Linnéuniversitetet
Linnaeus University

Master Thesis (level)

Thesis Topic

Quality Model for Reactive Systems

Motivation

With the growing demand for real-time data originating from myriads of Internet-connected devices, the number of requests hitting today's computing infrastructures goes beyond what is manageable for operations and affordable for management. Moreover, the mobile nature inherent to modern communications and interactions requires for software architectures able (1) to reflect the fully decentralized perspective of the execution environment, and (2) to guarantee the provision of dependable functionality.
To this end, systems should be *Reactive*: i.e., Responsive, Resilient, Elastic and Message Driven.

[https://www.reactivemanifesto.org/]

Tasks

Define and specify a Quality Model with the objective to describe, assess and/or predict Reactive Systems quality

Prerequisites *

- Software Engineering and Software Architecture
- Performance Engineering
- Software Metrics

We offer you

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Time frame

Supervisor(s)

- Mauro Caporuscio (mauro.caporuscio@lnu.se)
- Diego Perez (diego.perez@lnu.se)

* All the course codes, like e.g. 1DV101, refer to courses here at DFM. Similar documented experience from other places will do just as well.