

ICESTI 2019 will provide a forum for accessing to the most up-to-date and authoritative knowledge from both industrial and academic worlds, sharing best practice in the field of Electrical Systems, Technology and Information towards sustainable development. The conference will provide an opportunity to highlight recent developments and to identify emerging and future areas of growth in these exciting fields.



Call for Papers

Major tracks of interest include, but not limited to the following

Technology Innovation in Information Technology

Artificial Intelligence and Its Applications

Genetic Computation
 Fuzzy Logic and Control
 Neural Networks
 Pattern Recognition
 Smart Web Applications
 Intelligent and Multi-Agent Systems
 e-Health, Smart Learning, Intelligent Processing
 Computer Vision Applications
 Smart Cloud Technology

Internet of Things (IoT)

ICT Architecture for IoT
 Real-Time Systems for IoT
 Embedded Internet
 Mobile Computing & Applications
 Smart Appliances & Wearable Computing Devices
 Information Infrastructure for Smart Living Spaces

Technology Innovation in Electrical and Electronics

Mechatronics and Robotics
 Power System and Smart Grid
 Distributed Generation
 Electrical Machines, Power Electronics and Drives
 Control and Automation
 Embedded System, Sensors, Actuators
 Communication, Networks, and Information Theory
 Computer Engineering
 Signal, Image, Speech and Information Processing
 Circuits and Systems
 Bioengineering
 Renewable Energy
 Energy Planning and Policy
 Energy Science and Technology
 Efficient Resources Utilization
 Climate Change Mitigation
 Green Architecture, Energy in Building

Publication

After a careful refereeing process, selected papers will be submitted and published on E3S Web of Conferences proceeding and Journal indexed Scopus and Scimago.

Best Paper Award

The Award is given to recognize the best two papers presented at the ICESTI 2019. One award is for a paper emphasizing contributions to theory and the other emphasizing significant or innovative applications. The papers must have been presented by the awardee or a coauthor. Criteria for selection include the quality of the written and oral presentation, the technical contribution, timeliness, and practicality.

Important Dates

Extended abstract submission: 30 May 2019
 Notification of abstract acceptance: 10 June 2019
 Full paper submission: 25 June 2019
 Notification of acceptance: 30 June 2019
 Final paper submission and registration: 15 July 2019

24-27 October 2019

Bintang Bali Resort Hotel
 Jl. Kartika Plaza, South Kuta Beach,
 Kuta Bali 80361, Indonesia

Keynote Speakers



Prof. Yosuke Nakanishi, Ph.D
 Graduate School of Environment and Energy Engineering
 Waseda University, Japan



Prof. Dr. Ir. Mauridhi Hery Purnomo, M.Eng
 Computer Engineering Department
 Sepuluh Nopember Institute of Technology, Indonesia



Prof. Giovanni Berselli, Ph.D.
 Department of Mechanical Engineering, Energy, Management and Transport
 University of Genoa, Italy



Prof. Dong-Seong Kim
 Department of Electrical Engineering
 Kumoh National Institute of Technology, Korea

Registration

Conference Fee	Early Bird		After, 15 July 2019	
	International	Local	International	Local
First paper (up to 6 pages)	USD 400	Rp 4,000,000	USD 450	Rp 4,500,000
Each additional paper	USD 250	Rp 2,500,000	USD 300	Rp 3,000,000
Extra page of accepted papers	USD 50	Rp 500,000	USD 50	Rp 500,000
Accompanying delegate	USD 150	Rp 1,500,000	USD 150	Rp 1,500,000
Social event: Half day tour	USD 50 (optional)	Rp 500,000	USD 50 (optional)	Rp 500,000

Note:

- At least one author for each accepted final paper must preregister.
- Additional papers must contain the same list of authors with prior paper and are valid only if submitted by the same authors whose name listed in first accepted paper.
- Two papers, although have the same corresponding author but with different lists of authors, will be treated as paper registered from different participant. Hence, first paper registration fee will be applied for such case.
- Since all accepted papers will be published in the designated international journals, a program book and CD contains conference program and list of abstracts is going to be provided for all participants.
- Registration fee for author presenting their paper or for accompanying delegate includes conference kit, lunch-coffee break and conference dinner as indicated in the program, souvenir, attending all technical and parallel sessions, and journal publication. Please be noted that registration fee made under one name of participant entitled for one ticket of conference dinner.
- The social event is optional at the cost of USD 50 or Rp 500,000, booking is required at least at Day 2. The itinerary of the event will be informed later.

