



Nell'ambito del programma di dottorato del DMI

il Dott. , PhD Davide Taibi

Department of Pervasive Computing

Tampere University of Technology

terrà un corso breve dal titolo:

Microservices

11 Giugno 2018, ore 9.00 – 18.00

(Lab. M - Dip. di Matematica e Informatica, via Ospedale 72)

The course will provide an overview on microservice architectural patterns together with their advantages and disadvantages.

Microservices are increasing their popularity in industry, being adopted by several big players such as Netflix, Spotify, Amazon and many others and several companies are now following the trend, migrating their systems to microservices.

Microservices are small autonomous services deployed independently, with a single and clearly defined purpose. Their independent deployability is advantageous for continuous delivery. They can scale independently from other services, and they can be deployed on the hardware that best suits their needs.

In this seminar, we will introduce microservices architectural patterns, describing pros and cons, migration approaches and benefits.

Program:

9:00 – 12:00

- Introduction to Microservices
- Motivation for migrating to Microservices
- Migration processes

12:00 -13:00 Lunch break

13:00 – 17.00

- Microservices Bad Smells and Antipatterns
- Microservices orchestration
- Kubernetes and Docker Swarm

17:00 – 18:00

- Final Exam

The seminar will provide 1 credit for students of PhD School in Electronic and Computer Engineering and 1,5 credits for students of PhD Program in Mathematics and Computer Science.

Davide Taibi is assistant professor (tenure track) of cloud and web engineering at the Tampere University of Technology. His research interests include software quality and cloud migration, supporting companies in migrating to microservice-based architectures while keeping technical debt under control. Moreover, his research interests also include software maintenance and evolution with a special attention to the reduction of technical debt in continuous architecting processes. He is a Fellow of various scientific associations including ACM and IEEE.