destination which may help the ecosystem recovery. However, there are also negative consequences of COVID-19, such as increasing in medical waste, disposal of masks, gloves, disinfectants, and untreated waste that may endangering the environment.

THEME

The 8th ICENIS brings the theme “Empowering Information Systems in the Fields of Energy, Health and Environment to face Society 5.0”. Due to the Covid-19 Pandemic cases which have greatly decreased, the committee has a plan for the offline conference that will be held on August 8th – 9th, 2023.

CONFERENCE TRACKS

This conference has been succeeded since the first ICENIS 2016 and therefore becoming an annual event. All accepted articles of the 1st – 5th ICENIS have been published in Advanced Science Letters Vol 23 Number 3 March 2017 pp 2197-2635, E3S Web of Conferences Vol 31 (2018) E3S Web of Conferences Vol 73 (2018), E3S Web of Conferences Vol 125 (2019), E3S Web of Conferences Vol 202 (2020), and E3S Web of Conferences (Scopus Index, SJR 0.17) and AIP Conference Proceedings (SCOPUS Index, SJR 0.18) respectively.

1. The 1st ICENIS 2016 was published in Advanced Science Letters Vol 23 (2017)
2. The 2nd ICENIS 2017 was published in E3S Web of Conferences Vol 31 (2018)
3. The 3rd ICENIS 2018 was published in E3S Web of Conferences Vol 73 (2018)
4. The 4th ICENIS 2019 was published in E3S Web of Conferences Vol 125 (2019)
5. The 5th ICENIS 2020 was published in E3S Web of Conferences Vol 202 (2020)
6. The 6th ICENIS 2021 was published in E3S Web of Conferences Vol 317 (2021) and AIP Conference Proceedings
7. The 7th ICENIS 2022 was published in E3S Web of Conferences Vol 359 (2022)
8. In this 8th ICENIS 2023, All Selected papers will be published in E3S Web of Conferences.

CONFERENCE GOALS

1. To create an international forum for the researchers, students, industries and governments to communicate their results on the fundamentals and application of energy, environment, epidemiology, information systems
2. To share and exchange ideas, thoughts and discussions on all aspects of energy, environment, epidemiology, information systems
3. To facilitate the formation of networks among participants to enhance the quality and benefits of research and development

DATES AND VENUE

The 2023 ICENIS International Conference will be held on August 8th – 9th, 2023. This activity will be held offline (on site) at the Santika Hotel, Jalan Pandanaran, Semarang City, Central Java, Indonesia. However, participants who were unable to attend the conference location were given the opportunity to deliver their presentations online using the Zoom media provided by the Committee.

KEYNOTE SPEAKERS

In this international conference, the Committee invited seven keynote speakers from several countries to present their topics. They are as shown in the table below.

<table>
<thead>
<tr>
<th>No.</th>
<th>Keynote Speaker</th>
<th>Institutional Origin</th>
<th>Expertise</th>
</tr>
</thead>
<tbody>
<tr>
<td>1.</td>
<td>Prof. Dr. Noor Ismawati Binti Jaafar,</td>
<td>Department of Decision Science, Faculty of Business and Economics, Universiti Malaya</td>
<td>Digital Economy</td>
</tr>
<tr>
<td>2.</td>
<td>Prof. Ir. Paulus Insap Santosa, M.Sc., Ph.D., IPU.</td>
<td>Gadjah Mada University, Indonesia</td>
<td>Information and Computing Sciences/ Information Systems</td>
</tr>
<tr>
<td>No.</td>
<td>Key Speaker Name</td>
<td>Affiliation</td>
<td>Field of Study</td>
</tr>
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</tr>
<tr>
<td>3.</td>
<td>Assoc. Prof. Dr. Saengduen Moonsom</td>
<td>Department of Protozoology &amp; THOHUN, Coordinating Office, Faculty of Tropical Medicine, Mahidol University</td>
<td>Health and Epidemiology</td>
</tr>
<tr>
<td>4.</td>
<td>Prof. Alfonso J. Rodriguez-Morales</td>
<td>Institucion Universitaria Vision de las Americas, Colombia</td>
<td>Health and Epidemiology</td>
</tr>
<tr>
<td>5.</td>
<td>Prof. Dr. Ir. Hadiyanto, S.T., M.Sc., IPU</td>
<td>School of Postgraduate Studies, Universitas Diponegoro, Semarang, Indonesia</td>
<td>Energy and Chemistry Engineering</td>
</tr>
<tr>
<td>6.</td>
<td>Prof. Peter Gell</td>
<td>Federation University, Australia. Beliau juga sebagai Adjunct Professor di Sekolah Pascasarjana, Universitas Diponegoro, Semarang, Indonesia.</td>
<td>Environmental Studies</td>
</tr>
<tr>
<td>7.</td>
<td>Assoc. Prof. Dr. Tomoya Kataoka</td>
<td>Department of Civil &amp; Environmental Engineering, Ehime University, Japan</td>
<td>Civil and Environmental Studies</td>
</tr>
</tbody>
</table>