Wire Transfer Payment Method:

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For paper submission and conference related inquiry, please send email to icesti2019@gmail.com
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Preface 4th ICESTI 2019

This proceeding includes the original, peer-reviewed research papers from the 4th International Conference on Electrical Systems, Technology and Information (ICESTI 2019), held during 24-27 October 2019, at Bintang Bali Resort Hotel, Kuta, Bali, Indonesia.

The primary objective of this proceeding is to provide references for dissemination and discussion of the topics that have been presented in the conference. This volume is unique in that it includes work related to Electrical Engineering, Technology and Information towards their sustainable development. Engineers, researchers as well as lecturers from universities and professionals from industry and government will gain valuable insights into interdisciplinary solutions in the field of Electrical Systems, Technology and Information, and its applications.

It explores emerging technologies and their application in a broad range of engineering disciplines, including communication technologies, smart grids, and renewable energy. It examines hybrid intelligent and knowledge-based control, embedded systems, and machine learning. It also presents emerging research and recent application in green energy system and storage. It discusses the role of electrical engineering in biomedical, industrial and mechanical systems, as well as multimedia systems and applications, computer vision and image and signal processing.

In the conference there were three invited papers, entitled: “Power System Planning for Energy Transition”, “CAE Based Method for Designing Compliant Mechanism”, “The Role of Deep Learning in Computational of Power System Operation”, and “Reliability and Real Time in Industrial IoT”, and one invited speaker with the topic of “Grid Integration of Renewable Energy Technical Challenge to Technological Solution”.


This conference was also attended by special guests from e-Asia Joint Research Project, a research collaboration among four countries, Institut Teknologi Nasional Malang supported by RISTEKDIKTI, Waseda University supported by Japan Science and Technology Agency, Mindanao State University-Iligan Institute of Technology supported by DOST, The Philippines, and NECTEC research center supported by Nasdaq Thailand. This collaborative research focuses on Energy Infrastructure in e-Asia Countries.

The Proceedings of the 4th ICESTI 2019 consists of 27 selected articles, amount 24 of them were the results of joint research by Indonesian and overseas scholars. In the collaboration research, 32 institutions were involved 18 of which were from abroad Indonesia. The overseas institutions are from Australia, Estonia, Germany, India, Japan, Latvia, Lithuania, Malaysia, the Netherlands, Palestine, Philippines, Republic of China, Singapore, Sweden, & United Kingdom. Editing procedures were held by scholars from four countries (Estonia, Georgia, India, Indonesia)

In addition, we are really thankful for the contributions and for the valuable time spent in the review process by our Advisory Boards, Committee Members and Reviewers. Also, we appreciate our collaboration partners (Petra Christian University, Surabaya; University of Ciputra, Surabaya), and also to our keynote and invited speakers from Graduate School

of Environment and Energy Engineering, Waseda University, Japan; Department of Mechanical Engineering, Energy, Management, and Transport University of Genoa, Italy, Department of Electrical Engineering, Kumoh National Institute of Technology, South Korea, Department of Electrical Engineering, Sepuluh Nopember Institute of Technology, Surabaya, and School of Information Technology and Electrical Engineering, The University of Queensland, respectively. And also thanked to Department of Electrical Engineering, National Institute of Technology, Malang, Indonesia, Bintang Bali Resort Hotel, Kuta, Bali, E3S Web of Conferences, and “*Rumah Paper Kita*” as editing and proofreading services.

