

# Editorial

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Dear Readers:

Welcome to our regular edition of CIT devoted to the 2012 ITI (Information Technology Interfaces) Conference. The following 12 papers were selected from a list of 83 contributions originally published in the ITI 2012 Conference Proceedings (IEEE Catalog Number CFP12498-PRT).

As in previous years, papers were selected after having received high ratings from both of their respective international reviewers and as being representative of the broad scope character of the ITI Conference in terms of topics solicited over these last 4 decades.

Out of 10 conference topics, eight are represented by at least one paper. The paper order parallels the Proceedings' topic order starting with a paper selected from the 2012 Special Topic ("Academic and Business Collaboration: Innovative BI") and ending with a paper from the "Theory of Computing and Computing Methodologies" topic.

The Special Session/Topic is in our assortment of ITI contributions represented by the paper written by Tomas Skersys, et.al. entitled "The Enrichment of BPMN Business Process Model with SBVR Business Vocabulary and Rules". The authors discuss a gap between BP modeling and the specification of business vocabularies and rules, and offer a solution for closing this gap.

Two papers are included under the topic "Networking, Grids, Middleware and Distributed Platforms". In the paper written by Arne Koschel, et al. an approach for the integration of asynchronous messaging into OSGi is investigated. In the other paper under the same topic the authors Plamen Z. Zahariev, et al. propose "An Approach towards Balanced Energy Consumption in Hierarchical Cluster-based Wireless Sensor Networks".

The next topic "Knowledge Management and Collaboration Systems" includes two papers: Alexandra Moraru and Dunja Mladenić offer a methodology for providing richer data i.e., data with more meaning by way of enriching sensor descriptions and measurements. Dmitry G. Korzun, et al. (in the other paper from the same topic) present the implementation and evaluation of a proactive personalized mobile multi-blogging service on the Smart-M3 platform.

This year's "Technology Enhanced Education" topic is represented by two papers. In a paper by Kay I Penny and Darko Dukic on "E-learning Participation in Higher Education: A Study of Scottish and Croatian Students" the authors compare the usage of e-learning activities by students in Scotland with those in Croatia. Kruno Golubić and Jadranka Lasić-Lazić, in the other paper selected from the same topic, describe the results of an on-line survey of students and staff of higher-education institutions, designed to measure their opinions regarding the need for the presence of higher education institutions on social networks.

A paper by Christian Bourret, entitled "Issues of Information and Communication for New Managerial Approaches: the Challenges of the French Health System" was selected from this year's "Information Technology in Business and Government" topic.

The topic "Data Mining, Statistics and Biometrics" includes two selected papers. In a paper by Sandra M. Aleixo and J. Leonel Rocha the authors discuss a dynamical approach for studying the behavior of generalized population growth models from Beta(p,2) densities with strong Allee effect. Dijana Grd, et al. (in the other paper selected from the same topic) discuss the results of a

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study investigating the effects of season, highway section and side on heavy metals concentrations in wastewater along Croatian highways.

In the section “Modeling, Simulation and Optimization” presented was a contribution by G. Mecariello, L. Della Ragione, M. A. Costagliola, M. V. Prati “Evaluation of Emission Factors for New Technology S.I. Euro 4 Cars” which in the best possible way represents the importance of scientific interfaces between mathematics (statistics), engineering, technology development and public health.

Lastly, a paper by Pance Ribarski and Ljupcho Antovski “Mixnets: Implementation and Performance Evaluation of Decryption and Re-encryption Types” was selected from this year’s “Theory of Computing and Computing Methodologies” topic. The authors propose several mixnet algorithms, compare their performance under different scenarios, and offer a guideline for selecting the most suitable mixnet type for a given set of parameter values.

We hope that you’ll find this selection of articles informative, interesting, and motivating. Again this year, ITI 2012 tried to provide a broad scientific program and to promote stimulating professional interaction and managed to attract participants from 28 different countries. We will continue to promote ITI Best Student Paper Competition, with stimulating prizes, so as to encourage all young scholars/researchers worldwide, to offer their papers for Competition.

This year’s selection of topics has identified strong interest and enthusiasm for publishing in these areas, as is reflected in the selection of articles for inclusion in this edition of CIT. We hope for the same type of response to next year’s general IT topics, as well as to next year’s special topic/session: “Research and Education Using Mobile and Social Networking: When, Where, and How”.

Finally, if you have ideas on how to improve our selection performance, the CIT article selection process, or quality of the publication in general, please feel free to contact us at [cit@srce.hr](mailto:cit@srce.hr).

Thank you again for your subscription, interest, and involvement. We hope to see you in Cavtat/Dubrovnik in June 2013 for the **35<sup>th</sup> ITI Conference**.

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