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| Autore                  | Costanzo, Salvatore                                                                                                                                                                     |
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| Autore                  | Henkler Stefan                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
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| Altri autori (Persone)  | KreutzMarcio<br>WehrmeisterMarco A<br>GötzMarcelo<br>RettbergAchim                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| Disciplina              | 006.22                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| Soggetti                | Computers, Special purpose<br>Computers<br>Software engineering<br>Computer systems<br>Special Purpose and Application-Based Systems<br>Computer Hardware<br>Software Engineering<br>Computer System Implementation                                                                                                                                                                                                                                                                                                                                                                                            |
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| Nota di contenuto       | Evaluating the Perceptual Properties of Crosscutting Concerns<br>Occurrence Points Specifications in Embedded Software -- Simulation of Timing Attacks and Challenges for Early Side-Channel Security Analysis -- Adaptation for Energy Saving in Time-triggered Systems Using Meta-scheduling with Sample Points -- Communication Layer Architecture for a Production Line Digital Twin Using Hierarchical Colored Petri Nets -- Exploiting Heterogeneity in PIM Architectures for Data-intensive Applications -- Demonstrating Scalability of the Checkerboard GPC with SystemC TLM-2 -- MAFAT: Memory-Aware |

Fusing and Tiling of Neural Networks for Accelerated Edge Inference --  
Memristor-only LSTM Acceleration with Non-linear Activation Functions  
-- Minimizing Memory Contention in an APNG Encoder Using a Grid of  
Processing Cells -- Analyzing the Characteristics of Neural Networks  
for the Recognition of Sugar Beets -- Synthetic Data for Machine  
Learning on Embedded Systems in Precision Agriculture -- Using  
Network Architecture Search for Optimizing Tensor Compression.

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Sommario/riassunto

This book constitutes the refereed proceedings of the 7th IFIP TC 10 International Embedded Systems Symposium, IESS 2022, held in Lippstadt, Germany, during November 3-4, 2022. The 10 full revised papers and 2 short papers presented were carefully reviewed and selected from 13 submissions. The presented research and technical works cover system-level design methods, algorithms, verification and validation techniques, estimation of system properties and characteristics, performance analysis, and real-time systems design. Also, the book presents industrial and real-world application case studies that discuss the challenges and realizations of modern embedded systems, especially when it comes to including artificial intelligence algorithms and techniques in embedded systems.

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