



# 5<sup>th</sup> INTERNATIONAL DOCTORAL SCHOOL ON INFORMATICS EDUCATION AND EDUCATIONAL SOFTWARE ENGINEERING RESEARCH

Traditional annual event, organised since 2010 by the  
Vilnius University Institute of Mathematics and Informatics in cooperation with  
Lithuanian Computer Society

Organisers:  
Prof. dr. Valentina Dagienė, chair  
Dr. Tatjana Jevsikova  
Lina Cibulskaitė

November 26–30, 2014  
Druskininkai, Lithuania

The Fifth International Doctoral School (Doctoral Consortium) is organized by Vilnius University Institute of Mathematics and Informatics on November 26–30, 2014 in Druskininkai, Lithuania.

**The aims of the Doctoral School are:**

- To 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.
- To receive constructive feedback from their peers and senior researchers, to help with choosing suitable methodology and strategies for research.
- To support networking with other researchers in the informatics engineering education research field.
- To discuss any relevant questions related to research and academic life.

**Participants**

The School is designed primarily for students who are currently enrolled in any stage of doctoral studies with a focus on informatics / informatics engineering / computing education research. Students, who are considering doctoral studies but not have yet a formal doctoral student researcher status, may participate as well.

Senior researchers in the field will provide feedback and suggestions for improvement of the research proposals.

**Requirements**

Each participant should submit a document, which includes the following information:

- a brief background of the applicant including information about prior studies, research topic, publications if any, and possible teaching experience;
- a summary of his/her research, including motivation, any relevant background, and main literature to contextualize the research, research questions, methodologies used or planned, and possible results obtained;
- questions related to the research that the applicant would like to discuss and get feedback on in the doctoral school.

The summary will be made available for other participants of the doctoral school to allow providing feedback and preparing questions on the research.

# DOCTORAL SCHOOL AGENDA

## Wednesday, November 26

15:00	<i>Bus from Vilnius airport</i>
15:30	<i>Bus from Vilnius bus station</i>
18:30	<i>Dinner</i>
20:00	<i>Welcome and discussion (please bring your bath suits)</i>

## Thursday, November 27

07.30 – 09.00	<i>Breakfast</i>
09.00 – 11.00	Prof. Dr. <i>Andrej Brodnik</i> (University of Ljubljana, Slovenia). Suggestions and criteria for writing computer science education doctoral thesis.
11.00 – 11.30	<i>Coffee break</i>
11.30 – 13.00	Practical work and students' presentations in two groups: research goal and tasks, research plan and research methods, etc. (preferable by using slides) <i>Group 1. Computing education</i> research (chair prof. A. Brodnik). <i>Group 2. Technology enhanced learning</i> research (chair prof. M. Monga).
13.00 – 14.00	<i>Lunch</i>
14.00 – 16.00	Student's poster presentation: your BIG research idea (5 min. for each)
16.00 – 16.30	<i>Coffee break</i>
16.30 – 18.00	Reflection on students' posters: all participants will read posters and write down their questions and comments.
19.00 – 20.00	<i>Dinner</i>
20.00 – 22.00	Late discussions in groups

## Friday, November 28

07.30 – 09.00	<i>Breakfast</i>
09.00 – 11.00	Prof. Dr. <i>Erik Barendsen</i> (Nijmegen Rounbound University, The Netherlands). Investigating teacher knowledge and students' learning using PCK instruments, concept maps and learner reports.
11.00 – 11.30	<i>Coffee break</i>
11.30 – 13.00	Individual work. Improve (re-write) your poster which summarizes your research: BIG research question, goal, subtasks, data collection and analysis methods, theoretical framework, scope, and use of results
13.00 – 14.00	<i>Lunch</i>
14.00 – 16.00	Work in small groups (2-3 students with a senior researcher).
16.00 – 16.30	<i>Coffee break</i>
16.30 – 19.00	Continuation of the work in small groups.
19.00 – 20.00	<i>Dinner</i>
20.00 – 22.00	Read posters and write down your questions and comments

## **Saturday, November 29**

- 07.30 – 09.00 *Breakfast*
- 09.00 – 11.00 Dr. *Renata Burbaitė* (Panevėžys gymnasium). Using software to make research easier
- 11.00 – 11.30 *Coffee break*
- 11.30 – 13.00 Individual work. Improve your poster again
- 13.00 – 14.00 *Lunch*
- 14.00 – 16.00 Work in small groups (with a changed senior researcher)
- 16.00 – 16.30 *Coffee break*
- 16.30 – 19.00 Final presentation of your research work and discussion (15 min. for each student)
- 19.00 – 20.00 *Dinner*

## **Sunday, November 30**

- 07.30 – 09.00 *Breakfast*
- 10.30 *Departure to Vilnius airport*