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Record 1 of 1**Title:** Energy Efficiency in Real-Time Systems: A Brief Overview**Author(s):** Stangaciu, CS (Stangaciu, Cristina S.); Micea, MV (Micea, Mihai V.); Cretu, VI (Cretu, Vladimir I.)**Book Group Author(s):** IEEE**Source:** 2013 IEEE 8TH INTERNATIONAL SYMPOSIUM ON APPLIED COMPUTATIONAL INTELLIGENCE AND INFORMATICS (SACI 2013) **Pages:** 275-280 **Published:** 2013**Times Cited in Web of Science:** 0**Total Times Cited:** 0**Cited Reference Count:** 39**Abstract:** As the embedded and real-time control systems become ubiquitous, with increasingly stringent requirements of smaller size, their energy efficiency emerges as a problem of key interest. In this paper we review the state of the art of energy optimization techniques from the real-time systems point of view. The survey approaches both hardware and software aspects, including the real-time hardware support, various power-saving mechanisms, battery models, real-time power-aware scheduling and dynamic power management methods. The relevant solutions found in the literature are classified and briefly presented. A comparative discussion of these methods, focusing on a set of key aspects, summarizes the survey.**Accession Number:** WOS:000333188100049**Language:** English**Document Type:** Proceedings Paper**Conference Title:** 8th IEEE International Symposium on Applied Computational Intelligence and Informatics (SACI)**Conference Date:** MAY 23-25, 2013**Conference Location:** Timisoara, ROMANIA**Conference Sponsors:** IEEE**Conference Host:** Politehnica Univ Timisoara, Fac Automat & Comp**Author Keywords:** Power-Aware; Real Time Systems; Scheduling; Dynamic Voltage Scaling (DVS); Dynamic Power Management (DPM)**KeyWords Plus:** LOW-POWER; NETWORKS**Addresses:** [Stangaciu, Cristina S.; Micea, Mihai V.; Cretu, Vladimir I.] Politehn Univ Timisoara, Comp & Software Engr Dept, Timisoara 300223, Romania.**Reprint Address:** Stangaciu, CS (reprint author), Politehn Univ Timisoara, Comp & Software Engr Dept, 2 Vasile Parvan Blvd, Timisoara 300223, Romania.**E-mail Addresses:** certejan@dsplabs.cs.upt.ro; mihai.micea@cs.upt.ro; vladimir.cretu@cs.upt.ro**Publisher:** IEEE**Publisher Address:** 345 E 47TH ST, NEW YORK, NY 10017 USA**Web of Science Categories:** Computer Science, Artificial Intelligence**Research Areas:** Computer Science**IDS Number:** BA1YW**ISBN:** 978-1-4673-6400-3; 978-1-4673-6397-6**Source Item Page Count:** 6

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