

EDITORIAL

Dear readers,

Two interesting review articles have been published in this issue of AUTOMATIKA:

- *I. Nagy: **Nonlinear Phenomena in Power Electronics**. The paper is to summarise the state of the art in the advanced theory of nonlinear dynamical systems – theory of chaos, routes to chaos, fractal geometry illustrated by some examples from power electronics. The paper was initially presented at the 11th International Conference on Electrical Drives and Power Electronics, EDPE 2000, in Dubrovnik organised by our publisher KoREMA.*
- *D. Grundler and T. Rolich: **Evolutionary Algorithms (II) – Application**. It is the second part of an integral review article on evolutionary algorithms, the first part of which was published in the respective number 1-2/2001. The present article discloses PID controller parameters adjustment supported by evolution strategies applied to the heat exchange process.*

The second segment depicts six selected papers presented at the 9th International Mediterranean Conference on Control and Automation (MED'01), Dubrovnik, 27-29 June 2001. The conference was organised by our publisher KoREMA in collaboration with IEEE Control System Society and IEEE Robotics and Automation Society, and with the Mediterranean Control Association. Paper abstracts are published in the proceedings, and 153 integral papers in English, divided in 25 technical sections, have been issued on CD-ROM.

*The papers cover the following topics: **Aerial vehicles & tracking control, Neural nets, Predictive control, Drives control, Process control and Robotics**. These are four original scientific papers, a preliminary communication and a review.*

Under the heading »Measurements in Words and Pictures« our readers may easily notice huge technical and technological changes occurred in the construction of general-purpose instruments – multimeters and oscilloscopes.

»Conferences and Events« disclose interesting contributions reflecting strong engagement of the KoREMA association in organising international conferences in 2001. Besides the already mentioned 9th International Mediterranean Conference on Control and Automation (MED'01), there were 16th International Conference on Applied Electromagnetics and Communications (ICECOM 2001) and 21st Conference on Transportation Systems with International Participation (AUTOMATION IN TRANSPORTATION 2001). The venue of the conferences was Dubrovnik – an attractive centre of cultural and scientific events, the ancient town belonging to the UNESCO world heritage.

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