Cost-Efficient Software Service Distribution in Infrastructure Clouds

- Cloud computing permits to lease infrastructure, rather than provide it in-house
- Software services (SaaS) are supplied through Infrastructure Clouds (IaaS)

- Cost-minimal distribution of software service instances to different Virtual Machines (VMs)
- Consideration of multiple constraints, e.g., resource demands and Quality of Service requirements
  → Software Service Distribution Problem

- Formal problem specification and mathematical modeling
- Development, implementation, and evaluation of runtime optimization and benchmarking approaches
  → Enabling SaaS providers to achieve cost savings and more competitive pricing of their services in the cloud market