

Informatik–Kolloquium WS 2025/26

Montag, 03.11.25, 16.00 Uhr

Raum 12801.01.150, Cauerstr.11

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Towards a Feature Model for Monolith Microservices Identification Approaches

Several approaches have been proposed for the automatic identification of microservices in monolith systems. These approaches follow different strategies, from how they collect the monolith data, e.g. static vs dynamic collection, to the algorithms they apply for the identification, e.g. clustering vs genetic algorithm, as well as the visualization of the candidate microservices, e.g. structural or dynamic dependencies. However, it seems that there is no clear winning strategy. Therefore, more experimentation and comparison between approaches are required. Nonetheless, there is no experimental environment that facilitates it while providing assessment tools, as experimentation and comparison are not the priority. Additionally, there is a lack of categorization of the requirements that such environments should fulfill. Therefore, I will present our work in progress towards a feature model for monolith microservices identification approaches. We have identified the relevant features that the approaches should implement and cross-checked these features with an extensive number of literature surveys on the identification of microservices in monoliths.

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