

automatika

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

Published by KoREMA
Member of IFAC

Zagreb, Croatia

doi: 10.7305

Online ISSN 1848-3380

Print ISSN 0005-1144

ATKAAF 54(2), 147-281 (2013)

UDK: 007:62/68

Volume 54-2013

No 2

CONTENTS

- | | |
|------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| | 151 Editorial |
| <i>Toni Bjažić, Željko Ban, Nedjeljko Perić</i> | 155 State Variables Estimation of Fuel Cell - Boost Converter System Using Fast Output Sampling Method
<i>original scientific paper</i> |
| <i>Dražen Slišković, Ratko Grbić, Željko Hocenski</i> | 166 Adaptive Estimation of Difficult-to-Measure Process Variables
<i>original scientific paper</i> |
| <i>Neven Čobanov, Željko Jakopović, Viktor Šunde</i> | 178 High Power Soft-Switching IGBT DC-DC Converter
<i>original scientific paper</i> |
| <i>Marek Tomasz Korzeniewski, Andrzej Sikorski</i> | 188 Improved Algorithms of Direct Torque Control Method
<i>original scientific paper</i> |
| <i>Tanuja Satish Dhope, Dina Šimunić, Radovan Zentner</i> | 199 Analysis of DoA Estimation Algorithms in SDMA System
<i>original scientific paper</i> |
| <i>Labonnah Farzana Rahman, Mamun Bin Ibne Reaz, Mohd Alauddin Mohd Ali, Mohd Marufuzzaman</i> | 210 Design and Implementation of a Low Supply Voltage Voltage Type Sense Amplifier with Low Current Consumption for RFID Transponder
<i>original scientific paper</i> |
| <i>Neven Mijat, Dražen Jurišić, George Samson Moschytz</i> | 217 A Novel Third-Order Leap-Frog Active Filter
<i>original scientific paper</i> |
| <i>Eray Abdurrahman Baran, Edin Golubović, Asif Šabanović</i> | 231 Functional Observers for Motion Control Systems
<i>original scientific paper</i> |

*Nikola Pavković, Tibor Skala,
Valentin Vidić*

242 Automatic Enlarge and Deployment of Computer Cluster Using
Dual-Boot Approach
original scientific paper

*Ante Odić, Marko Tkalčič, Jurij
Franc Tasič, Andrej Košir*

252 Impact of the Context Relevancy on Ratings Prediction in a
Movie-Recommender System
original scientific paper

Damir Filko, Goran Martinović

263 Emotion Recognition System by a Neural Network Based Facial
Expression Analysis
original scientific paper

273 Meetings and Events

276 IFAC Newsletter