Fairness and efficiency in network-system resource allocation

Mots clés :
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Résumé du projet de recherche (Langue 1)

This Ph.D. topic consist in the study of resource allocation problems for networking and computing setting appearing in novel infrastructure environment such as those related to the fifth generation (5G) of networks, Cloud computing, Network Functions Virtualization (NFV) and Software Defined Networking (SDN). Among the novel characteristics, we can mention the increased awareness on network and system states due to infrastructure sharing and the existence of multiple objectives related to efficiency, fairness and multi-resource allocation aspects. We target the definition of novel fairness concept and related resource allocation algorithms, and their evaluation by means for simulation and experimentation.