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## **Optimization of over-provisioned clouds**

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The variability of workloads experienced by modern user applications leads to uneven distribution of workloads across physical resources and ineffective hardware utilization of cloud data centers. Some ways to solve this problem are reviewed and a need to develop algorithms to optimize hardware utilization of clouds is shown. As an example of one of the promising approaches a smart algorithm for dynamic re-allocation and consolidation of virtual resources to improve hardware utilization in heterogeneous cloud environments is proposed.

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