



Inaugural Editorial of the *ICCK Transactions on Electric Power Networks and Systems*

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Abstract

ICCK Transactions on Electric Power Networks and Systems is an academic journal devoted to research and further advancement of knowledge on phenomena related to electric power systems that connect electricity generation with consumers through transmission and distribution networks. Specifically, this journal will deal with the modeling and analyses of various problems related to the generation, transmission, distribution, consumption and trade of electricity. The concepts of electric power system security, safety, stability, flexibility, reliability, restoration, resilience, planning, operation, control and protection will be interrelated and considered by authors from different perspectives. The journal seeks to publish original, innovative and high-quality research papers that provide links between theory and applications, addressing the challenges of maintaining and improving the performance parameters of electric power networks and systems, as well as their components and devices. The papers addressing various research gaps in the fields of renewables, electric vehicles, drives, energy storage, power electronics, electricity market and wireless

electricity transmission using analytical methods, numerical techniques, statistics, meta-heuristics and artificial intelligence are also welcome. The editors invite original research papers, reviews, letters, technical reports and case studies dealing with normal, optimal, emergency and fault operating regimes of electric power networks and systems. All submissions will undergo a fair and rigorous peer-review process to ensure the highest quality of publications. This journal aims to be a valuable source of information for scientists, researchers, industry professionals, and engineers working in an increasingly knowledge-based, interconnected and technology-driven world.

Keywords: electric power component, electric power system, electricity distribution network, electricity transmission network.

1 Introduction

Searching the database of scientific journals of the Consortium for Coordinated Acquisition of Serbian Research Libraries (KoBSON) [1] using the key words "network", "system" and "electrical engineering" and the field "Electrical & Electronic Engineering", as well as checking the scopes of those journals, revealed the information that 27 journals deal with electric power



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networks and/or electric power systems, and that none of the journals contain both the terms "network" and "system" in the title at the same time. The KoBSON database [1] contains only scientific journals of categories Q1-Q3 that have a certain impact factor. This served as the motivation for choosing the title *ICCK Transactions on Electric Power Networks and Systems* for this journal.

Specifically, the review covered the aims and scopes of the following journals:

- Sustainable Energy, Grids and Networks [2],
- Protection and Control of Modern Power Systems [3],
- IEEE Transactions on Power Systems [4],
- Journal of Modern Power Systems and Clean Energy [5],
- CSEE Journal of Power and Energy Systems [6],
- International Journal of Electrical Power and Energy Systems [7],
- IEEE Systems Journal [8],
- Electric Power System Research [9],
- CES Transactions on Electrical Machines and Systems [10],
- International Transactions on Electrical Energy Systems [11],
- IET Energy Systems Integration [12],
- Electric Power Components and Systems [13],
- International Journal of Emerging Electric Power Systems [14],
- International Journal of Power and Energy Systems [15],
- Computers and Electrical Engineering [16],
- Electrical Engineering [17],
- IEEE Canadian Journal of Electrical and Computer Engineering [18],
- Journal of Electrical Engineering and Technology [19],
- Electrical Engineering and Electromechanics [20],
- Turkish Journal of Electrical Engineering and Computer Sciences [21],
- Iranian Journal of Science and Technology: Transactions of Electrical Engineering [22],
- Journal of Electrical Engineering-Elektrotechnicky Casopis [23],
- Archives of Electrical Engineering [24],
- Advances in Electrical and Electronic Engineering [25],
- Jordan Journal of Electrical Engineering [26],
- Electrical Engineering in Japan [27], and
- Elektronika Ir Elektrotehnika [28].

All these journals more or less cover the topics that are generalized and roughly listed in the abstract of this editorial. However, none of these journals include in its scope modeling and/or analysis of the performance of electric power networks and systems, as well as their components and devices, after collapses due to local war conflicts, natural disasters or some kind of sanctions. The journal scopes did not mention the problems of incorporating new technologies of renewable energy sources and Green House Gases (GHG) emissions in such electric power networks and systems, as well as other problems relating to the generation, transmission, distribution, consumption and trade of electricity in such circumstances. In addition to all traditional topics and problems related to electric power networks and systems, the scope of this academic journal will also cover the given editorial gaps. Special attention will be paid to discussing these issues from the perspective of relevant national and international standards.

