

Autonomic Control for Data Centers and the Validation of Management Policies

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This talk will focus on the higher layer of the data center management. In recent years, autonomic control technology reduces the management cost. Tedious and repetitive tasks are replaced by autonomic management engine and IT staffs can shift their attention from lower level tasks toward higher level ones, like designing policies to govern the IT infrastructure. But, then, new kinds of problems are raised. As the size of the IT system grows bigger, automation rules becomes complex and hard to design and understand. In addition, the different types of design consideration aspects should be taken into account at the same time. After reviewing these hot topics, I introduce recent activities on the validation of autonomic management. In particular, I will talk about model checking, a formal computational method for validating policies and IT system models.