From the seven key speakers invited, Prof. Ir. Paulus Insap Santosa, M.Sc., Ph.D., IPU. unable to attend this conference due to his unwell condition.

**NUMBER OF PAPERS, PARTICIPATING COUNTRY OF ORIGIN, AND OUTPUTS**

In 2023, the ICENIS 2023 Committee has received 331 (three hundred and thirty-one) submitted papers, which came from various universities, research centers and industry from 10 (ten) countries, i.e. from:

1. Japan
2. Australia.
3. Iran
4. Iraq
5. Malaysia
6. Thailand.
7. Colombia.
8. Ethiopia.
10. Indonesia.

After going through a careful review process, the Committee determined 239 (two
hundred and thirty nine) papers to be presented at this conference. Regarding the outcomes of the 2023 ICENIS International Conference, it can be said that all papers accepted and presented will be submitted for upload to the Proceedings of the "E3S Web of Conferences", where from experience in previous years all submitted papers will be indexed in Scopus. The Book of Abstracts and List of Papers can be seen in full in the Appendix.

**System for Acceptance, Selection and Review of Paper Manuscripts**

Acceptance and selection processes of papers is carried out as in the diagram presented in Figure 1.

![ICENIS Registration and Publication Flowchart 2023](image)

Figure 1. ICENIS Registration and Publication Flowchart 2023.

Conference Registration is an online-based system for registering and submitting articles. The menus contained in the system include the author, editor, reviewer, treasurer and administrator menus. The ICENIS registration process is carried out online, namely the author fills in personal registration data via the page:

Next, submit the abstract/article. Incoming abstracts/articles are then accommodated in the user editor, which will then be distributed to reviewers for review according to the reviewer's field which consists of two stages (abstract review and full paper review). Abstracts that have passed the review process will then receive an automatic notification to submit the full paper and be invited to present their work. The submitted full papers then go through a review and revision process, then it will be determined which articles will be included in the proceedings of the E3S Web of Conference, other national and international journals.

PROMOTION

Brochures/leaflets related to the promotion of 2023 ICENIS International Conference activities can be shown in Figure 2.
INTERNATIONAL CONFERENCE ON ENERGY, ENVIRONMENT, EPIDEMIOLOGY, AND INFORMATION SYSTEM [ICENIS 2023]

“Empowering Information Systems in the Fields of Energy, Health and Environment to face Society 5.0”

Call for Paper will be held on August 8th - 9th.

