

Abstract: Resource-Aware Reliable Networking for CPS Environment and Performance Evaluation

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Abstract

CPS (cyber-physical system) requires networking support that tightly combines computing and physical elements and its feasibility largely depends on the performance of reliable data networking among CPS nodes. Also, to accommodate the diversity of targeted CPS domains, it is necessary to satisfy the domain-specific quality requirements that can match the affordable computational complexity (i.e., resource awareness). In this paper, based on a trace-driven simulation method, we discuss how to evaluate the relationship of CPS networking performance and resource consumption.

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