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# Hierarchical Scheduling of DAG Structured Computations on Manycore Processors with Dynamic Thread Grouping -- Multiplexing Low and High QoS Workloads in Virtual Environments -- Proposal and Evaluation of APIs for Utilizing Inter-Core Time Aggregation Scheduler -- Using Inaccurate Estimates Accurately.

## Sommario/riassunto

This volume contains the papers presented at the 15th workshop on Job Scheduling Strategies for Parallel Processing that was held in Atlanta (GA), USA, on April 23, 2010 in conjunction with the IEEE International Parallel Processing Symposium 2010. This year 18 papers were submitted to the workshop. All submitted papers went through a complete review process, with the full version being read and evaluated by an average of four reviewers. We would like to especially thank the program committee members and additional referees for their willingness to participate in this effort and their excellent, detailed reviews: Henri Casanova, Peter A. Chrzsz, Walfredo Cirne, Julita Corbalan, Arash Deshmeh, Dick Epema, Dror G. Feitelson, Allan Gottlieb, Rajkumar Kettimuthu, Virginia Lo, Kuan Lu, Vicent Matossian, Jose E. Moreira, Bill Nitzberg, Elizeu Santos-Neto, Angela C. Sodan, Mark S. Squillante, Dan Tsafrir, Philipp Wieder, and Ramin Yahyapour. The papers in this volume show a prolific growth in the areas of applicability for parallel scheduling. Together with the more common scheduling aspects (such as cluster and grid scheduling, workload analysis, metrics, quality of service, and task scheduling), these papers increasingly discuss more recent problems and applications, such as virtualized environments, many-core processors, DNA sequencing, and Hadoop. This volume also includes a paper that summarizes Dan Tsafrir's work on understanding the role of user estimates in job scheduling evaluations. His insights, which were presented in this workshop's keynote, are quite instructive and lead to the conclusion that accurate user estimates are indeed better for clients scheduling. Although this conclusion may sound intuitive, it is actually contradictory to previous studies that found inaccurate estimates to improve scheduler performance. Following his analysis, Dan also suggests practical ways to deal with estimate inaccuracy for realistic job scheduler evaluations.