In the following sections of this editorial, the vision for this academic journal, aims, scope, conclusion and references are provided. The KoBSON database and the aims and scopes of academic journals dealing with electric power networks and systems were used as references for writing this editorial.

2 Vision for the Journal

Editor-in-Chief of *ICCK Transactions on Electric Power Networks and Systems* believes that the field of electric power networks and systems in general is moving towards the generation of electricity with net-zero GHG emissions, the threat of the collapse of existing electric power networks and systems due to local war conflicts and the inclusion of new technologies of renewable energy sources in electric power networks

and systems. This will lead to new challenges in the field of microgrid and network researches, namely: resilience-oriented islanding operation, quick reconfigurations, inclusion of innovative electricity generation units, application of artificial intelligence, cyber-attacks, and so on.

Editor-in-Chief will work with the members of the editorial board according to the principle of continuous partnership cooperation and agreement, avoiding unilateral decisions in critical situations. In addition, continuous contacts will be maintained with all the editors via email, and online meetings will be organized for the editors. Each new editor will be instructed in the tasks and rules of the game of editorial work, by email or in an online meeting.

All the editors will maintain the quality of the submissions through advertising on the official web page of the journal, highlighting the modern topics and directions related to the field of electric power networks and systems, as well as discussing them with the authors. The quality of the submissions will be increased by giving instructions to the authors by Editor-in-Chief and other editors before forwarding the submissions to reviewers and the like. Editor-in-Chief will encourage the editors to follow the Committee on Publication Ethics (COPE) Core Practices and to refer peer reviewers to the COPE ethical guidelines for peer reviewers where relevant.

The most important thing for working with authors is to answer their questions as quickly as possible and give them the necessary instructions in order to solve their problems or doubts. For instance, if their submission thematically does not correspond to the scope of the journal, it should be returned as soon as possible with a decent explanation, and so on.

3 Aims and Scope

3.1 Aims

ICCK Transactions on Electric Power Networks and Systems aims to publish original, innovative and high-quality research papers that provide links between theory and applications, addressing the challenges of maintaining and improving the performance parameters of electric power networks and systems, as well as their components and devices. Specifically, this journal publishes original research papers, reviews, letters, technical reports and case studies related to the generation, transmission, distribution, consumption and trade of electricity.

3.2 Scope

The scope of *ICCK Transactions on Electric Power Networks and Systems* includes, but is not limited to:

- Modern electric power systems,
- Electricity generation,
- Electricity transmission,
- Electricity distribution,
- Electricity consumption,
- Electricity market,
- Electric power components,
- Power electronics,
- Electric power equipment, and
- Renewable energy sources and technologies.

4 Conclusion

The conclusions that can be drawn from the previous sections are as follows:

- The title of the academic journal *ICCK Transactions on Electric Power Networks and Systems* is new, original and attractive for readers dealing with power engineering problems.
- The vision for *ICCK Transactions on Electric Power Networks and Systems* is based on actual events, circumstances and trends.
- *ICCK Transactions on Electric Power Networks and Systems* will deal with traditional topics from the field of electric power networks and systems and will address editorial gaps that are not covered with the scopes of other specialized journals.
- *ICCK Transactions on Electric Power Networks and Systems* will follow the COPE Core Practices, as well as their ethical guidelines.
- In the nearest future, *ICCK Transactions on Electric Power Networks and Systems* should be a highly-cited academic journal.

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Conflicts of Interest

The author is the Editor-in-Chief of *ICCK Transactions on Electric Power Networks and Systems*. This Inaugural Editorial was not externally peer reviewed and was accepted directly by the publisher. The Editor-in-Chief was not involved in the handling or decision-making of this manuscript.

Ethical Approval and Consent to Participate

Not applicable.

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