On behalf of the Organizing Committee



Abraham Lomi
General Chairman

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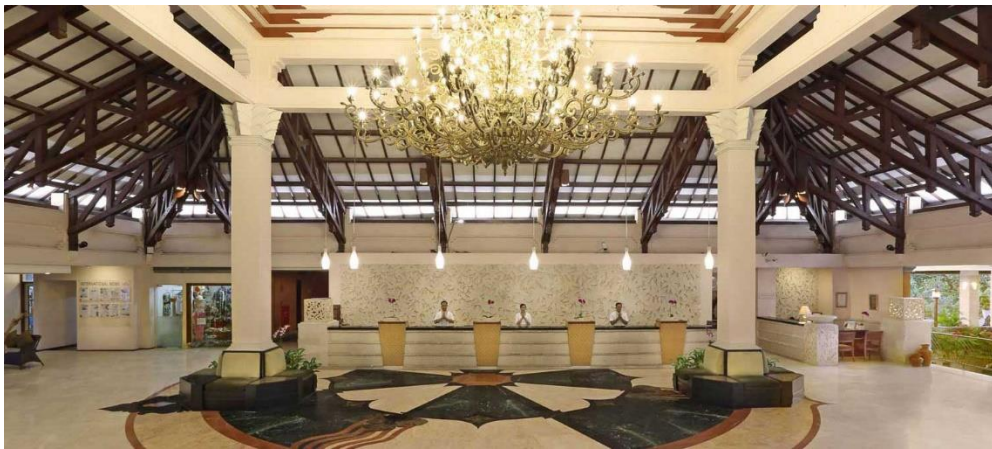
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Resort

4th ANNUAL 2019
ICESTI
INTERNATIONAL CONFERENCE ON ELECTRICAL
SYSTEMS, TECHNOLOGY & INFORMATION

Venue



**The Venue of the 4th ICESTI 2019,
Bintang Bali Resort Hotel, Bali, Indonesia**



Photo Session



Delivered Gift to Keynote Speaker
Left: Prof. Abraham Lomi,
General Chairman ICESTI 2019
Right: Prof. Giovanni Berselli, Ph.D.



Delivered Gift to Keynote Speaker
Left: Prof. Abraham Lomi,
Right: Prof. Dong-Seong Kim



Delivered Gift to Keynote Speaker
Left: Prof. Abraham Lomi
Right: Assc. Prof. Mithulananthan



**Photo Session:
General Chair and
Keynote Speakers**



Keynote Speakers Session: Prof. Dong-Seong Kim



Keynote Speakers Session: Prof. Dr. Ir. Mauridhi Hery



Ass. Prof. Mithulananthan Madarajah



Prof. Yosuke Nakanishi, Ph.D



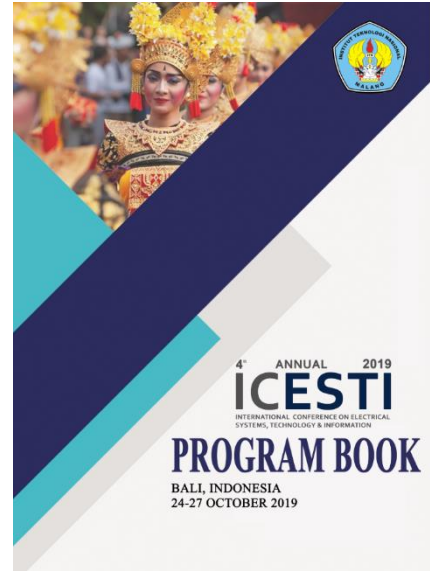
Participants and Presentation Session



Presenters Photo



**Question and Answer
Session Conferences**



The 4th International Conference on Electrical Systems, Technology and Information (ICESTI 2019)

PROCEEDINGS The 4th ICESTI 2019 International Conference on Electrical Systems, Technology and Information

Bali, Indonesia
24–27 October 2019



National Institute of Technology, Malang, Indonesia and
E3S—Web of Conferences, EDP Sciences, Paris, France

In Collaboration with:
Petra Christian University, Surabaya, Indonesia and
Ciputra University, Surabaya, Indonesia

Supported by:
University of Oulu, Finland and
Dongseo University, South Korea

August, 2020

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Please email to the Contac Person below.
If you need a proceeding cover the 4th ICESTI 2019 above

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