Editorial

Dear interested readers, perhaps you too have noted that a whole year has already passed with me as the Editor-in-Chief for *CIT. Journal of Computing and Information Technology*. While at the beginning this chore seemed to me an almost impossible job to do, with the valuable help of my colleagues from the Editorial Board, we succeeded in retaining the publishing schedule, along with diminishing a considerable pile of backlog submissions. I must however point out that this could not have been possible without the selfless help from my colleagues who acted as on-the-fly appointed Section Editors, and who processed submissions to *CIT* that were boundary to its original scope. Hence let me heartily thank Dragan Gamberger, Mislav Grgić, Josipa Kern, Zdenko Kovačić, Miljenko Lapaine, Vesna Lužar-Stiffler, Marko Rosić, Johann Sölkner, Siniša Šegvić, Dejan Škvorc, Mladen Vouk, and Mario Žagar, for their time and effort invested in supporting CIT's publishing endeavor.

As ones are coming, so others leave. In this respect I have to inform you that after a long time of affiliation with *CIT*, a number of our valuable Editors are leaving the bandwagon. We will miss them and their expertise in performing the often very demanding editorial duties. On behalf of the Editorial Board and myself, I would like to express my deep appreciation for their continuing support. These are in alphabetical order Nirwan Ansari, Thorsten M. Buzug, Uday K. Chakraborty, Ivica Crnković, Stanislav Kovačič, Pavel Loskot, Prabhat Kumar Mahanti, Nader Mir, Enzo Mumolo, Ray J. Paul, Min Song, Andreas Uhl and Sanjo Zlobec. Starting with the next Volume's first issue, a new Editorial Board will be introduced.

This issue, as the last in *CIT*'s Vol. 20, brings two papers related to *CIT*'s twentieth anniversary, which address its inception and history up to present days. The first one, written by myself, features a short account on *CIT*'s development through the years, along with a report of the Journal's present situation and plans for the future. The second one brings some personal reminiscences from the first Editor-in-Chief Leo Budin, Fellow of the Croatian Academy.

These papers are followed by the regular stack contributions, which include hardware design issues, network quality of service in MANETs, business intelligence, data mining, and knowledge management topics.

In his contribution *Ensuring a High Quality Digital Device through Design for Testability*, Christopher Umerah Ngene focuses on improving hardware products with respect to their reliability through making their design testable. He discusses various designs for testability techniques, and uses the scan chain methodology in order to illustrate the benefits of this approach.

Shrirang Ambaji Kulkarni and G. Raghavendra Rao address Quality of Service (QoS) requirements for a special kind of dynamic computer networks, i.e. Mobile Ad-hoc NETworks (MANETs), which operate in a decentralized manner. In their paper *Quality of Service Issues for Reinforcement Learning Based Routing Algorithm for Ad-Hoc Networks* they study QoS issues for such a network type by considering a reinforcement learning routing algorithm through various mobility metrics, along with mobile node cooperation through game theoretical modeling.

In *Practical Implications of Real Time Business Intelligence*, Dale Rutz, Tara Nelakanti and Nayem Rahman discuss a successful implementation of business intelligence reporting project. They concentrate on the challenges faced and describe a working model in which real-time business

intelligence was achieved by providing data to a separate server in an innovative way, resulting in decreased latency, reduced resource consumption and improved performance.

In her contribution *CLOLINK: An Adapted Algorithm for Mining Closed Frequent Itemsets*, Adebukola Onashoga concentrates on mining of the complete set of frequent itemsets, by proposing a novel algorithm named CLOLINK, which makes use of a compact data structure to dynamically link items in the database during the mining process. She provides an experimental evaluation of the approach on real databases, showing a better performance over previous methods.

And finally, Julia Rogushina and Anatoly Gladun discuss the application of ontologies in a subset of knowledge management known as competence management, which is based on the level of expert personal achievements. In their paper *Ontology-based Competency Analyses in New Research Domains* they describe ontology-driven methods for competence management of human resources for the specific domain of scientific researchers. In this process they use both Web services and the multi-agent programming paradigm for the respective software realization.

Vlado Glavinić
Editor-in-Chief