

AEIT International 2024 Annual Conference

116th
Edition

ENERGY and ENVIRONMENT FESTIVAL



Trento - Italy
25-27 September 2024

Grand Hotel Trento
Piazza Dante, 20 - Trento

Organised by



Co-organiser



Technical sponsorship of



Under the patronage of



OVERVIEW

In the ever-evolving dynamics of global energy, clean electricity, digitalisation, and the transformative potential of artificial intelligence (AI) emerge as pivotal drivers of change. Recognising the urgent need for innovative solutions to combat climate change and ensure sustainable energy access, the AEIT2024 International Annual Conference strides forward as a beacon of progress.

AEIT2024 is poised to deepen our time's pressing scientific and technological challenges, steering the debate towards decarbonisation and resilient energy infrastructure. At its core, the conference explores digitalisation and AI's profound impact on energy systems, from optimising renewable energy integration or managing the flexibility of distributed energy resources and multi-vector energy systems to enhancing energy system adequacy, security and resiliency.

The AEIT2024 international forum is crucial for exchanging cutting-edge research and fostering collaboration between industry and academia. From renewable energy integration to power system optimisation, automation, and digital applications to Regulation, electricity markets and energy economy, AEIT2024 strives to push the boundaries of knowledge and innovation.

Moreover, AEIT2024 transcends traditional format, offering a platform for interactive discussions on energy planning amidst uncertainty in our increasingly complex world. As we convene for the 116th edition, speakers and participants from across the globe will converge to share insights, chart pathways for sustainable development, and harness the transformative potential of research and innovation in shaping the future of energy.

Whether in-person or virtually, AEIT2024 beckons researchers, policy-makers, and industry leaders to join the forum contributing their expertise to propel us towards a more sustainable, equitable, and AI-driven energy landscape.

PROGRAMME

Wednesday, 25 September

| | |
|-------------------------------|---|
| 8:30-10:00 | Registration & Welcome Coffee |
| 10:00-11:00 | MAIN ROOM Welcome Statements |
| 11:00-13:00 | MAIN ROOM Panel Intelligenza Artificiale per l'industria: sfide, opportunità e impatto sociale Chair: Vincenzo Piuri - AEIT2024 Technical Program Chair Rita Cucchiara – Università di Modena e Reggio Emilia Cecilia Metra – Università di Bologna Paola Velardi – Sapienza Università di Roma |
| 13:00-14:00 | Lunch |
| 14:00-16:00 | MAIN ROOM Keynote Speech: ARERA Panel Stato attuale e prospettive della Transizione Energetica Con la partecipazione di: Alperia, CVA Compagnia Valdostana delle Acque, e-distribuzione, Gruppo Dolomiti Energia, Hitachi Energy, Prysmian, RSE, Terna e altri |
| 16:00-16:15 | Coffee Break |
| 16:15-17:30 | MAIN ROOM SME and START UP Session Chair: Alberto Birga - AEIT2024 Industry Relations Chair Con la partecipazione di: Algortec, Bluenergyrevolution, CYSEC, Gauss Fusion, Mywai, TEA, Tiesse e altri |
| 17:30-18:45 | MAIN ROOM, Room A, Room B, Room C Parallel Special and Technical Sessions |
| 19:30 | Conference Cocktail presso il Castello del Buonconsiglio con il Coro SAT |
| Thursday, 26 September | |
| 9:00-10:45 | Room B Panel Road Tunnels Power Systems |
| 9:00-10:45 | MAIN ROOM, Room A, Room C Parallel Special and Technical Sessions |
| 10:45-11:00 | Coffee Break |
| 11:00-11:45 | MAIN ROOM Invited Speech: Chiara Boccaletti - IEEE IAS Liaison Officer: 2024 IEEE R.H.Kaufmann Award to Professor Giuseppe Buja Invited Speech: Roberto Caldon - Direttore della Rivista "L'Energia Elettrica": I cento anni della Rivista "L'Energia Elettrica" |
| 11:45-13:00 | MAIN ROOM Panel Infrastrutture elettriche: dalla tecnologia alle competenze Chairs: Giuseppe Parise - AEIT2024 General Chair, Fabrizio Pilo - AEIT2024 Technical Program General Chair Con la partecipazione di: Alperia, Gruppo Dolomiti Energia, Hitachi Energy, Prysmian, RSE, SET, Terna e altri |

