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| 1. Record Nr. | UNIORUON00150600 |
| Autore | YUSEFI, Golamhoseyn |
| Titolo | Abu Moslem, sardar-e Xorasan / Golamhoseyn Yusefi |
| Pubbl/distr/stampa | Tehran, : [s.n.], 1345 H. [1967] |
| Descrizione fisica | 244 p. ; 23 cm |
| Classificazione | IRA IV AB |
| Lingua di pubblicazione | Persiano |
| Formato | Materiale a stampa |
| Livello bibliografico | Monografia |
| 2. Record Nr. | UNINA9910672439103321 |
| Titolo | Analysis, Estimations, and Applications of Embedded Systems : 6th IFIP TC 10 International Embedded Systems Symposium, IESS 2019, Friedrichshafen, Germany, September 9–11, 2019, Revised Selected Papers // edited by Marco A. Wehrmeister, Márcio Kreutz, Marcelo Götz, Stefan Henkler, Andy D. Pimentel, Achim Rettberg |
| Pubbl/distr/stampa | Cham : , : Springer Nature Switzerland : , : Imprint : Springer, , 2023 |
| ISBN | 3-031-26500-9 |
| Edizione | [1st ed. 2023.] |
| Descrizione fisica | 1 online resource (195 pages) |
| Collana | IFIP Advances in Information and Communication Technology, , 1868-422X ; ; 576 |
| Disciplina | 260
004.16 |
| Soggetti | Computers, Special purpose
Special Purpose and Application-Based Systems |
| Lingua di pubblicazione | Inglese |
| Formato | Materiale a stampa |
| Livello bibliografico | Monografia |
| Nota di bibliografia | Includes bibliographical references and index. |
| Nota di contenuto | Embedded Real-Time Systems -- A Real-Time Operating System for Cyber-Physical Systems Based on Physical Time and Logical Time -- A |

Proposal to Trace and Maintain Requirements Constraints of Real-Time Embedded Systems -- A Comparative Analysis between SysML and AADL when Modeling a Real-Time System -- Design, Implementation, and Evaluation of a Real-Time Localization System for the Optimization of Agitation Processes -- Estimations -- Improving Estimations for Latencies of Cause-Effect Chains -- Workload Characterization for Memory Management in Emerging Embedded Platforms -- Tool and Method for Obtaining End-to-End Reliability Parameters of Wireless Industrial Networks -- Architecture & Application -- Towards ASIP Architecture-Driven Algorithm Development -- Using Data Mining and Mobile Devices to Assist the Interactive Automotive Diagnostics -- Algorithm and System C -- An Untimed SystemC Model of GoogLeNet -- An Efficient Lightweight Framework for Porting Vision Algorithms on Embedded SoCs -- Analysis -- IoT Assistant for People with Visual Impairment in Edge Computing -- Analysis of Low Cost Sensors Applied to the Detection of Obstacles in High Voltage Towers -- Monitoring of an Artificial DNA in Dynamic Environments -- Design and Analysis of an Online Update Approach for Embedded Microprocessors.

Sommario/riassunto

This book constitutes the refereed proceedings of the 6th IFIP TC 10 International Embedded Systems Symposium, IESS 2019, which took place in Friedrichshafen, Germany, in September 2019. The 16 full papers and 4 short papers presented in this book were carefully reviewed and selected from 32 submissions. The papers were organized in topical sections on embedded real-time systems; estimations; architecture and applications; algorithms and System C; and analysis. .
