# Contents

**Challenges in Embedded Engineering Education** .......................... 1
Ivan Kastelan, Nikola Teslic and Miodrag Temerinac

**Unified Learning Platform for Embedded Engineering** ............... 29
Ivan Kastelan, Nikola Teslic and Miodrag Temerinac

**Exercises for Embedded Engineering Learning Platform** .............. 45
Branka Medved Rogina, Karolj Skala, Peter Škoda, Ivan Sović and Ivan Michieli

**Implementation of Advanced Historical Computer Architectures** .... 61
Zorislav Šojat, Karolj Skala, Branka Medved Rogina, Peter Škoda
and Ivan Sović

**Methods for User Involvement in the Design of Augmented**
**Reality Systems for Engineering Education** ........................... 81
Margarita Anastassova, Sabrina Panëels and Florent Souvestre

**Augmented Reality Interface for E2LP: Assistance in Electronic**
**Laboratories Through Augmented Reality** .............................. 93
Enara Artetxe González, Florent Souvestre and Jorge R. López Benito

**E2LP Remote Laboratory: e-Learning Service for Embedded**
**Systems Education** ....................................................... 109
Rafał Kloda and Jan Piwiński

**Advanced Projects and Applications for Embedded Systems**
**Engineering on E2LP Platform** ......................................... 119
Dario Grgić, Sebastian Böttcher, Marc Pfeifer, Johannes Scherle,
Benjamin Völker, Jan Burchard, Sebastian Sester
and Leonhard M. Reindl

**E2LP Remote Laboratory: Introduction Course and Evaluation**
**at Warsaw University of Technology** .................................... 133
Rafał Kłoda, Jan Piwiński and Roman Szewczyk
Exploring Aspects of Self-regulated Learning Among Engineering Students Learning Digital System Design in the FPGA Environment—Methodology and Findings  139
Moshe Barak, Ivan Kastelan and Zvi Azia

Is It Possible to Increase Motivation for Study Among Sophomore Electrical and Computer Engineering Students?  161
Aharon Gero

Interrupts Become Features: Using On-Sensor Intelligence for Recognition Tasks  171
Kristof Van Laerhoven and Philipp M. Scholl
Embedded Engineering Education
Szewczyk, R.; Kaštelan, I.; Temerinac, M.; Barak, M.;
Sruk, V. (Eds.)
2016, XII, 185 p. 78 illus., 12 illus. in color., Softcover
ISBN: 978-3-319-27539-0