Requirements Engineering

DAT230

Course Overview

Robert Feldt, 2010-08-30

We need the new airplane model ASAP to beat our competition.
CEO
Shouldn't we stop and get the product requirements first?
There's no time for that! We've been building planes for years; just get the new version out the door before the competition does!
CEO
Later...
Um, ... how do we get in?
?!

SW Project Problem Factors

Insufficient feedback from users	12,8 %
Requirements and specs incomplete	12,3 %
Requirements and expectations change	11,8 %
Insufficient support from management	7,5 %
...	...

Requirement

"A requirement is
an externally observable characteristic
of a desired system"

"The system should
have a red reset button"

Requirements Eng. (RE)

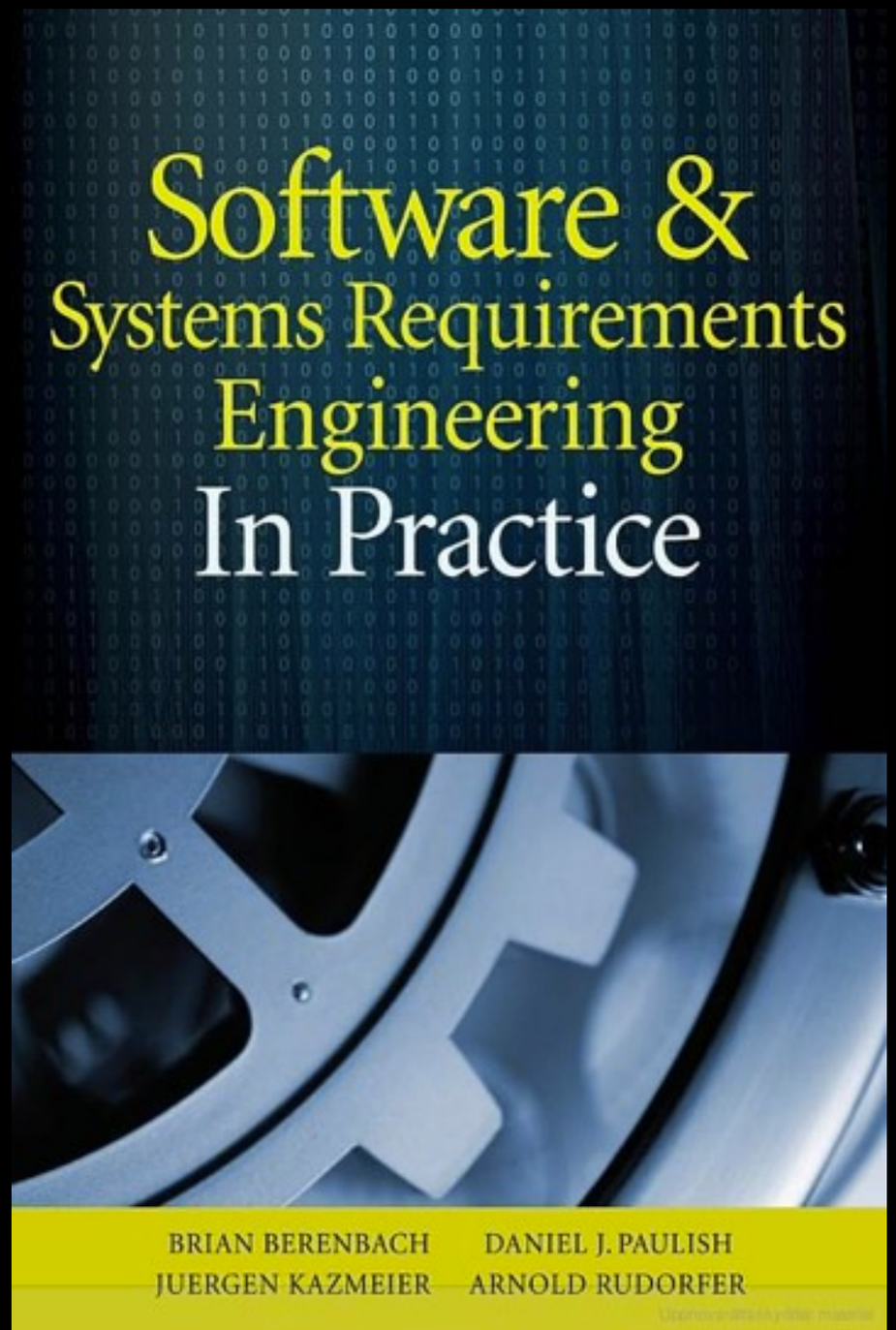
"RE is branch of SE concerned with real-world goals for, functions of and constraints on software systems..."