Keynote Speakers

1. Energy
- Energy Management and Policy
- Energy Planning and Education
- Energy Conservation and Efficiency
- Energy Conversion and Technology
- Renewable Energy
- Non-Renewable Energy/Fossil Energy

2. Environment
- Environmental Conservation
- Environmental Policy Planning and Education
- Environmental Technology
- Environmental Health and Toxicology
- Environmental Epidemiology
- Pollution Control
- Waste Management
- Green Infrastructure and Resilience

3. Epidemiology
- Epidemiology related to disease and health event prevention and control
- Managerial Epidemiology
- Environmental Epidemiology
- Occupational Epidemiology
- Nutritional Epidemiology

4. Information Systems
- Business Intelligence
- Supply Chain Information Systems
- Industry Information Systems
- Decision Support Systems
- Smart Information Systems
- Health, Safety and Environment Information Systems

* IMPORTANT DATES

Batch 1
Full Paper Submission Deadline: 1 May 2023
Notification of Acceptance: 30 May 2023
Registration Fee: 1 June - 30 June 2023
Camera Ready Paper: 30 June 2023

Batch 2
Full Paper Submission Deadline: 1 June - 15 July 2023
Notification of Acceptance: 1 August 2023
Registration Fee: 1 August 2023
Camera Ready Paper: 1 August 2023

VENUE AND DATES

The 8th ICENIS will be held on Saturday, 8th August 2023, at the IUP Generic Campus, Central Java, Indonesia.

PUBLICATION

All accepted papers will be published in: Proceeding indexed by Scopus, EIIC, and WRI Conference Proceedings.

CONTACT PERSON

Prof. Dr. Ir. R. Rizal Isanto, M.T., M.M., M.T., IPU, ASEAN Eng., +62 81112661508
Dr. dini Dwi Sudiningrum, M.Kes, +62 812328022588
Dr. Ogy Dw Marlaviri, S.T., M.T., +62 81993360000
Dakna Listianawati, E.Hum, +62 8157933293

8th INTERNATIONAL CONFERENCE ON ENERGY, ENVIRONMENT, EPIDEMIOLOGY, AND INFORMATION SYSTEM [ICENIS 2023]

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Figure 2. Flyer of ICENIS 2023
Meanwhile, the text accompanying the installation of flyers displayed on social media, such as Facebook, Whasatts, Instagram, and so on can be seen as follows.

The paper submission is extended until July 14, July 31, 2023.

Call for Paper ICENIS 2023
School of Postgraduate Studies Diponegoro University proudly present
The 8th International Conference on Energy, Environment, Epidemiology, and Information Systems (ICENIS 2023) on August 8th-9th, 2023. The event will be held in hybrid mode (online and offline)
📍 Santika Hotel, Pandanaran Street, Semarang, Central Java, Indonesia

Keynote Speakers:
📍 Prof. Dr. Noor Ismawati Binti Jaafar, Department of Decision Science, Faculty of Business and Economics, Universiti Malaya
📍 Prof. Ir. Paulus Insap Santosa, M.Sc., Ph.D., IPU - Gadjah Mada University, Indonesia (Information and Computing Sciences/Information Systems)
📍 Asst. Prof. Dr. Saengduen Moonsom, Department of Protozoology & THOHUN, Coordinating Office, Faculty of Tropical Medicine, Mahidol University
📍 Prof. Alfonso J. Rodriguez-Morales, Institucion Universitaria vision de las Americas, Colombia
📍 Prof. Dr. Ir. Hadiyanto, S.T., M.Sc., IPU, School of Postgraduate Studies, Undip, Indonesia
📍 Prof Peter Gell - Australia (Environment Studies)
📍 Dr. Tomoya Kataoka - Japan (Department of Civil & Environmental Engineering, Ehime University)

Theme for ICENIS 2023 is:
“Empowering Information Systems in the Fields of Energy, Health and Environment to face Society 5.0”

Topics:
1. Energy: Energy management and policy; Energy planning and Education; Energy conservation and efficiency; Energy conversion technology; Renewable energy; Non-renewable energy / Fossil energy
2. Environment: Environmental Conservation; Environmental Policy, Planning and Education; Environmental Technology; Environmental Health and Toxicology; Environmental Epidemiology; Pollution Control; Waste Management; Green Infrastructure and Resilience
3. Epidemiology: Epidemiology related to disease and health event prevention and control; Managerial epidemiology; Environmental epidemiology; Occupational epidemiology; Nutritional epidemiology
4. Information Systems: Business Intelligence; Supply Chain Information Systems; Industrial Information Systems; Decision Support Systems; Smart Information Systems; Health, Safety and Environment Information Systems

