Reading Course: Recent Advances in Distributed and Parallel Computing (3-5hp)

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About the course

The overall goal of the course is to study recent research topics in parallel and distributed computing by:

- Researching literature in relevant conference proceedings and journals,
- Studying the literature, and
- Present the results of the study in a seminar talk and written scientific report.
Topics

- You propose!

- A few examples:
  - PGAS languages and their applicability to certain scientific domains
  - GPU programming
  - High level programming models
  - Adaptive scheduling
  - Performance analysis
  - Security in distributed systems
  - Data handling (access, map-reduce, parallel I/O, etc.)
Procedure

- Select a topic by Nov. 14

- Propose a reading list by Nov. 30
  - Propose an initial list of at least 5 papers
  - A total of at least 7-10 papers need to be analyzed

- Present the results in a 30 minutes seminar presentation
  - Schedule to be determined
  - During January and February

- Prepare a 8-10 pages scientific report incorporating discussions during the presentation
  - By March 31st
ECTS points and Assessment

- 3-5 ECTS points

- 3 points for
  - Approval of reading list
  - Delivery of seminar presentation
  - Attendance to at least $\frac{3}{4}$ of all seminars

- 2 additional points for
  - Scientific paper