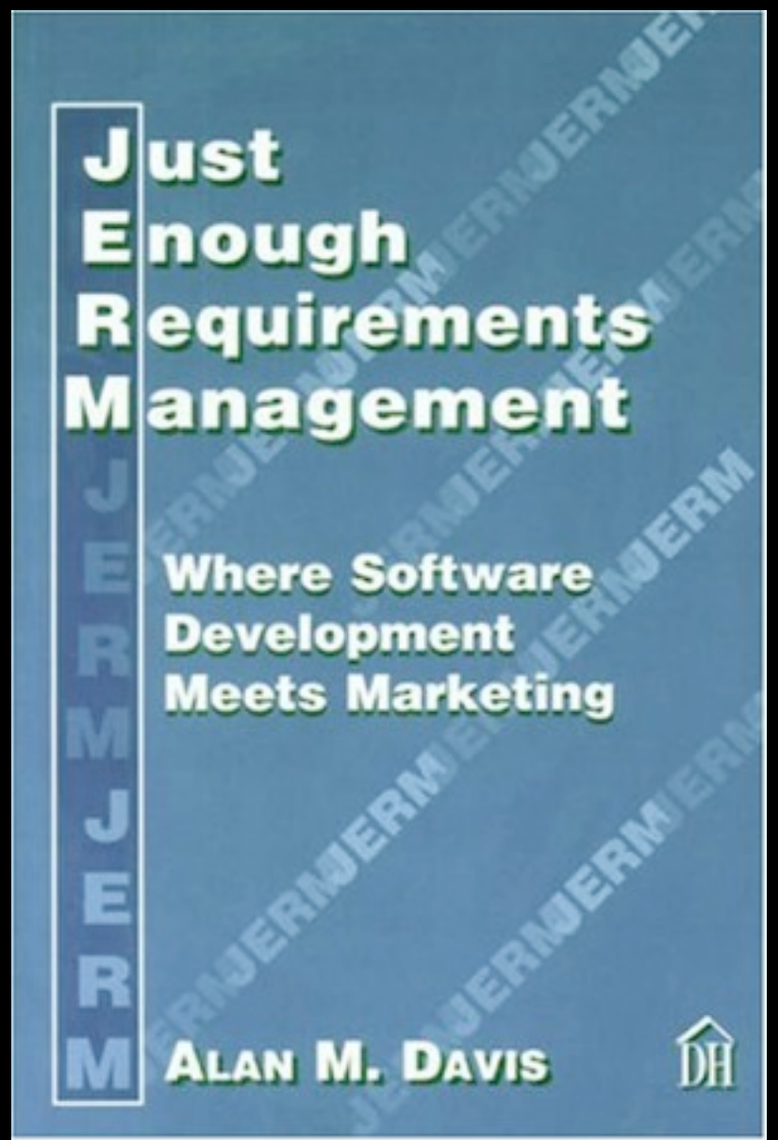
"...also concerned with relationship of these factors to precise specifications, to their evolution over time and across software families"

Course Structure

- Lectures
  - Elicitation, Specification, Agile RE, QA, Management, MDRE, ...
- Group assignment
  - Elicit, document/specify and prioritize requirements
  - Groups of 6-8 people, 2 customer interviews, 2 req formats
- Individual assignments
- Written exam

Material





+ research articles

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Course Team

Robert

Examiner,
Lecturer

Ali

Assistant

Ana

Assistant

Emil

Assistant

Note!

- Course starts tomorrow!
  - Be there! 10:00 HC4
- Home page:
  - http://www.cse.chalmers.se/~feldt/courses/reqeng/
- Speedy start: 6 lectures to first weeks!

SW Project Success Factors

Users are involved	15,9 %
Support in upper management	13,9%
Clearly defined requirements	13,0 %
Effective planning	9,6%
Realistic expectations	8,2 %
Small milestones for whole project	7,7%
...	...