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Multiprocessor platforms play important roles in modern computing systems, and appear in various applications, ranging from energy-limited hand-held devices to large data-centers. As the

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Energy-aware Scheduling on Multiprocessor Platforms with Devices Dawei Li, Jie Wu Dept. of Computer and Information Sciences Temple Univ., PA [dawei.li, jiewu]@temple.edu

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This book surveys existing works that have been on energy-aware task scheduling on DVFS multiprocessor platforms. Energy-aware scheduling problems are intrinsically optimization problems, the formulations of which greatly depend on the platform and task models under consideration.

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which greatly depend on the platform and task models under consideration. Thus, Energy-aware Scheduling on Multiprocessor Platforms covers current research on this topic and classics.

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of energy-aware scheduling for multiprocessor with probabilistic workload information and derive its mathematical formulation. As the problem is NP-hard, we present a polynomial-time heuristic method to transform the problem into a probability-based load balancing problem that is

then solved with worst-1 decreasing bin-packing heuristic. Simulation results with synthetic, multimedia, and

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Energy-Aware Scheduling for Real-Time Systems: A Survey 7:3 the integrated solutions for multiprocessor systems based on voltage islands, Section 9