| | |
|-----------------------------|--|
| 13:00-14:00 | Lunch |
| 14:00-16:00 | <p>MAIN ROOM</p> <p>Tavola Rotonda Consorzio IRIS LAB</p> <p>Evoluzione e innovazione nell'elettronica industriale: verso la mecatronica 5.0</p> <p><i>Le sfide per l'industria 5.0 ed implicazioni dell'AI nell'ambito della power conversion e della gestione dell'energia</i></p> <p>Introduzione Ugo Ghilardi - IRIS LAB presidente CEO IteMa Group</p> <p>Moderatori</p> <p>Giuseppe Tomasso - Università di Cassino - Professore Ordinario di Convertitori, Macchine e Azionamenti Elettrici Presidente del Comitato Tecnico Scientifico e del Comitato Ricerca e Innovazione del Consorzio IRIS LAB</p> <p>Natale Aiello - STMicroelectronics - Power Conversion Application Director</p> <p>Keynotes</p> <p>Alessandro Cremonesi - STMicroelectronics – Chief Innovation Officer</p> <p>Massimo Arrigoni - Itemalab - Innovation Manager</p> |
| 16:00-16:15 | Coffee Break |
| 16:15-16:45 | <p>MAIN ROOM</p> <p>Invited Speech: Lorenzo Bardelli - Direttore Divisione Ambiente ARERA</p> <p>Invited Speech: Massimiliano Atelli - Presidente Commissione PNRR-PNIEC</p> |
| 16:45-18:00 | <p>MAIN ROOM</p> <p>Tavola Rotonda</p> <p>Politiche e strategie per la decarbonizzazione: fonti rinnovabili ed elettrificazione degli usi finali dell'energia</p> <p>Moderatore: Maurizio Fauri - AEIT2024 Technical Program Chair, Italy</p> <p>Senatore Andrea De Priamo (Fratelli d'Italia)</p> <p>Senatore Michele Fina (Partito Democratico)</p> <p>Senatrice Aurora Floridia (Alleanza Verdi Sinistra)</p> <p>Senatrice Simona Petrucci (Fratelli d'Italia)</p> <p>Senatore Manfredi Potenti (Lega per Salvini Premier - Partito Sardo d'Azione)</p> <p>Senatore Roberto Rosso (Forza Italia)</p> <p>Senatore Antonio Trevisi (Forza Italia)</p> |
| 18:00-19:00 | <p>MAIN ROOM</p> <p>AEIT FOR YOUNG - <i>dedicated to Fabrizio Cattani</i></p> |
| 20:30 | Conference Dinner |
| Friday, 27 September | |
| 8:30-10:15 | <p>MAIN ROOM, Room A, Room B, Room C</p> <p>Parallel Special and Technical Sessions</p> |
| 10:15-10:30 | Coffee Break |
| 10:30-13:00 | <p>MAIN ROOM</p> <p>Case Histories</p> <p>Chair: Chiara Vergine - AEIT2024 Local Chair</p> <p><i>Con la partecipazione di:</i></p> <p>Alperia, ASG Superconductors, Casagrande, CVA Compagnia Valdostana delle Acque, Enphos, Gruppo Dolomiti Energia, Hitachi Energy, Lever, Nidec, SEL, Terna, Thytronic, Unareti e altri</p> |
| 13:00-14:00 | Lunch |
| 14:00-15:00 | <p>MAIN ROOM</p> <p>Special Session</p> <p>CHIPS/Corifi</p> |

| | |
|-------------|--|
| 14:00-15:00 | Room A, Room B, Room C Parallel Special and Technical Sessions |
| 15:00-17:00 | MAIN ROOM, Room A, Room B, Room C Parallel Special and Technical Sessions |
| 17:00-17:15 | MAIN ROOM AEIT2024 Student Contest Award AEIT2024 International Annual Conference Closing Session |

VENUE

Grand Hotel Trento

Piazza Dante 20 - Trento, Italy

Contacts:

AEIT2024 Secretariat: convegnoannuale@aeit.it

AEIT Administrative Office: amministrazione@aeit.it

AEIT Ufficio Centrale - Via M. Macchi 32 - 20124 Milano, Italy