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## Dear authors, Dear readers,

Welcome to the twenty-second edition of the Journal of Information Technology and Applications (JITA), published by Pan-European University APEIRON Banja Luka.

The Journal of Information Technology and Application (JITA) publishes quality, original papers that contribute to the methodology of IT research as well as good examples of practical applications.

IITA journal is a scientific and professional information magazine that aims to promise a forum for engineering, research and academics, the university and industry to showcase their scientific careers and whether it will make them learn and explore.

JITA offers the perfect convenience to share scientific resources, share your own research highlights, and innovate science with the entire scientific world.

Our mission is to promote and establish cooperation and dialogue between academic institutions and research institutes belonging to the field of information technology, which are as follows:

- Promoting the best research output in the academic field.
- Introducing computer scientists
- with advanced modern technological achievements.
- Support in the professional training of IT staff. Announcement of newspapers in the most advanced information technologies.

Journal of Information Technology and Applications is a scholarly open access, peer-reviewed, fully refereed journal, which provides a platform for scientists and academicians all over the world to discuss new issues and developments in different areas of informatics.

The topics covered by this journal include, but are not limited to:

- Advances in Networks
- Artificial Intelligence
- **Intelligent Systems**
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We can proudly point out that IITA started with the selection of quality articles and has continued as such to this day. Members of the review team come from all continents, as well as the paper authors. With two independent "blind" reviews, we manage to select the highest quality articles and publish them afterwards.

## Gratitude

On behalf of the Editorial Board, we would like to thank the authors for their high quality contributions, and also the reviewers for the effort and time invested into the preparation of the Journal of Information Technology and Applications.

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## **Conflicts of Interest**

The author declares no conflict of interest.

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