

RESEARCH

Full Paper Title

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available at the end of the article

Abstract

This should not exceed 350 words. Abstracts should not cite references, figures or tables, and the use of abbreviations should be minimized. The abstract should include trial registration details, if appropriate.

Keywords: Three to ten keywords representing the main content of the article

MAIN TEXT

This should contain the body of the article, and may also be broken into subsections with short, informative headings. The main text should be arranged under appropriate subheadings typed in sentence cases.

Please pay attention to:

- Please do not number the sections.
- References must be cited in the text using consecutive numbers in square brackets. For example [1].
- Do not include footnotes or text boxes.
- Please use sentence case for titles, headings and subheadings, with no unnecessary initial capital letters.
- Avoid including long URLs in the main body of the text, put them in the reference section with the name of the website.
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- Please place figures and tables in the text where needed. Do NOT place figures or tables at the end of the document.
- Figures should be numbered and mentioned in the text. An example is shown in Figure 1.
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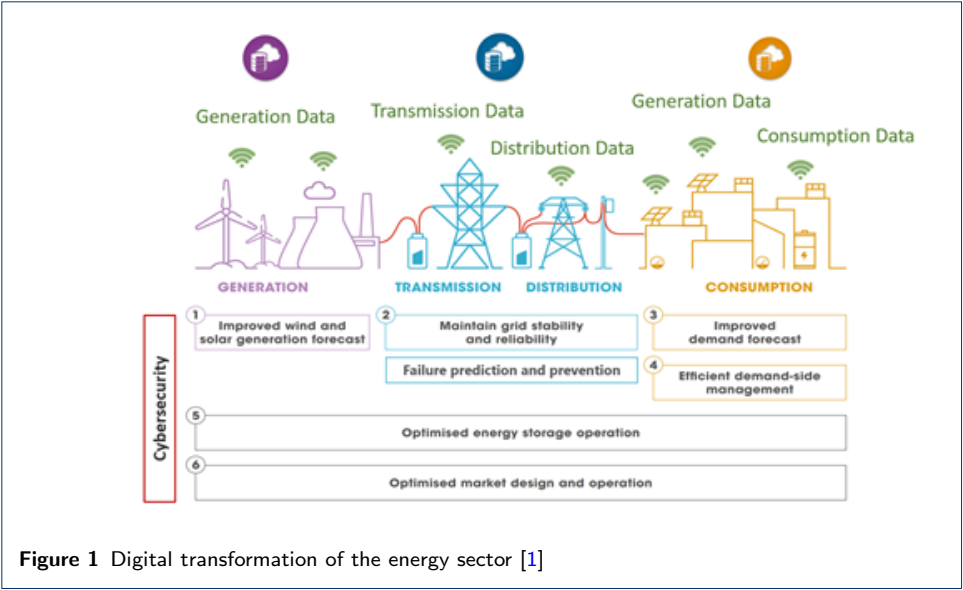


Figure 1 Digital transformation of the energy sector [1]

Preparing tables

Tables should be numbered and cited in the text in sequence using Arabic numerals with single line space (e.g., shown in Table 1). Tables should not be embedded as figures or spreadsheet files but should be formatted using the ‘Table object’ function in your word processing program.

Note (example of sub sub heading)

Larger datasets, or tables too wide for the A4 landscape page, can be in the appendix before the REFERENCES section.

Table 1 Themes of the full papers from Energy Informatics.Academy(EI.A) Asia 2021 conference [2]

