EDITORS:

ZORAN AVRAMOVIĆ, PhD
EDITOR-IN-CHIEF

GORDANA RADIĆ, PhD

DUŠAN STARČEVIĆ, PhD

Dear authors,
Dear readers,

Welcome to the twenty-fifth edition of the Journal of Information Technology and Applications (JITA), published by Pan-European University APEIRON Banja Luka. The JITA publishes quality, original papers that contribute to the methodology of IT research as well as good examples of practical applications.

The content of this issue of JITA consists of seven papers. The first paper, entitled "Basic Mathematical ATM Model for Time Based Navigation In U-Space Environment" by V. Milosevic states that Time Based Navigation Mathematical model is a navigational tool which allows instant management of distance, speed and time on more effective way. Time Based Navigation Mathematical model is only different way of use of this measuring tool where every aircraft on its route has precise navigational time clock for accurate destination arrival.

The next paper is "Linear wireless sensor networks as the physical layer of smart street parking systems" by A. Ahmetspahic, G. Popovic and G.Djukanovic. In this paper, the authors described the characteristics of these networks, the problems that are specific, as well as possible applications, and they are pay special attention to the application of LWSN in smart street parking lots

The third article "Comparative Analysis of Relational and Non-Relational Databases" by P.Ranilovic, D.Marinkovic, N.Sikanjic presents the results of research into the use of relational and non-relational databases, as well as their comparative analysis. A theoretical overview of the comparative analysis by different segments of relational and non-relational databases is presented.

In the paper "Aircraft Performance Modeling with Polynomial Function using Small Variable Units Technique", V. Milosevic outline the use the Small Variable Units Technique as effective method to transfer nomograms' data in polynomial equitation which can give us different mathematical models of an aircraft performance. In combination with time based navigation, digitalization of aerodynamical characteristic will be a step forward to Continuous Climb and Descent Trajectories, as the most optimal one.

In the paper "Panel analysis in function of Measuring the Impact of higher education on international competitiveness of the Western Balkan Countries" by M.Landika, Z.Racic and B.Kondic they claim that expressing and measuring the results of the educational process is a continuous and complex process, and requires the application of adequate methodology, such as a panel analysis model.

This paper "Digitalization of Sound using Pulse Code Modulation (PCM)" from the authors S.Tomic and D.Drljaca focuses on Pulse Code Modulation (PCM) as a technology for digitizing analog signals. PCM is a widely used technique that enables precise encoding and transmission of analog information through digital pulse signals.

The last article in this issue "Analysis of public administration, effects and impact of digitalization and interoperability in public administration" by J.Dzino, S.Dzino and D.Injac presented parts of public administration as well as the influences of public administration. The effects and influence of digitalization and interoperability in institutions in B&H, strategic approach to the development of public administration, the relationship between Vision and Technology as an indicator of business success in public administration are given.

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 JITA

Acknowledgments

We would like to thank many who have read and/or commented on earlier versions of this journal including Leonid A. Baranov, Yuri M. Inkov, Efim N. Rozenberg, Leonid A. Mylnikov, Katarina Držajić Laketić and Dražen Marinković. However, any errors or shortcomings remain my full responsibility.

Conflicts of Interest

The author declares no conflict of interest.

Editor-in-Chief, Zoran Avramović
zoran.z.avramovic@apeiron-edu.eu
Editors, Gordana Radić, Dušan Starčević