



UDC 004:005:3

ISSN 1846-3312  
e-ISSN 1846-9418

*Journal of  
Information and  
Organizational  
Sciences*

## CONTENTS

<i>From the Editor</i>	V
<b>Blaženka Divjak, Petra Peharda, Nina Begičević:</b> <b>Social network analysis of Eureka project partnership in Central and South-Eastern European regions</b> Original Scientific Paper	163-173
<b>Marko Lacković:</b> <b>An Approach to Optical Network Design Using General Heuristic Optimization Framework</b> Original Scientific Paper	175-194
<b>Renata Mekovec:</b> <b>Online privacy: overview and preliminary research</b> Original Scientific Paper	195-209
<b>Katarina Tomičić-Pupek:</b> <b>Determining semantic similarity of IT systems based on the comparison of their graphical data models</b> Preliminary Communication Article	211-220
<b>Janko Žufić, Damir Kalpić:</b> <b>Towards more efficient e-learning, intelligence and adapted teaching materials</b> Original Scientific Paper	221-237

UDC 004:005:3

ISSN 1846-3312

e-ISSN 1846-9418

#### Publisher

University of Zagreb  
Faculty of Organization and Informatics  
Varaždin  
Pavlinska 2  
HR-42 000 Varaždin, Croatia

#### Editor

Neven Vrček, University of Zagreb, Faculty of  
Organization and Informatics, Varaždin, Croatia

#### Editorial Board

Boris Aurer, University of Zagreb, Croatia  
Josip Brumec, University of Zagreb, Croatia  
Goran Bubaš, University of Zagreb, Croatia  
Marijan Cingula, University of Zagreb, Croatia  
Leo Budin, University of Zagreb, Croatia  
Ivica Crnkovic, Mälardalen University, Sweden  
Vlatko Čerić, University of Zagreb, Croatia  
Mirko Čubrilo, University of Zagreb, Croatia  
Blaženka Divjak, University of Zagreb, Croatia  
Matilda Drozdova, University of Žilina, Slovakia  
Vesna Dušak, University of Zagreb, Croatia  
María José Escalona, University of Sevilla, Spain  
Joaquim Filipe, Polytechnic Institute of Setúbal,  
Portugal  
Matjaz Gams, Jozef Stefan Institute, Slovenia  
Tihomir Hunjak, University of Zagreb, Croatia  
Maria Jakovljevic, University of the Witwatersrand,  
South Africa  
Dragutin Kermek, University of Zagreb, Croatia  
Božidar Kliček, University of Zagreb, Croatia  
Douwe Korff, London Metropolitan University,  
United Kingdom  
Zdravko Krakar, University of Zagreb, Croatia  
Michael Lang, National University of Ireland, Ireland

#### Editor-in-Chief

Tihomir Hunjak, University of Zagreb, Faculty of  
Organization and Informatics, Varaždin, Croatia

Alen Lovrenčić, University of Zagreb, Croatia  
Mirko Maleković, University of Zagreb, Croatia  
Dunja Mladenic, Jozef Stefan Institute, Slovenia  
Pavle Mogin, Victoria University of Wellington, New  
Zealand  
Guenter Mueller, University of Freiburg, Germany  
Jan Paralic, Technical University Kosice, Slovakia  
Algirdas Pakstas, London Metropolitan University,  
United Kingdom  
Rimantas Petrauskas, Mykolas Romeris University,  
Lithuania  
Roman Povalej, Institute AIFB, University of Karlsruhe,  
Germany  
Wolf Rauch, Universität Graz, Austria  
Slobodan Ribarić, University of Zagreb, Croatia  
Tefko Saračević, State University of Jersey, United  
States  
Vjeran Strahonja, University of Zagreb, Croatia  
J. Douglas Toma, University of Georgia, United States  
József K. Tar, Institute of Intelligent Engineering  
Systems, John von Neumann Faculty of Informatics,  
Hungary  
Mladen Vouk, North Carolina State University, United  
States  
Žugaj Miroslav, University of Zagreb, Croatia

#### Publishing Board

Darko Grabar, Goran Hajdin, Renata Horvatek,  
Bernarda Kos, Alen Lovrenčić, Dijana  
Plantak Vukovac, Kornelije Rabuzin

ISSN 1846-3312  
e-ISSN 1846-9418

[www.jios.foi.hr](http://www.jios.foi.hr)

## Proofreading

Authors

## Cover and Layout Design

ri mo dizajn

## Copyeditor and Computer Type Set

Goran Hajdin

## Printing

TIVA Tiskara Varaždin, Croatia

## Contact

Faculty of Organization and Informatics, Varaždin

Pavlinska 2, HR-42000 Varaždin, Croatia

Tel. +385 42 390 800, fax +385 42 213 413,

E-mail: [jios@foi.hr](mailto:jios@foi.hr) (Correspondence Mail)

[jios-pub@foi.hr](mailto:jios-pub@foi.hr) (Publishing Board)

URL: [www.jios.foi.hr](http://www.jios.foi.hr)

## Principal Contact

Neven Vrček

Faculty of Organization and Informatics, Varaždin

Pavlinska 2, HR-42000 Varaždin, Croatia

Tel. + 385 42 390 827

Fax: + 385 42 213 413

E-mail: [neven.vrcek@foi.hr](mailto:neven.vrcek@foi.hr)

## Subscription Information

JIOS is published twice per year.

Printed in 500 copies.

Subscription rate per volume for printed edition:  
100 HRK (15€).

To subscribe, please contact the publisher at  
[jios-pub@foi.hr](mailto:jios-pub@foi.hr).

JIOS is published with financial support of the  
Ministry of Science, Education and Sport of the  
Republic of Croatia.

## JIOS is indexed in the following databases

CSA Technology Research Database

Computer and Information Systems Abstracts

DOAJ

INSPEC

LISA

OAIster

VINITI RAN