

International Journal of Electronics and Electrical Engineering

CONTENTS

Volume 1, Number 1, March 2013

| | |
|--|----|
| Reducing Message Passing and Time Complexity in Bully Election Algorithms Using Two Successors | 1 |
| <i>Basim Alhadidi, Laith H. Baniata, Mohammad H. Baniata, and Mohammad Al-Sharaiah</i> | |
| On the Design and Implementation of an Efficient Information Retrieval System for Arabic Language | 5 |
| <i>Mohammad O. Wedyan and Aarti Singh</i> | |
| Bilateral Filter Based Selective Unsharp Masking Using Intensity and/or Saturation Components | 10 |
| <i>Noriaki Suetake, Yohei Kuramoto, Eiji Uchino, Kazuhiro Tokunaga, and Sadanori Hirose</i> | |
| Framework for Transaction Execution Strategies in Mobile Data Base Systems | 15 |
| <i>Ahmad al-Qerem</i> | |
| Managing E-Waste Using TRIZ | 19 |
| <i>Nikalus Shu Luing Swee, Mum Wai Yip, Chee Sheng Keong, See Chew Tai, and Guat Guan Toh</i> | |
| Effect of High Performance SiGe HBT Design Parameters on the Minimum Gate Delay of an ECL Inverter | 23 |
| <i>Chafia Yahiaoui</i> | |
| A Power and Area Efficient 8-Channel Neural Signal Front End for Biomedical Applications | 26 |
| <i>Sami ur Rehman and Awais Mehmood Kamboh</i> | |
| Comparison of Total Ionizing Dose Effects for Floating and Tied Body SOI nMOSFETs | 31 |
| <i>Bingxu. Ning and Zhengxuan. Zhang</i> | |
| A Reliable, Process-Sensitive-Tolerant Hybrid Sense Amplifier for Ultralow Power SRAM | 34 |
| <i>B.S. Reniwal and S. K. Vishvakarma</i> | |
| Architectural Evaluation of Asymmetric Algorithms in ARM Processors | 39 |
| <i>Gustavo S. Quirino and Edward David Moreno</i> | |
| A 6.5- $\mu\text{V}/^\circ\text{C}$ Offset Drift Compensation Technique for Dynamic Comparator | 44 |
| <i>Daiki Tabira and Kenichi Ohhata</i> | |
| A Low-Power 16-bit RISC Microcontroller | 48 |
| <i>Li Guangcai, Lu Tiejun, and Zong Yu</i> | |
| CCTAs based Current-mode Quadrature Oscillator with High Output Impedances | 52 |
| <i>T. Thosdeekoraphat, S. Summart, C. Saetiauw, S. Santalunai, and C. Thongsopa</i> | |
| A Hybrid Intelligent Autonomous Model Developed Using Multi-Agent Systems | 57 |
| <i>Anusua Ghosh, Andrew Nafalski, and Jeffery W Tweedale</i> | |