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Title: « Cooperative Cost Sharing for Multi-Tenant Edge Computing Coinvestment »

Short Abstract:

This thesis proposes a marketplace where 6G network operators trade edge computing resources to meet QoS targets while improving economic viability and sustainability. By enabling resource pooling across operators and service providers (SPs), it reduces overprovisioning, investment costs, and environmental footprint, especially when prioritizing nodes powered by renewable energy. As a first contribution, cooperative game theory is used to model coalitions between an operator and SPs and to design fair, stable incentive and cost sharing mechanisms.