

International Conference on Applied Electromagnetic Technology

9-12 April 2018

Engineering Faculty, University of Mataram, Lombok NTB, Indonesia



The 2nd AEMT

CALL FOR PAPERS (5th circular)

The 2nd AEMT 2018 is a multidisciplinary forum for national and international researchers, aiming to accommodate many great ideas and expecting high number of actual researches and new findings. It will offer a rich technical program of highest quality, lectures presented by distinguished speakers from all over the world, and a broad exchange platform for academia and industry, as well as government. The conference covers all related topics with Electromagnetic Technology, including (but not limited to) geo-electromagnetism, energy, transportations, telecommunications, power system, electronics, control and instrumentations, biomedical, environmental, computation and informatics, statistical, and educational approaches. We wish to invite all prospective authors and experts to submit original papers on their latest research. The 2nd AEMT will be conducted in the Lombok island, believed to bring the conference on a specific atmosphere, since it is located on the highest intensity of geomagnetic anomalies in Indonesian regions. The conference is in conjunction with the inauguration of the Nurul Bayan Geomagnetic Station (NRB).

For further information, please visit our web site <http://aemt.unram.ac.id> or send your inquiry to aemt@unram.ac.id.

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Prof. Michael Weber (GFZ Potsdam, Germany)
Mr. Thorsten Chmielus (CEO Aaronia AG GmbH)

IMPORTANT DATES

Abstract Submission	8 October 2017 (Closed)
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Final Full Paper Submission	4-31 December 2017
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Camera-Ready Paper Submission	15 January 2018
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Deadline for Registration	15 February 2018
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PAPER SUBMISSION

All papers must be submitted through easy chair submission system. Papers must be written on A4-format page according to the IEEE template. Manuscripts are of minimum four (4) pages and up to eight (8) pages in length. Submissions exceeding eight (8) pages will not be accepted. Papers should NOT have page numbers, headers, and footers. Conference papers are to be submitted electronically (*.pdf form), with file size limited to 5 MB. Accepted and presented papers will be published in the Conference Proceedings. Selected papers will be submitted to IEEE Xplore® online digital library, the International Journal of Technology (IJTech), and the International Journal on Electrical Engineering and Informatics (IJEED) for publication. The most important issue that every author shall pay attention is to make sure that all the fonts used in the papers are EMBEDDED and SUBSETTED, especially for papers from Asia and Europe. Please make sure that the submitted PDF files are compliant with IEEE Xplore®. Papers failing to meet the IEEE Xplore® PDF requirements may be rejected.

TOPICS

- **Geo-Electromagnetism:** Geomagnetic observations for earthquake precursors, Electromagnetic anomaly mapping, Remote sensing of the Earth, ocean, and atmosphere, Microwave remote sensing and polarimetry, Subsurface imaging and detection technology.
- **Energy & Transportation:** EM method for geothermal exploration, EM method for oil and mineral explorations, Geomagnetic energy, Light harvesting and photovoltaic, Magnetic levitation and collision avoidance.
- **Telecommunication:** EM signal processing, Transmission lines and waveguide, Antenna, RF and wireless communication, Propagation and field scattering, Frequency spectrum and its management.
- **Power system:** Electromechanical machine and device, Power electronics & superconducting devices, EM radiations of power lines and substations, Power System EMC and Smart Grid.
- **Electronics, control and instrumentations:** Optoelectronics, EM measurement and instrumentation, Electric vehicles & aerospace, Electronic packaging & integrated circuit.
- **Biomedical:** Electromagnetic scanning technology, EM exposure and healthcare, EM medical devices & hospital instrument.
- **Environmental:** Electromagnetic environment, EMC in nanotechnology and advanced materials, EMC standard and regulation, Transient and electrostatic discharge, Coupling, Shielding, Grounding, Gasketing & Filtering.
- **Computation and Informatics:** Electromagnetic modeling, Fast iteration and parallel computational methods of EM, Hybrid method computation, EM data acquisition, features, and mining, EM design and diagnostics with artificial intelligence, EM data management and utilities for governments, companies, and institutes, Application of big data to EMC, Quantum electrodynamics, computing and information theory, Electromagnetic signal processing, wavelets, and neural network.
- **Wireless Power Transfer:** Modeling, simulation, design, and control systems of WPT, Wireless charging of electric vehicles, Design and fabrication of electromagnetic couplers, High-power WPT for fast charging, Safety, health, and environmental issues of WPT, WPT infrastructure development.
- **Electromagnetic Education:** Electromagnetic theory in classrooms, Delivery EM specific topics to students, EM educational props, Media for EM studies, EM topics for student competition, EM topics for student final projects.

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