Load Balancing: An Automated Learning Approach

Pankaj Mehra, Benjamin W. Wah

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This book presents a system that learns new load indices and tunes the parameters of given migration policies. The key component is a dynamic workload generator that allows off-line measurement of task-completion times under a wide variety of precisely controlled loading conditions. The workload data collected are used for training comparator neural networks, a novel architecture for learning to compare functions of time series and for generating a load index to be used by the load balancing strategy. Finally, the load-index traces generated by the comparator networks are used in a population-based learning system for tuning the parameters of a given load-balancing policies. Together, the system constitutes an automated strategy-learning system for performance-driven improvement of existing load-balancing software.

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