

**Record 1 of 1****Title:** Analysis and Improvements in Energy Consumption Models for RTS**Author(s):** Stangaciu, CS (Stangaciu, Cristina S.); Horvath, AM (Horvath, Andreea M.); Micea, MV (Micea, Mihai V.); Cretu, VI (Cretu, Vladimir I.); Groza, V (Groza, Voicu)**Book Group Author(s):** IEEE**Source:** 2015 IEEE 10TH JUBILEE INTERNATIONAL SYMPOSIUM ON APPLIED COMPUTATIONAL INTELLIGENCE AND INFORMATICS (SACI) **Pages:** 277-282 **Published:** 2015**Times Cited in Web of Science Core Collection:** 1**Total Times Cited:** 1**Usage Count (Last 180 days):** 0**Usage Count (Since 2013):** 0**Cited Reference Count:** 19**Abstract:** In this paper we perform an analysis of the main software methods for consumption reduction in real time systems (RTS). The study covers both scheduling methods and energy consumption models for RTS, where we focus on sensor nodes. Further on, we propose a new consumption model for a large number of node configurations, which suites most of the main scheduling algorithms. We also introduce a software environment which integrates the new model and provides a set of reports and graphical results to compare the power consumption efficiency of the scheduling algorithms**Accession Number:** WOS:000380397800051**Language:** English**Document Type:** Proceedings Paper**Conference Title:** 10th Jubilee IEEE International Symposium on Applied Computational Intelligence and Informatics**Conference Date:** MAY 21-23, 2015**Conference Location:** Timisoara, ROMANIA**KeyWords Plus:** DYNAMIC POWER MANAGEMENT**Addresses:** [Stangaciu, Cristina S.; Horvath, Andreea M.; Micea, Mihai V.; Cretu, Vladimir I.] Politehn Univ, Comp & Software Engn Dept, Timisoara, Romania. [Groza, Voicu] Univ Ottawa, Sch Elect Engn & Comp Sci, Ottawa, ON K1N 6N5, Canada.**Reprint Address:** Stangaciu, CS (reprint author), Politehn Univ, Comp & Software Engn Dept, Timisoara, Romania.**E-mail Addresses:** certejan@dsplabs.cs.upt.ro; mah.maria.horvath@gmail.com; mihai.micea@cs.upt.ro; vladimir.cretu@cs.upt.ro; groza@site.uottawa.cs**Publisher:** IEEE**Publisher Address:** 345 E 47TH ST, NEW YORK, NY 10017 USA**Web of Science Categories:** Computer Science, Artificial Intelligence; Computer Science, Theory & Methods; Engineering, Electrical & Electronic**Research Areas:** Computer Science; Engineering**IDS Number:** BF1HP**ISBN:** 978-1-4799-9911-8**Source Item Page Count:** 6