The 2023 IEEE Transportation Electrification Conference and Expo, Asia-Pacific (ITEC Asia-Pacific 2023) will be organized and hosted by the Center of Excellence in Electrical Power Technology, Chulalongkorn University and Rajamangala University of Technology Lanna in technical collaboration with the IEEE Joint IAS/IES/PELS Thailand Chapter, and will be held in Chiang Mai, Thailand between 28 November – 1 December 2023.

ITEC Asia-Pacific is part of the global IEEE ITEC conference series which aims to provide a forum for sharing knowledge, experience, and ideas in electrical technologies for transportation. Technical sessions, tutorials, exhibitors, and industry activities are planned. This international conference is co-sponsored by the IEEE Industry Applications Society*, the IEEE Power Electronics Society*, the IEEE Power and Energy Society*, and the IEEE Transportation Electrification Community.

Technical papers accepted and presented at the conference will appear on IEEE Xplore. Accepted and presented papers are eligible for further review for the IEEE Transactions on Industry Applications and other IEEE journals, subject to the conference paper submission rules of each journal.

Calls for Special Sessions, e.g., Industry Sessions, Focused Sessions, Tutorials, and Exhibitor Seminars, will be posted at https://www.itec-ap2023.com.
Conference Topics

- Power electronics and motor drives
- Electric machines and actuators
- Powertrain design, thermal management, packaging, and optimization
- Batteries, fuel cells, and energy storage systems
- Modeling, simulation, control, and prototyping for transportation electrification
- Electric vehicle system architectures and control
- Electrification of heavy duty and off road vehicles
- Charging infrastructure, vehicle grid interaction
- Charging load forecasting and coordination strategies
- Wired and wireless charging technologies
- Electrical systems and components for railway, sea, undersea, air, and space vehicles
- Functional safety, smart mobility, autonomy
- Standards and policies for transportation electrification
- Other major topics on transportation electrification

Digest Submission

Prospective authors are invited to submit a digest in PDF by visiting https://www.itec-ap2023.com. The digest should not exceed four pages including references. The digest should explain the problem to be addressed in the paper, key results, and how the contribution differs from existing related literature. Papers presented at ITEC AP must be original material, not previously presented or published.

If the digest is accepted, authors must submit a final manuscript prior to the deadline below. Late submissions cannot be published in the Proceedings or presented at the conference. The final manuscript can be up to eight pages long, following the IEEE two-column final paper format. Overlength submissions may be subject to additional charges. At least one of the authors listed on each paper must register for the conference. Each registration covers for a single paper, and multiple submissions from the same author will incur additional charges.

Committees

• General Chair
  Krisda Utamote, Electric Vehicle Association of Thailand (EVAT)

• Honorary Committee
  Supot Teachavorasinskun, Chulalongkorn University, Thailand
  Kitchar Chaitanu, Rajamangala University of Technology Lanna, Thailand

• General Co-Chair
  Wijarn Wangdee, Center of Excellence in Electrical Power Technology (CEPT), Chulalongkorn University
  Nisal Fuengwarodsakul, The Sirindhorn International Thai-German Graduate School of Engineering (TGGS), Thailand

• Organizing Chair
  Surapong Suwankawin, Chulalongkorn University, Thailand

• Organizing Co-Chair
  Uthai Kamnarn, Rajamangala University of Technology Lanna, Thailand

• Website Arrangement
  Pratch Piyawongwisal, Rajamangala University of Technology Lanna, Thailand

• Technical Program Chair
  Kongpan Areerak, Suranaree University of Technology Nakhon Ratchasima, Thailand

• International Steering Committee
  Chair: Uthane Supatti, Kasetsart University, Thailand
  Members: Jin Woo Ahn, Kyungsung University, Korea
  Philip Krein, University of Illinois at Urbana Champaign, USA
  Bruno Lequesne, E Motors Consulting, LLC, USA
  Dianguo Xu, Harbin Institute of Technology, China
  Burak Ozpineci, Oak Ridge National Laboratory, USA
  JiangBiao He, University of Kentucky, USA
  Chris Mi, San Diego State University, USA
  Woongchul Choi, Kookmin University, Korea

• Advisory Committee
  Sompob Polmai, King Mongkut's Institute of Technology Ladkrabang, Thailand
  Yuttana Kumsuwan, Chiang Mai University, Thailand
  Jutturit Thongpran, Rajamangala University of Technology Lanna, Thailand
  Somboon Sangwongwanich, Chulalongkorn University, Thailand
  Naebboon Hounchareon, Chulalongkorn University, Thailand

Contact

ITEC-AP 2023 Secretariat
Rajamangala University of Technology Lanna
128 Huay Kaew Road, Muang, Chiang Mai, Thailand, 50300
E-mail: itecap-info@rmutl.ac.th

About Chiang Mai

Chiang Mai is located in northern Thailand and is known for its rich cultural history and numerous temples, making it a popular destination for those interested in experiencing traditional Thai culture. The city is home to many temples, including the famous Wat Phra That Doi Suthep, which sits atop a hill and offers panoramic views of the city. Chiang Mai also offers a variety of outdoor activities such as trekking and rock climbing. It is also famous for its authentic Thai cuisine and lively night markets offering diverse goods and street food.