Contents

Real Time Modelling and Processing .................................................. 1
Wael Dghais, Muhammad Alam and Yuanfang Chen

IBIS and Mpilog Modelling Frameworks for Signal Integrity
Simulation ................................................................. 15
Wael Dghais and Muhammad Alam

Improved and Reduced-Order I/O Devices Behavioral Modeling
Solutions for SI Simulation ............................................. 45
Wael Dghais

Neuro-Fuzzy Nonlinear Dynamic Modelling for Signal Integrity
Simulation ................................................................. 75
Wael Dghais and Yuanfang Chen

Fuzzy Sliding Mode Controller Design Based on Euclidean Particle
Swarm Optimization .................................................... 95
Moez Soltani, Lotfi Chaouech and Abdelkader Chaari

A Detailed Extraction Procedure of Thyristor Design Parameters ...... 123
Hatem Garrab, Atef Jedidi and Hervé Morel

An Electrothermal Behavior Study of the Power PiN Diode ............ 151
Atef Jedidi, Hatem Garrab and Hervé Morel

Modeling of Memristive Devices for Neuromorphic Application ...... 175
Fakhreddinne Zayer, Wael Dghais and Hamdi Belagcem

Modeling, Designing and Analyzing Resource Reservations
in Distributed Embedded Systems ........................................ 203
Mohammad Ashjaei, Nima Khalilzad and Saad Mubeen

Real-Time Implementation of Light-Independent Traffic Sign
Recognition Approach ..................................................... 257
S. Hamdi, H. Faeidh, W. Farhat and C. Souani
Real-Time Modelling and Processing for Communication Systems
Applications and Practices
Alam, M.; Dghais, W.; Chen, Y. (Eds.)
ISBN: 978-3-319-72214-6