Real-Time Design Patterns

News

- 05.04.05, Klünder: Questions of general interest can now be discussed in the forum.
- 09.03.05, Klünder: There is a new Template for the written elaborations. Just unzip and read frame.pdf.
- 02.02.05, Klünder: There will be a guided tour through the library on April 13 and April 20 each from 10:00am - 11:30am.
- 02.02.05, Klünder: The topics have been assigned.

Contents

A design pattern is a generalized solution for a frequently occuring problem. In this seminar we will discuss a bunch of design patterns from the embedded systems domain dealing with topics like concurrency, safety, reliability and memory management.

- Bruce Powel Douglass: Real-Time Design Patterns - Robust Scalable Architecture for Real-Time Systems, Addison Wesley 2003.

Schedule

There will be a guided tour through the library on April 20 from 10:00am - 11:30am for all students that registered for it.

The talks during the summer semester will be held each wednesday from 10:00am - 11:30am in AH III on the following dates:

Termin	Thema	Student(en)
25.05.2005	Chapter 2.3: The five views of architecture	Mehmet Erdem
25.05.2005	Chapter 2.4: Implementing Architectures	Sergej Fries
01.06.2005	Chapter 3: ROPES Prozess and using Pattern	Markus Kucay and Thomas Siegbert
15.06.2005	Chapter 4: Subsystem and Component	Matthias Moers, Lukas Spychalski and Ronny Seidel
22.06.2005	Chapter 5: Concurrency	Alexander Gurevich and Robert Mysliwczyk
29.06.2005	Chapter 6: Memory	Simon Völker and Eva Beckschulze
06.07.2005	Chapter 7: Resource	Markus Plum and Wenyun Quan
13.07.2005	Chapter 8: Distribution	Carsten Cordes and Swen Kühnlein
20.07.2005	Chapter 9: Safety and Reliability	Esther Horbert and Ines Färbe

Requirements

- Participation on all dates
- Getting familiar with the given topic on your own
- Written paper of 10-12 pages
- Talk of exactly 30 minutes
- The paper must be delivered to the tutor 2 weeks before the talk whereas the slides must be available 1 week before.
- The paper and slides have to be composed by yourself. All used sources and utilities have to be declared and all citations have to be indicated.

Tutor

- Daniel Klünder

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