

EDITORIAL

Dear readers,

The Croatian Society KoREMA and the Board of Editors to AUTOMATIKA owe their special debt to Professor Emeritus Vladimir Muljević Ph D, and Professor Emeritus Tugomir Šurina Ph D, whose contribution to the development of the society and journal was of great importance, and who departed in February, respectively in March this year.

The first section of the journal AUTOMATIKA no. 1-2/2007 is featuring two papers, directly delivered to the editors: one preliminary communication and one scientific paper:

- M. Jadrić, M. Despalatović, B. Terzić, B. Rajković: **Methodology for Synchronous Hydro-generator Parameter Identification Based on Monitoring System Measurement**. The parameter identification procedure is divided into three steps, and the testing of each step, based on the equivalent simulation reactance, gave very good results for all parameters of the standard mathematical model of the synchronous 26 MVA hydrogenerator.
- M. Tomić, N. Stojković: **Framework for Adaptive Post-processing of Video Signals**. Some of the benefits of this modular and adaptive framework have been presented on the example of the MPEG-4 post-processing of video signals improvements.

The second section of this AUTOMATIKA issue incorporates three original scientific papers and one preliminary communication, presented at the 18th international conference ICECom (International Conference on Applied Electromagnetic and Communications) which was held in Dubrovnik, Croatia from 12 to 14 October 2005. More information concerning this conference and on six selected papers was published in the journal AUTOMATIKA no. 3-4/2006.

In the first paper of the second section: **Performance Analysis of Spherical Stacked-patch Antennas**, Zvonimir Šipuš et al., their performance analysis is based on the spectral-domain approach and the moment method. The obtained results confirm the importance of rigorous analysis of curved patch antennas. The agreement between the measured and calculated results was good.

In the second paper: **Beam Control With Active Reflectarrays**, Juan Vassal'lo Sanz et al. present active reflect-arrays having beam control by using IQ modulator, or switching circuit (1-bit or 3-bit reflect-arrays).

In the third paper: **Planar Inverted-F Antennas Integrated into Small Multi-Standard Handsets**, Tiago Gandara et al., present three small multi-band planar inverted-F antennas, developed to be used in multi-standard handsets. The prototypes of all three antennas have been designed, fabricated and tested.

In the fourth paper: **A Case Study of DGPS Positioning Accuracy for LBS**, Renato Filjar et al. examine the improvement of satellite positioning accuracy by using differential corrections, in the light of LBS positioning performance requirements.

Professor Željko Štih, Ph D describes under the heading »**Comments and Opinions**« the features of the new program at the Faculty of Electrical Engineering and Computing, University of Zagreb (FER), in adjustment with the Bologna Process, with the aim and desire to fully integrate into the European Higher Education Area by making academic degree standards and quality for education of engineers.

Here is some news for our readers:

- I have the pleasure to inform the readers that starting with the no.3-4/2006, the journal AUTOMATIKA was inserted into the database of **Computer & Applied Sciences Complete**, operated by one of the leading companies for research databases worldwide – EBSCO.
- Professor Željko Jakopović Ph D has initiated and taken charge of editing the electronic version of the journal AUTOMATIKA at the address <http://hrcak.srce.hr> (HRCĀK – Portal of Scientific and Expert Journals of the Republic of Croatia).

Editor-in-Chief
Professor Borivoje RAJKOVIĆ, PhD