

INTRODUCTION

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Welcome message from the organizers

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From The 11th DACH+ Conference on Energy Informatics 2022 Freiburg, Germany. 15-16 September 2022

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Dear readers,

Countries worldwide have strengthened their commitment to decarbonize the energy system at COP26 in Glasgow. This intent necessitates a massive increase in renewable power generation and the electrification of energy demand through sector coupling (e.g., heat and mobility). Over the last year, for example, the DACH countries have created roadmaps to establish hydrogen as an additional sustainable energy carrier. Energy informatics contributes to solving many of the challenges of this energy transition, by connecting various decentralized resources and by operating them intelligently.

The objective of the DACH+ conference series on Energy Informatics is to promote research, development, and implementation of information and communication technologies in the energy domain and to foster the exchange between academia, industry, and service providers in the German-Austrian-Swiss region and its neighbouring countries (DACH+). Over the past decade, it has established as the premier European conference in the field.

We received 48 submissions, covering a wide range of topics, such as electric vehicle charging management, digital carbon emission tracing, cyber-attack detection in smart grids or optimal industrial flexibility scheduling. The Technical Program Committee gave feedback on the submissions through more than 150 reviews and comments. 11 full papers, 7 short papers, and 12 extended abstracts for posters were accepted, including contributions from the co-located Energy Informatics Doctoral Workshop.

This year's conference is organized and hosted by the University of Freiburg with support from the Fraunhofer Institute for Solar Energy Systems (ISE). Funding was provided by the German Federal Ministry for Economic Affairs and Energy. We are happy to present the proceedings of the 11th DACH+ Conference on Energy Informatics 2022.

Sincerely,

Anke Weidlich (General Chair)

Dirk Neumann, Philipp Staudt, Gunther Gust (Technical Program Chairs)

Mirko Schäfer (Publication Chair)

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