

automatika

**JOURNAL FOR CONTROL, MEASUREMENT, ELECTRONICS,
COMPUTING AND COMMUNICATIONS**

Published by KoREMA
Member of IFAC and IMEKO

ISSN 0005-1144
ATKAAF 45(3-4), 113-228(2004)
UDK: 007:62/68

Zagreb, Croatia

Volume 45-2004. **3-4**
No

CONTENTS

- | | | |
|--|------------|---|
| | 116 | Editorial |
| | 118 | Prof. Jože Černelč – on the Occasion of 45 th Anniversary of the Journal <i>AUTOMATIKA</i> |
| | 120 | Presenting a New Member of <i>AUTOMATIKA</i> Editorial Board |
| <i>John Håkon Husøy</i>
<i>M. S. E. Abadi</i> | 121 | Transient Analysis of Adaptive Filters Using a General Framework
<i>original scientific paper</i> |
| <i>Mladen Antunović</i>
<i>Steven A. Cummer</i> | 129 | Adaptive Filter for Event-Based Signal Extraction
<i>original scientific paper</i> |
| <i>Georgi Iliev</i>
<i>Karen Egiazarian</i> | 137 | Adaptive System for Engine Noise Cancellation in Mobile Communications
<i>original scientific paper</i> |
| <i>Edouard Ivanjko</i>
<i>Ivan Petrović</i>
<i>Mario Vašak</i> | 145 | Sonar-based Pose Tracking of Indoor Mobile Robots
<i>original scientific paper</i> |
| <i>M.P.R.V. Rao</i>
<i>Heba A. Hasan</i> | 155 | New Adaptive Laws for Model Reference Adaptive Control Using Non-Quadratic Lyapunov Functions
<i>preliminary communication</i> |
| <i>S. Blažič, I. Škrjanc, S. Gerkešič</i>
<i>G. Dolanc, S. Strmčnik</i>
<i>M. B. Hadjiski, A. Stathaki</i> | 161 | Simple Fuzzy Identification Implemented in Advanced Controller
<i>original scientific paper</i> |
| <i>Lucio Ippolito</i> | 169 | An Adaptive Fuzzy Approach to Predictive Overload Protection Systems for Power Transformers
<i>original scientific paper</i> |
| <i>Tomislav Idžotić</i>
<i>Gorislav Erceg</i>
<i>Damir Sumina</i> | 179 | Synchronous Generator Load Angle Measurement and Estimation
<i>original scientific paper</i> |
| <i>Gianfranco Chicco</i>
<i>Roberto Napoli</i>
<i>Filippo Spertino</i> | 187 | Performance Assessment of the Inverter-based Grid Connection of Photovoltaic Systems
<i>original scientific paper</i> |
| | 199 | Meetings and Events |
| | 205 | News and Topics |
| | 211 | Our Authors |