All papers accepted will be published in
📍 Proceeding of E3S Web Conference (Scopus indexed)

Conference Fee

REGULAR
Student: IDR 2.500.000 (USD 200), additional paper: IDR 2.000.000 (USD 150)
UNDIP Postgraduate School's Student: IDR 1.500.000
Non-student: IDR 3.500.000 (USD 300), additional paper: IDR 2.500.000 (USD 200)

INTERNATIONAL PARTICIPANTS
For first 20 international participants will be free of charge

NON PAPER PARTICIPANTS
Indonesian Participant IDR 500,000
International Participant USD 50

Seminar kits are available only for participants who present offline

All information will be update on https://icenis.undip.ac.id/

For further information, please contact
Prof. Dr. Ir. R. Rizal Isnanto, S.T., M.M., M.T., IPU, ASEAN Eng. ☏ +62 8112661508
Ekana Listianawati, S.Hum. ☏ +62 81578933293

Best regards
ICENIS 2023 Committee
COMMITTEE

Chairperson: Prof. Dr. Ir. R. Rizal Isnanto, S.T., M.M., M.T., IPU, ASEAN Eng.
Co-Chairperson: Dr. drh. Dwi Sutiningsih, M.Kes.
Secretariat:
1. Wahyu Setiyadi, S.Kom., M.Kom
2. Ekana Listianawati, S.Hum
3. Marisa Anugraheni Lestyanti, S.S.T
Program Section:
1. Dr. Fuad Muhammad, S.Si., M.Si.
2. Dr. Oky Dwi Nurhayati, S.T., M.T.
3. Dr. Jaka Windarta, M.T
4. Soemargito, S.S
5. Alwi Achmad Muda, A.Md
6. Almusriah
7. Arief Hidayat
8. Iwan Purwanto, S.Kom., MTI
Publication Section:
2. Emilia Rachmawati, S.Si
3. Siti Andriyani, S.Sos
Supporting Section:
1. Andi Prabowo, S.Kom., M.Kom
3. Fitri Nurhandayani
4. Rochmad
5. Rosyid Isnanto, A.Md.
Treasure Section:
1. Nurlilla Suryaningsih, S.E.
2. Doni Fajar Dwi Riyanto, S.E
3. Wikasita Kusumawati, S.T.
# ACTIVITY SCHEDULE

The following is the schedule of preparation activities for ICENIS 2023 up to the submission of papers in Scopus indexed Proceedings.

<table>
<thead>
<tr>
<th>No</th>
<th>Activity</th>
<th>Duration</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Preparation and formation of the committee</td>
<td>13 April 2023 – 31 April 2023</td>
</tr>
<tr>
<td>2</td>
<td>Corresponding and communication with Keynote Speakers.</td>
<td>31 April 2023 - 29 May 2023</td>
</tr>
<tr>
<td>3</td>
<td>Making and upload of the conference website icenis.undip.ac.id</td>
<td>31 April 2023 – 1 June 2023</td>
</tr>
<tr>
<td>4</td>
<td>Journal registration and initiation of collaboration contracts with international journals and accredited journals</td>
<td>15 April 2023 – 10 June 2023</td>
</tr>
<tr>
<td>5</td>
<td>Abstract submission</td>
<td>1 June 2023 – 15 July 2023</td>
</tr>
<tr>
<td>6</td>
<td>Full paper submission</td>
<td>15 July 2023 – 30 August 2023</td>
</tr>
<tr>
<td>7</td>
<td>Registration Ends</td>
<td>25 July 2023</td>
</tr>
<tr>
<td>8</td>
<td>Conference date*</td>
<td>8-9 August 2023</td>
</tr>
<tr>
<td>9</td>
<td>Paper Review by editor(s)</td>
<td>25 October 2023 - 25 November 2023</td>
</tr>
<tr>
<td>10</td>
<td>Paper Submission in Scopus indexed Proceedings (E3S Web of Conferences)</td>
<td>30 November 2023 - 31 December 2023</td>
</tr>
</tbody>
</table>
Some photos of activities recorded during the 2023 ICENIS International Conference can be seen in the following pictures.
THE CONFERENCE PAPERS WILL BE PUBLISHED IN
“E3S WEB OF CONFERENCES”

