

EDITORIAL

Dear readers,

In this issue of AUTOMATIKA we have the pleasure to present you an original scientific paper from the 11th Conference on Electric Drives and Power Electronics – EDPE 2000 held in Dubrovnik and organised by our publisher KoREMA.

*– Š. Mašić, J. Čorda, S. Smaka: **Computation of Static, Steady-state and Dynamic Characteristics of the Switched Reluctance Motor.** The paper gives an overview of the procedures determining static characteristics (flux linkage, magnetic co-energy and torque) and dynamic characteristics (speed, current and torque) of switched reluctance motor. The numerically obtained results were verified by a test. The authors have elaborated and revised their original version.*

Our editors have recently received two interesting preliminary communications published as a second and third contribution.

*– S. Bogdan, Z. Kovačić: **Fuzzy Rule-Based Adaptive Force Control of Single DOF Servo Mechanisms.** The paper presents position/force control with a completely fuzzified adaptive force control system for a single degree of freedom servo mechanisms. The results were obtained by computer/numerical simulations.*

*– M. Crneković, D. Zorc, D. Majetić: **Robot Motion Planning by Limited Space Method.** Limited space method (LSM) is used while researching 3D real physical space and finding out a logical path of a robot motion rather than the optimal path.*

The selected papers from the 16th International Conference on Applied Electro-magnetics and Communications (ICECOM 2001) held in Dubrovnik from 01 to 03 October 2001 organized by our publisher KoREMA make a segment of five contributions. These are three original scientific papers, a review and a professional paper. The papers feature the following: The ultra fast carrier dynamics in optically excited semiconductors studied by observing the THz beam generation; Inflatable array antennas developed to significantly reduce the mass, the launch vehicle's stowage volume and the cost of the future spacecraft systems; Patch antenna integrated with a transistor oscillator and a line impedance transformer coupled in E and H planes; A synthesis of omni directional circular cylindrical stacked patch antenna; A multimedia textbook of electromagnetic theory and techniques. You may find more information about the conference ICECOM 2001 as well as the three published papers in the AUTOMATIKA nos. 3-4/2001 and 1-2/2002 respectively.

The column »News and Topics« actually encompasses six pages and »Electronics in Words and Pictures« depicts latest development in digital electronics, particularly logic cell array (LCA) and field programmable gate arrays (FPGA) and a design of modern digital signal processor (DSP).

*In our column »Review and Comments« you may find a contribution by **Marijan Ožanić M.Sc.**, director to Technological Park Zagreb, writing alertly about their relevant research, development, innovations and entrepreneurship and about some examples of top results achieved in products and system development. He is full of optimism founded on the results of his associates.*

*Editor-in-chief
Prof. Borivoje RAJKOVIĆ, Ph.D*