ΤΜΗΜΑ ΜΗΧΑΝΙΚΩΝ Η/Υ ΚΑΙ ΠΛΗΡΟΦΟΡΙΚΗΣ · ΠΑΝΕΠΙΣΤΗΜΙΟ ΙΩΑΝΝΙΝΩΝ
DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING · UNIVERSITY OF IOANNINA

ΣΕΜΙΝΑΡΙΟ ΤΜΗΜΑΤΟΣ

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ΩΡΑ:	12:00
ΑΙΘΟΥΣΑ:	Αίθουσα Σεμιναρίων (ισόγειο Ι11) Κτήριο Τμήματος Μηχανικών Η/Υ& Πληροφορικής

Θέμα

Navigating through the Archipelago of Refactorings

Περίληψη

Refactoring is the process of changing the internal structure of software to make it easier to understand and cheaper to modify without changing its observable behavior. The essence of refactoring is to improve software quality via the systematic combination of primitive refactorings. To this end, Martin Fowler (with contributions by Beck, Brand, Opdyke and Roberts) introduced a well known catalog of 68 refactorings. Yet, there are way too many refactorings. Choosing which refactorings to use, how to combine them and how to integrate them in more complex evolution tasks is hard. To address the complexity of the refactorings space, Fowler already grouped the 68 refactorings in six groups. Even so, exactly due to the inherent interconnection of these refactorings, the space of options before, during and after a refactoring is still large. Specifically, in Fowler's catalog, the documentation of each refactoring includes discussions that reflect relations with other refactorings. The "hidden" relations refer to refactorings that could be performed before, or after the target refactoring. The "hidden" relations also concern alternative refactorings that could be performed instead of the target refactoring, or constituent refactorings that can be used to realize the target refactoring.

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Our vision is to provide the developer with a "trip advisor" for the archipelago of refactorings. The core idea of our approach is the map of the archipelago of refactorings, which identifies the basic relations that guide the systematic and effective combination of refactorings. Based on the map, the trip advisor makes suggestions that allow the developer to decide how to start, assess the possible alternatives, have a clear picture of what has to be done before, during and after the refactorings and assess the possible implications.