

IV INTERNATIONAL DOCTORAL CONSORTIUM ON INFORMATICS AND INFORMATICS ENGINEERING EDUCATION RESEARCH: SCOPE, METHODS, AND VALIDATION

Vilnius University Institute of Mathematics and Informatics in cooperation with Research Council of Republic of Lithuania Lithuanian Computer Society

Senior Researchers

Prof. Erik Barendsen, Radboud University Nijmegen
Prof. Juris Borzovs, University of Latvia
Prof. Andrej Brodnik, University of Ljubjana, Slovenia
Prof. Robin Clark, Aston University, UK
Prof. Valentina Dagiene, Vilnius University
Prof. Gerald Futschek, Vienna University of Technology, Austria
Dr. Tatjana Jevsikova, Vilnius University
Dr. Eugenijus Kurilovas, Vilnius University
Prof. Lauri Malmi, Aalto University, Finland
Prof. Carsten Schulte, Berlin Freie University, Germany
Dr. Bronius Skūpas, Vilnius University, Vilnius Liceum
Dr. Mary Webb, King's College London, UK

December 3-7, 2013

Druskininkai, Lithuania

Short presentation of DC2012 you can watch at: http://www.youtube.com/watch?v=86e6-ibMilQ

The Fourth International Doctoral Consortium (DC) is organized by Vilnius University Institute of Mathematics and Informatics on December 3–7, 2013 in Druskininkai, Lithuania. The DC provides an opportunity for doctoral students to explore and develop their research interests in a workshop under the guidance of distinguished senior researchers. We invite students who feel they would benefit from this kind of feedback on their dissertation work to apply for this unique opportunity to share their work with students in a similar situation as well as senior researchers in the field. We welcome submissions from students at any stage of their doctoral studies.

The DC has the following objectives:

- Offer a friendly forum for doctoral students to discuss their research topics, research questions and design in the field of computing education / educational technology informatics engineering and education
- Provide a supportive setting for feedback on students' current research and guidance on future research directions
- Offer each student comments and fresh perspectives on their work from researchers and students outside their own institution, as well as help with choosing suitable methodology and strategies for research
- Support networking with other researchers in the informatics engineering education research field, and promote the development of a supportive community of scholars and a spirit of collaborative research
- Support a new generation of researchers with information and advice on research and academic career paths

Preparing and Submitting your DC Proposal

Each participant should submit an Extended Abstract of two A4 pages research description covering central aspects of your PhD work, which follows the structure, details and format specified in the submission template (VU2014-dc-template.doc). Key points include:

- 1. Your situation, i.e., the university doctoral program context of your work
- 2. Clear formulation of the research question(s)
- 3. Very short background/literature review of key works that frames your research
- 4. Identification of the significant problems in the field of research
- 5. Research objectives/goals
- 6. Sketch of the applied research methodology (data collection and analyzing methods)
- 7. Results to date and their validity
- 8. Current and expected contributions

The summary will be made available for other participants of the DC to allow providing feedback and preparing questions on the research. Since the goals of the DC include building community, participants will be expected to read all of the Extended Abstracts of your colleagues prior to the beginning of the consortium with a goal of preparing careful and thoughtful critique.

Applicants should send the research proposal by email to Valentina Dagienė (valentina.dagiene@mii.vu.lt) by November 20th, 2013. When submitting the applications, please put "VU-DC-013-<Last Name>" in the Subject line.

Upon Acceptance of your DC Proposal

Each student will present his or her work to the group with substantial time allowed for discussion and questions by participating researchers and other students. Each student should bring a poster for sharing with mentors and other students during the DC sessions. Students will have possibility to rethink and improve their submissions according to suggestions of senior researchers or other participants. The corrected posters will be presented at final session.

AGENDA

Tuesday, December 3

- 13:00 17.45 Arrival in Vilnius airport and transfer to Druskininkai
- 20:00 23.00 Welcome and discussions

Wednesday, December 4

- 07.30 09.00 Breakfast
- 09.00 11.00 Presentation and discussion by Prof. Dr. Lauri Malmi (Aalto university, Finland). An Overview of Computing Education Research – Research Topics and Research Processes
- 11.00 11.30 Coffee break
- 11.30 12.30 5 min challenge Presentation posters and key research questions by doctoral students (individual level). Chaired by Prof. Dr. Valentina Dagienė
- 13.00 14.00 Lunch
- 14.00 17.30 Discussion in groups organized by Dr. Mary Webb (King's College London, UK). How can qualitative research techniques support research in computer science /ICT education research? With coffee break at 16.00
- 15.30 16.00 Coffee break
- 18.00 19.00 Dinner
- 19.00 22.00 Late discussions

Thursday, December 5

07.30 - 09.00	Breakfast
09.00 - 10.00	Presentation by Prof. Dr. Carsten Schulte (Berlin Freie University, Germany): On Computer Science Education Research: Reality and Future
10.00 – 10.30	Coffee break

- 10.30 12.00 Group work: Students will be divided in 3-4 groups according to their topics, the research seniors will be appointed to each group.
- 12.00 13.00 Lunch
- 13.00 15.00 Excursion or/and cryotherapy
- 15.30 16.00 Coffee break
- 16.00 18.00 Group work: Improve your poster which summarizes your research: BIG research question, goal, subtasks, data collection and analysis methods, theoretical framework, scope, and use of results.
- 18.00 19.00 Dinner
- 19.00 22.00 Late discussions in groups

Friday, December 6

07.30 – 09.00	Breakfast
09.00 – 11.00	Prof. Dr. Andrej Brodnik (Ljublana University, Slovenia). Suggestions and criteria for writing informatics education doctoral thesis
11.00 – 11.30	Coffee break
11.00 – 13.00	Reading DC posters: All participants are asked to read the posters and write down their questions and comments
13.00 – 14.00	Lunch
14.00 – 15.30	Group work. Renewing DC posters
15.30 – 16.00	Coffee break
16.00 – 18.00	Groups overview. Summaries and suggestions by group leaders. General discussion, including a brainstorming session about current and future research topics in the area. Reflection from all participants.
18.00 – 20.00	Closing dinner

Saturday, December 7

09.30 Departure to Vilnius airport