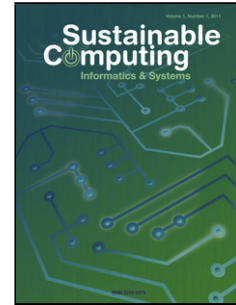


## Accepted Manuscript



Title: Energy-Efficient Scheduling with Reliability Guarantee in Embedded Real-Time Systems

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PII: S2210-5379(16)30007-5  
DOI: <https://doi.org/doi:10.1016/j.suscom.2018.01.005>  
Reference: SUSCOM 224

To appear in:

Received date: 24-1-2016  
Revised date: 16-1-2018  
Accepted date: 22-1-2018

Please cite this article as: Hongzhi Xu, Renfa Li, Lining Zeng, Keqin Li, Chen Pan, Energy-Efficient Scheduling with Reliability Guarantee in Embedded Real-Time Systems, <![CDATA[Sustainable Computing: Informatics and Systems]]> (2018), <https://doi.org/10.1016/j.suscom.2018.01.005>

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The slack time is collected by a periodic virtual task.

Processor utilization is used to further balance the execution frequency of related tasks.

The preemption during the task execution is analyzed and the number of preemption times is reduced.

Several energy-efficient scheduling algorithms with reliability guarantee are designed.

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