6th BALTIC SEA CONFERENCE ON COMPUTING EDUCATION RESEARCH
Koli Calling

Program 2006

Thursday, November 9
17:00  The first bus transportation from Joensuu to Koli
Joensuu Science Park, 17:00, Joensuu, Airport 17:40 (flight AY489
arrives at 17:25), Joensuu, Railway station 17:55 (Arrivals: Train from
Helsinki and Turku at 17:45), Koli, 19:15
19.30  Registration
20.00  Cold buffet
       Sauna
20.40  The second bus transportation from Joensuu to Koli
Joensuu, Science Park 20:40, Joensuu, Railway station 20:55 (Arrivals:
Trains from Helsinki and Turku 20:50), Joensuu, Airport 21:25 (flight
AY3491 arrives at 21:10), Koli, 23:00

Friday, November 10
08.00 - 9.00  Breakfast
09.00 - 09.15  Opening. Anders Berglund
09.15 - 10.45  Session 1, Practical work. Chair: Tapio Salakoski
   The Unique Role of Lab Practical Classes in Computing Education,
       Simon, University of Newcastle, Australia; Michael de Raadt, University
       of Southern Queensland, Australia; Ken Sutton, Southern Institute of
       Technology, New Zealand; Anne Venables, Victoria University,
       Australia
   Modelling student behavior in algorithm simulation exercises with code
       mutation, Otto Seppälä, Helsinki University of Technology, Finland
   Do students SQLify? Improving Learning Outcomes with Peer Review
       and Enhanced Computer Assisted Assessment of Querying Skills,
       Michael de Raadt, Stijn Dekeyser, Tien Yu Lee, University of Southern
       Queensland, Australia
10.45-11.15  Coffee
11.15 - 12.45  Session 2, Early stages of learning CS. Chair: Lecia Barker
   Program Working Storage: A Beginner's Model, Evgenia Vagianou, The
       American College of Greece, Greece and University of Sussex Falmer,
       UK
   Test data generation for programming exercises with symbolic execution
       in Java PathFinder, Petri Ihantola, Helsinki University of Technology,
       Finland
   Learning Programming by Programming: a case study, Marko Hassinen,
       University of Kuopio, Finland, Hannu Mäyrä, University of Kuopio,
       Finland
12.45 - 14.00  Lunch
14.00 – 15.15 Invited speaker session 1

Defensive climate in the computer science classroom, Lecia Barker, University of Colorado, Boulder, USA (The paper is written by Lecia Barker, Kathy Garvin-Doxas, Michele Jackson. Lecia Barker is supported by a travel grant from the ACM)

15.15 – 15.45 Invited seminar session

The Development of Computer Science: A Sociocultural Perspective. Matti Tedre, University of Joensuu, Finland

15.45 - 16.15 Coffee

16.15 – 17.45 Session 3, Particular issues related to learning CS. Chair: Simon

Progress Reports and Novices' Understanding of Program Code, Linda Mannila, Åbo Akademi University, Finland

Moral Conflicts Perceived by Students of a Project Course. Tero Vartiainen, Turku School of Economics, Pori Unit, Finland

"I think it's better if those who know the area decide about it" - A pilot study concerning power in student project groups in CS, Mattias Wiggberg, Uppsala University, Sweden

17.45 - 18.00 Break

18.00 - 19.00 Poster / demo session. The posters and demos (except for computers and other valuable equipment) are available until Saturday, after dinner. Chair: Erkki Sutinen

ALOHA - A Grading Tool for Semi-Automatic Assessment of Mass Programming Courses, Tuukka Ahoniemi, Tommi Reinikainen, Tampere University of Technology, Finland

Plaggie: GPL-licensed Source Code Plagiarism Detection Engine for Java Exercises, Aleksi Ahtiainen, Sami Surakka, Mikko Rahikainen, Helsinki University of Technology

Educational Pascal Compiler into MMIX Code, Evgeny Eremin, Perm State Pedagogical University, Russia

Student Errors in Concurrent Programming Assignments, Jan Lönnberg, Helsinki University of Technology, Finland

Spatial Data Algorithm Extension to TRAKLA2 Environment, Jussi Nikander, Helsinki University of Technology, Finland

Creative Students: What Can We Learn From Them for Teaching Computer Science?, Ralf Romeike, University of Potsdam, Germany

19.30 - 20.30 Dinner

20.30 Free time (sauna etc.)
Saturday, November 11

07.00 - 09:00  Breakfast and registration

09.00 - 10.15  Invited speaker session 2

Valuing Computer Science Education Research?, Tony Clear, Auckland University of Technology, New Zealand

10.15 - 10.45  Coffee

10.45 - 12.15  Session 4, Theoretical aspects of computing education. Chair: Ari Kurhonen

Understanding of Informatics Systems: A theoretical framework implying levels of competence, Peer Stechert, University of Siegen, Germany

Most Common Courses of Specializations in Artificial Intelligence, Computer Systems, and Theory, Sami Surakka, Helsinki University of Technology, Finland

Is Bloom's Taxonomy Appropriate for Computer Science?, Colin Johnson, Ursula Fuller, University of Kent at Canterbury, England

12.15 - 13.15  Lunch

13.30 - 16.00  Free time to explore the Koli nature park

15.30 - 16.00  Coffee

16.00 - 17.30  Session 5, Learning to Program. Chair: Lauri Malmi

An Objective Comparison of Languages for Teaching Introductory Programming, Linda Mannila, Åbo Akademi University, Finland; Michael de Raadt, University of Southern Queensland, Australia

VirtualTutor: Automatic Tutoring Question Generation During Algorithm Simulation, Ville Karavirta, Ari Korhonen, Helsinki University of Technology, Finland

The Preference Matrix as a Course Design Tool, John Paxton, Montana State University - Bozeman, USA

17.30 - 17.45  Break

17.45 - 18.45  Pre-sauna speakers' corner: Interested participants may speak briefly, for a maximum of five minutes, about what they, in the context of future plans, find important, for example new research questions, or ideas about new projects. Priority is given to newcomers and PhD students. PhD students are expected to address some of the open questions and/or current problems/issues in their projects. The questions are then further discussed over dinner, in the sauna and in the bar. A maximum of two slides (transparencies, not Powerpoint) per person, preferably only one. Chair: Linda Mannila

19.30 - 20.30  Dinner

20.30  Free time (sauna etc.)
**Sunday, November 12**

07.00 - 09.00  Breakfast

09.00 - 10.00 **Session 7, Reflections on Students' Approaches to Learning.** Chair: Tony Clear

  *Student Perceptions of Reflections as an Aid to Learning*, Arnold Pears, Lars-Ake Larzon, Uppsala University, Sweden

  *A Qualitative Study of Reflective and Defensive Student Responses in a Software Engineering and Design Course*, Leslie Schwartzman, Roosevelt University, USA

10.00 – 10.30  Break.

10.30 - 11.00 **Discussion.** Topic to be decided during the conference. Chair: Arnold Pears

11.00 - 11.15 **Concluding remark.** Anders Berglund

11.30  **Departure**

  Bus transportation from Koli to Joensuu, Koli, 11:30, Joensuu, Airport

  13:00 (Flight AY3486 to Helsinki at 13:40), Joensuu, Railway station

  13:30 (Departures: Train to Helsinki at 15:10), Joensuu, Science Park

  14:00