

Vol. 5. Issue 2, 2019

ISSN: 2453-7314

Central European Researchers Journal

A WORD OF WELCOME FROM THE EDITORS

Dear Colleagues, Readers and Authors, We expect that the journal will be considered as the opportunity facility to support of investigations of young researchers and PhD student in future. It is an essential journal's mission.

With best wishes

Editors

Central European Researchers Journal. Volume 5. Issue 2

Editor-in-chief: Kharchenko Vyacheslav, Zaitseva Elena

Editorial Board: Androulidakis Iosif, Belotserkovsky Alexei, Bezobrazov Sergei, Cariow Aleksandr, Cimrak Ivan, Dmytrychenko Mykola, Drahansky Martin, Drozd Alexander, Frenkel Ilia, Filatova Darya, Frigura-Iliasa Flaviu Mihai, Kachurka Pavel, Khakhomov Sergei, Kor Ah-Lian, Koshkin Gennady, Lapitskaya Natalia, Levashenko Vitaly, Liauchuk Viktar, Lukac Martin, Lukashevich Marina, Matiasko Karol, Melnychenko Oleksandr, Nedzved Alexander, Oliinyk Andrii, Pancerz Krzysztof, Ram Mangey, Slavinskaya Elena, Stankevich Sergey, Subbotin Sergey, Tatur Michail, Vojnar Tomas, Volochiy Bogdan, Yakovyna Vitaliy, Zhadanos Oleksandr, Zhivitskaya Helena.

Address of the editorial office: Central European Researchers Journal - editorial, Faculty of Management Science and Informatics, University of Zilina, Univerzitna 8215/1, 01026, Zilina, Slovakia, editorial@ceres-journal.eu

Each paper was reviewed by reviewers.

Publisher: JMTM, s.r.o., Sad SNP 8, 010 01, Zilina, Slovakia, publisher@jmtm.sk

Published biannually

ISSN: 2453-7314

December 2019

CONTENTS

<i>Negm Eldin Mohamed Shawky</i>	
Improving the Accuracy of GPS Tracking Multiple Drones based on MCMC Particle Filter	1
<i>Roberto Franchini</i>	
An Automatic Remote Heart Monitoring Based on Arduino	14
<i>K.L.A.N.B. Senevirathne, W.M.I.G.D.N.B. Warnasooriya, P.K.H.D. Sandeepani, N. Vithana</i>	
Smart Shopping Cart System	22
<i>Aleksei Vambol</i>	
Application of MATLAB in Practical Teaching of Post-Quantum Cryptography	31
<i>Jan Bohacik</i>	
Design of an Android Application using a Tool for Decision-making Support	40
<i>Elena Zaitseva, Radim Bris, Jaroslav Majernik, Krzysztof Pancerz, Zdenek Vintr, Marianna Zichar</i>	
Special Discussion Section and Exhibition (Industrial Centre) in frame of the International Conference on Information and Digital Technologies	50
<i>Denisa Macekova, Miroslav Kvassay, Elena Zaitseva</i>	
Concept of Interdisciplinary Research in Biomedical Informatics and its Transformation into a New Study Program	54
<i>Leonid Ozirkovskyy, Bohdan Volochiy, Andriy Mashchak, Ihor Kulyk</i>	
Adequacy Increase of Assessment of Minimal Cut Sets Considering Latent Failures	58
<i>Miroslav Kvassay, Jozef Kostolny</i>	
Enumeration of Minimal Cut Vectors for Performing Reliability Analysis Based on Multi-Valued Decision Diagrams	67