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Title: TEEARTS: Time and Energy Efficiency Analysis for Real Time Systems Framework

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Abstract: In this paper we introduce TEEARTS (Time and Energy Efficiency Analysis for Real Time Systems) Framework. TEEARTS is being developed as an energy consumption measurement and estimation framework for embedded systems, with applicability especially in real-time systems. Beside the measurement modules, an energy estimation model is proposed, along with a methodology to determine its parameters. A set of experimental results regarding the use of this methodology and the energy consumption analysis framework on an embedded target are also presented and discussed.

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