



Department of Electrical and Computer Engineering

Title: Resource Allocation and Scheduling in Distributed Environments – Research Aspects & Highlights

Georgios Stavriniades

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Room: XOD02-013

Abstract: Distributed computing architectures encompass paradigms ranging from the traditional clusters and grids to the more recent fog and cloud platforms. Resource allocation and scheduling is particularly challenging in such environments, where application jobs typically consist of several component tasks, have various degrees of parallelism, and require processing within strict time constraints. In this context, other issues and challenges include fault tolerance, data locality and privacy, energy efficiency, as well as resource elasticity and monetary cost. Consequently, effective and efficient resource allocation and scheduling techniques should be employed in such environments, in order to achieve satisfactory performance. In this talk, the main aspects of my research in this area will be presented and discussed.

Biography: Georgios L. Stavriniades is currently a postdoctoral researcher at the KIOS Research and Innovation Center of Excellence at the University of Cyprus. He received the BSc degree in Informatics from Aristotle University of Thessaloniki, Greece in 2006 and the MSc degree in Advanced Computing from Imperial College London, U.K. in 2007. He received the PhD degree in Informatics from Aristotle University of Thessaloniki, Greece in 2014. Before joining KIOS, he was a postdoctoral researcher/research collaborator in the Department of Informatics of the Aristotle University of Thessaloniki, Greece. His research interests include resource allocation and scheduling algorithms, real-time distributed systems, cloud and fog computing, modeling, simulation and performance evaluation of distributed systems.