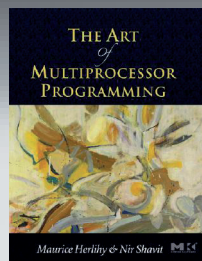# Prof. Pascal Felber @ ITEC
February 2012

We are very pleased that the guest lecture „Concurrency: Foundations and Algorithms" held by Prof. Pascal Felber, was such a success!

Since October 2004, he is a Professor of Computer Science at the University of Neuchâtel, Switzerland, working in the field of dependable and distributed systems.
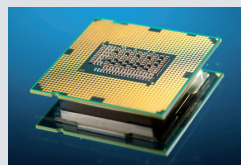
Guest Lecture
„Concurrency: Foundations and Algorithms"

Selected Topics in Computer and Network Architectures - 623.712

THE ART Of MULTIPROCESSOR PROGRAMMING

Maurice Herlihy & Nir Shavit

The course will be based on Maurice Herlihy and Nir Shavit`s textbook "The Art of Multiprocessor Programming"

Contact and information:
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ALPEN-ADRIA UNIVERSITÄT
KLAGENFURT | WIEN GRAZ

FAKULTÄT FÜR TECHNISCHE WISSENSCHAFTEN
Institut für Informationstechnologie

Prof. Pascal Felber
University of Neuchatel

Topics and Overview:

- Mutual Exclusion
- Concurrent Objects and Consistency
- Foundations of Shared Memory
- The relative Power of Synchronization Operations
- Universality of Consensus
- Spin Locks and Contention
- Monitors and Blocking Synchronization
- Concurrent Linked Lists
- Concurrent Queues and Stacks
- Concurrent Hashing
- Futures, Scheduling, and Work Distribution
- Barriers
- Transactional Memory

Basic knowledge of Java is required. Some knowledge of C is desirable, but not mandatory.

Schedule:

Monday, June 4, 2012: 02-04 p.m.
Wednesday, June 6, 2012: 10 a.m. - 02 p.m
Friday, June 8, 2012: 09-12 a.m. & 02-04 p.m.
Saturday, June 9, 2012: 09-12 a.m.
Monday, June 11, 2012: 02-04 p.m.
Wednsesday, June 13, 2012: 09-12 a.m.
Thursday, June 14, 2012: EXAM

LOGIN @ AAU.AT for detailed information and registration!