The conference manuscript that will be published is a manuscript that has gone through
the review process and has been presented at the ICENIS 2023 International Conference event.
The papers presented at ICENIS 2023 and will be published on the E3S Web of Conferences are
presented, where previously all papers were indexed in Scopus

CLOSING

The activity report "The 8th International Conference on Energy, Environment,
Epidemiology and Information Systems" (ICENIS 2023) has been completed as a requirement
for publication on the E3S Web of Conferences.

Hopefully ICENIS 2023 will go according to plan so that all papers can be published in
the E3S Web of Conferences proceedings indexed by Scopus. It is also hoped that this
International Conference activity will continue to be carried out every year with the expected
results.
Welcoming Speech Chairperson of The 8th ICENIS 2023

It is indeed a great pleasure for me to represent School of Postgraduate Studies Universitas Diponegoro to welcome you to the The 8th International Conference on Energy, Environment, Epidemiology and Information Systems (ICENIS 2023). We set our goal to run this conference to be conducted annually. The main objective is to provide a platform for academician, researchers, engineers, and professionals from anywhere in the world to expose and exchange innovative ideas, disseminate, and discuss their research updates in relation to the aspects of Energy, Environment, Epidemiology, Information Systems, as well as Multidisciplinary Topics.

ICENIS 2023 has the theme of Empowering Information Systems in the Fields of Energy, Health, and Environment to face Society 5.0.

In the event, we have invited seven keynote speakers from several countries, they are:

1. Prof. Dr. Noor Ismawati Binti Jaafar, Department of Decision Science, Faculty of Business and Economics. Universiti Malaya, Malaysia
2. Asst. Prof. Dr. Saengduen Moonsom, Department of Protozoology & THOHUN, Coordinating Office, Faculty of Tropical Medicine, Mahidol University, Thailand
3. Prof. Alfonso J. Rodriguez-Morales, Institucion Universitaria vision de las Americas, Colombia
4. Prof. Peter Gell, Federation University, Australia. He is also as Adjunct Professor in School of Postgraduate Studies, Universitas Diponegoro, Semarang, Indonesia.
5. Dr. Tomoya Kataoka, Associate Professor, Department of Civil & Environmental Engineering, Graduate School of Science and Engineering, Ehime University, Japan
6. Prof. Ir. Paulus Insap Santosa, M.Sc., Ph.D., IPU, Gadjah Mada University, Yogyakarta, Indonesia
7. Prof. Dr. Ir. Hadiyanto, S.T., M.Sc., IPU, School of Postgraduate Studies, Universitas Diponegoro, Semarang, Indonesia.

This year, we have received 331 submissions, to be exact from various universities, research centers, as well as from industries from 10 (ten) countries, those are from Japan, India, Iran, Iraq, Malaysia, Thailand, Colombia, Ethiopia, Timor Leste, as well as from Indonesia. After careful reviews, we selected 239 (two hundred and thirty-nine) papers to be presented in this conference. All the accepted and presented papers will be submitted for uploading to the E3S Web of Conferences Proceedings.

We thank all authors and parties who have contributed and participated in presenting their works at this conference. We also gratefully acknowledge all reviewers for their respected knowledge from members of Conference Committee from Indonesia and abroad. Their efforts were crucial to the success of the conference. We are also blessed by the presence of seven invited keynote speakers from different institutions which will address significant trends relating to Energy, Environment, Epidemiology, Information Systems, as well as Multidisciplinary Topics.

At last, we wish you all enjoying a two days discussions through this conference and spend time to feel the beauty of Semarang City.

Thank you and very best regards,

Prof. Dr. R. Rizal Isnanto
ICENIS 2023 Chairperson