

Vol. 4. Issue 2, 2018

ISSN: 2453-7314

Central European Researchers Journal



A WORD OF WELCOME FROM THE EDITORS

Dear Colleagues, Readers and Authors,

The members of publishing team of the journal CERES are glad to present to you next number. We would like to recall that the Central European Researchers Journal has been created under the CERES project titled as "Centers of Excellence for young REsearchers" (ref.no.: 544137-TEMPUS-1-2013-1-SK-TEMPUS-JPHES). This fact causes the journal politic and publications specifics and context. The journal is established as the opportunity facility to support of investigations of young researchers and PhD student. It is an essential journal's mission. The project is finished a year ago and the journal was in new conditions. Of course, the mission of the journal will be saved and continued. But new environment and conditions for the journal development cause reorganization of the publishing team. The Editorial Board will be reorganized at the first step. The journal scope will be modified too. We hope that this reorganization will improve the journal popularisation and its status.

We thank all authors and readers who were with the journal CERES. Your help is a journal sustainability. We thank all reviewers. Your work was appreciated and useful for the journal formation. The list of reviewers is published for every year in the second number of journal (you can find it in the first separated file of number under title "Front Cover/ Editorial Board/ Table of Contents"). Our special thanks to the technical editor Dr. Jozef Kostolny from University of Zilina (Slovakia). Dr. Jozef Kostolny created the journal design. He been elaborated and maintained the technical platform, prepared and uploaded all journal's numbers.

We believe that new publishing team will improve the journal and all authors and readers will stay with the journal.

With best wishes

Prof. Vyacheslav Kharchenko
Prof. Elena Zaitseva

Central European Researchers Journal. Volume 4. 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 Viktor, Lukac Martin, Lukashevich Marina, Matiasko Karol, Melnychenko Oleksandr, Nedzved Alexander, Oliinyk Andrii, Pancarz 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, Univerzinta 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 2018

REVIEWERS IN 2018

Adzinets Dzmitry, Belarusian State University of Informatics and Radioelectronics, Belarus

Bohacik Jan, University of Zilina, Slovakia

Drozd Alexander, National Polytechnical University, Odessa, Ukraine

Frigura-Iliasa Flaviu Mihai, Polytechnic University of Timisoara, Romania

Kharchenko Vyacheslav, National Aerospace University KhAI, Ukraine

Kostolny Jozef, University of Zilina, Slovakia

Kvassay Miroslav, University of Zilina, Slovakia

Levashenko Vitaly, University of Zilina, Slovakia

Liauchuk Viktor, Gomel State University, Belarus

Macekova Denisa, University of Zilina, Slovakia

Matiasko Karol, University of Zilina, Slovakia

Nedzved Alexander, Belarusian State University, Belarus

Oliinyk Andrii, Zaporozhye National Technical University, Ukraine

Piestova Irina, Scientific Centre for Aerospace Research of the Earth, National Academy of Sciences of Ukraine, Ukraine

Stankevich Sergey, Scientific Centre for Aerospace Research of the Earth, National Academy of Sciences of Ukraine, Ukraine

Vaclavkova Monika, University of Zilina, Slovakia

Yakovyna Vitaliy, Lviv Polytechnic National University, Ukraine

Zaitseva Elena, University of Zilina, Slovakia

Zhadanos Oleksandr, National Metallurgical Academy of Ukraine, Ukraine

Zhivitskaya Helena, Belarusian State University of Informatics and Radioelectronics, Belarus

CONTENTS

<i>Uladzislau Beizerau</i>	
Trends of the development of internationalization and integration in the World educational space	1
<i>Peter Sedlacek</i>	
Tool for reliability analysis of reversible logic circuits	10
<i>Andrej Forgac</i>	
Methods of Human Reliability Analysis	17
<i>Oleg Maslenko, Aleksandr Kondratov</i>	
Remote sensing satellite virtual constellation optimizing with target recognition probability	22
<i>Wateen Aliady</i>	
Investigating the Role of Preprocessing and Attribute Selection Methods Towards the Performance of Classification Algorithm on News Dataset	28
<i>Sergei Borovikov, Evgeni Shneiderov</i>	
Reliability Prediction of Electronic Devices, Considering the Gradual Failures	41
<i>Ahmed Abu Hammad</i>	
The Impact of Text Pre-processing and Term Weighting on Al-Hadith Al-Shareef Classification	48
<i>Ahmed Abu Hammad</i>	
Mining Educational Data to Analyze Students' Performance (A Case with University College of Science and Technology Students)	56
<i>Zuzana Kresanova, Jozef Kostolny</i>	
Comparison of Software for Medical Segmentation	66