Theme	Paper title
Energy systems	<ul style="list-style-type: none"> • A Scoping Review of Deep Neural Networks for Electric Load Forecasting • Advanced Voltage Control Method for Improving the Voltage Quality of Low-Voltage Distribution Networks with Photovoltaic Penetrations • Optimization of district heating production with thermal storage using mixed-integer nonlinear programming with a new initialization approach
Energy in buildings	<ul style="list-style-type: none"> • Climatization and Luminosity Optimization of Buildings Using Genetic Algorithm, Random Forest, and Regression Models • A QR code based framework for auto-configuration of IoT sensor networks in buildings • A Digital Twin Framework for Improving Energy Efficiency and Occupant Comfort in Public and Commercial Buildings
Energy communities	<ul style="list-style-type: none"> • Software toolchain to enhance the management and integration of a sustainable campus model • Web-based platform for the management of citizen energy communities and their members • An Overview of Digitalization for the Building-to-Grid Ecosystem
Electric Vehicles	<ul style="list-style-type: none"> • Joint Optimal Allocation of Electric Vehicle Charging Stations and Renewable Energy Sources Including CO₂ Emissions • A generic agent-based framework for modeling business ecosystems: a case study of electric vehicle home charging • Electric Vehicles as Distribution Grid Batteries: A Reality Check • Methodology for identifying technical details of Smart Energy Solutions and Research Gaps in Smart Grid: An Example of Electric Vehicles in the energy system
Energy in industry	<ul style="list-style-type: none"> • Greenhouse Industry 4.0 – Digital Twin Technology for Commercial Greenhouses • A Multi-objective Optimization Platform for Artificial Lighting System in Commercial Greenhouses • Agent Based Coordination Protocol for System of Cyber-Physical Systems
Energy markets	<ul style="list-style-type: none"> • Local Energy Markets - An IT-architecture Design • Industrial consumers' electricity market participation options: A case study of an industrial cooling process in Denmark • Analysis and forecasting of crude oil price based on the variable selection-LSTM integrated model
Energy policy & regulation	<ul style="list-style-type: none"> • Evaluating the CO₂ abatement effects of low-carbon city policy in China: A quasi-natural experiment • Digitalisation Potentials in the Electricity Ecosystem: Lesson learnt from the Comparison between Germany and Denmark

LIST OF ABBREVIATIONS

- If abbreviations are used in the text they should be defined in the text at first use, and a list of abbreviations should be provided.
- The list of abbreviations should be placed here (before the DECLARATIONS section).
- Please do not use tables in this section.

This section should be, for example:

EI.A: Energy Informatics.Academy

MAS: Multi-agent system

DECLARATIONS

The declaration section will not be counted as the full text All manuscripts must contain the following sections with the following sequence, under the heading 'Declarations':

Ethics approval and consent to participate

Manuscripts reporting studies involving human participants, human data or human tissue must include a statement on ethics approval and consent (even where the need for approval was waived), and include the name of the ethics committee that approved the study and the committee's reference number if appropriate. If it is not relevant to the paper, please write 'Not applicable'

Consent for publication

If your manuscript contains any individual person's data in any form (including any individual details, images or videos), consent for publication must be obtained from that person, or in the case of children, their parent or legal guardian. All presentations of case reports must have consent for publication. If it is not relevant to the paper, please write 'Not applicable'

Availability of data and materials

All manuscripts must include an 'Availability of data and materials' statement. Data availability statements should include information on where data supporting the results reported in the article can be found including, where applicable, hyperlinks to publicly archived data sets analysed or generated during the study. By data we mean the minimal dataset that would be necessary to interpret, replicate and build upon the findings reported in the article. We recognise it is not always possible to share research data publicly, for instance when individual privacy could be compromised, and in such instances data availability should still be stated in the manuscript along with any conditions for access. If it is not relevant to your paper, please write 'Not applicable'.

Competing interests

All financial and non-financial competing interests must be declared in this section. See our editorial policies for a full explanation of competing interests. If you are unsure whether you or any of your co-authors have a competing interest, please contact the editorial office. Please use the authors' initials to refer to each authors' competing interests in this section. If you do not have any competing interests, please state "The authors declare that they have no competing interests" in this section.

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References

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1. Jørgensen B. Keynote speech: Key research fields in energy Informatics; 2021. Accessed 26 Jun 2021. In: 1st Energy Informatics.Academy Asia Ph.D. Workshop. Available from: <https://www.youtube.com/watch?v=3ohCuvFY6DI>.
2. Ma Z, Jørgensen B, G C, et al. Welcome message from the organizers at the 1st Energy Informatics; 2021. Energy Inform 4, 45 (2021). Academy Conference Asia (EI.A Asia 2021). Available from: <https://doi.org/10.1186/s42162-021-00147-7>.