



# T-106.420

# Concurrent Programming

Course organization

Fall 2005

Heikki Saikkonen



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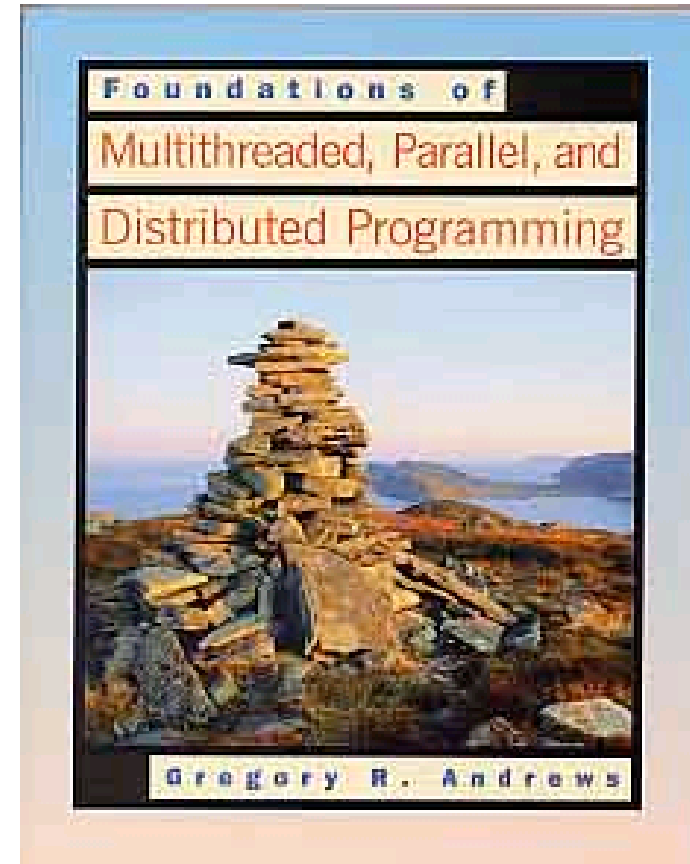
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# Literature

- Gregory R. Andrews:  
Foundations of  
Multithreaded, Parallel,  
and Distributed  
Programming,  
Addison-Wesley, 2000,  
ISBN 0-201-35752-6
- Lecture slides  
will be available on the  
course homepage under  
[Lectures](#)





# Schedule (subject to change)

20.9.	Kick off, organizational trivia. Introduction to concurrency	8.11.	Implementations, OS-kernel
27.9.	Shared state, atomic actions, traces, await-statement, correctness proofs	15.11.	Message Passing, Linda
4.10.	Safety and livenss, Scheuling, Critical sections, locks	22.11.	Remote Procedure Call
11.10.	Semaphores,Dining Philosophers, Readers and Writers	29.11.	Paradigms for Process Interaction, Distributed algorithms
18.10.	<i>Introduction to programming exercises</i>		
25.10.	Monitors	7-9.12	<i>Wrap up, place and time TBD</i>
1.11.	Concurrency and OO-programming Java Case Study	14.12.	Examination 16 -19. Halls BC, Main building



# Assignments

- There will 3 individual programming exercises as a course work
- One lecture (18.11.) is devoted to kick-off the exercises
- Other details of the exercises will follow
- There are no other home assignments.



# Location, Sources

- Lecture hall T1, Tuesdays 10-12
- web pages  
<http://www.cs.hut.fi/Studies/T-106.420/main.html>
- newsgroup  
<news://otax.hut.fi/opinnot.tik.rinnakkaisohjelmointi>
- assignment info and details will be announced later on the web pages and newsgroup



# Requirements

## Conditions of passing the course

- pass the exam
  - Parts 1 and 2 of the Book
  - Lecture material
- 3 individual course work exercises



# Exam(s)

- Next exam on December 14th, 2005
- Three more exams in 2006
- Exam signup via <http://webtopi.hut.fi>
  - closed 1 week before exam



# Contact info for Persons

Lecturer:

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Reception: Wednesdays 11-12, A205

Assistant:

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Reception: TBD



# Miscellaneous

- References to other material than the book will be explicitly pointed out
- Language
  - English for
    - lectures (as already noticed),
    - exam and course work
  - Finnish for
    - questions and feedback



Questions ?