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Dear readers,

Welcome to the tenth year of issue of the Journal of Information Technology and Applications (JITA), published by Pan-European University APEIRON, Banja Luka.

JITA continues to publish high-quality, original papers that contribute to the application of information technology (IT) methodology and case studies.

Our mission is to promote and enhance cooperation and dialogue in academia and institutions dedicated to the advancement of science and information technology, which involves the following:

- Promoting best practice standards in the field of academic IT education.
- Improvement of professional training of IT staff.
- Sharing the world's advanced IT achievements.
- Announcement of the latest and most advanced information on upcoming solutions.

JITA considers that such international cooperation can help students, researchers and scientists to learn from each other and encourages the dissemination of scientific and information knowledge.

JITA intends to achieve the mentioned goals and gain international visibility through the organization of the twelfth annual international conference ITEO (Information Technologies for E-education) and interaction with public and private universities from all parts of the world.

In this issue, JITA presents various articles.

The paper *Some Possibilities of Computer Linguistics on an Example of Analysis of Novels* shows some aspects of statistical analysis of three well-known novels. The goal of the analysis is to point to mutual similarities and differences of statistical data in these texts and to compare them with the up-to-date findings in that field.

In the second paper, authors have presented the possibility of correcting the positions of telecommunication facilities obtained using the GPS. Authors have shown that using permanent stations can achieve the required level of spatial position correction.

The third article focuses on the components and principles of expert systems.

Ambient intelligence will be presented in the fourth paper as a result of the artificial algorithm neural networks, through the following contexts: e-learning environment, identification, and security. The key role in raising students' achievements as well as competency levels belongs to modern information technology that works towards creating ambient intelligence. It is also executed through the concept of e-learning onto one of the convenient learning management platforms.

The fifth paper presents the models used for creating intelligent systems based on artificial non-chromic networks that indicate to the teachers which educational as well as teaching activities should be corrected. Results regarding data processing in artificial neural networks specifically indicate a specific activity that needs to be maintained, promoted, or changed in order to improve students' abilities and achievements.

The topic of the sixth paper is banking. Banks are known as monetary management institutions because they deal with money. Instead, with the participating and implementation of new Virtual Assistant powered with AI and Machine Learning technology in the banking sector, the institutions are again using the legacy system or may be bound to use the legacy system.

Finally, the subject of the seventh research is CNC machine programming.

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Conflicts of Interest

The authors declare no conflict of interest.

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