



**10th International Doctoral Consortium on Informatics and
Informatics Engineering Education Research**
joint with *Nordplus* workshop
**Culturally Diverse Approaches to Learning Mathematics and
Computational Thinking**

December 2–6, 2019, Druskininkai, Maironio str. 22, Lithuania

AGENDA

Monday, December 2

- 15:00 (approx.) *Bus from Vilnius airport to Druskininkai*
19.00 *Welcome and dinner in cafe "Širdelė"*

Tuesday, December 3

- 08.00 – 09.00 *Breakfast*
09.00 – 10.30 *Arnold Pears (KTH – Royal Institute of Technology, Stockholm, Sweden).
Engineering Education Research: An Overview of Methods.*
10.30 – 11.00 *Coffee break*
11.00 – 12.00 *Gerald Futschek (Vienna University of Technology, Austria).
Suggestions and criteria for writing doctoral thesis.*
12.00 – 13.00 *Lunch*
13.00 – 14.30 *Doctoral student's posters presentation: BIG research idea (5 min. for each).
Questions and discussions*
14.30 – 15.30 *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.*
15.30 – 16.00 *Coffee break*
16.00 – 18.00 *Reflection on students' posters: all participants will read posters and write
down their questions and comments.*
18.00 – 19.00 *Dinner*
19.00 – 22.00 *Late discussions in groups.*

Wednesday, December 4

- 08.00 – 09.00 *Breakfast*
- 09.00 – 10.30 Erik Barendsen (Radboud University, The Netherlands).
Using PCK instruments, concept maps and learner reports.
- 10.30 – 11.00 *Coffee break*
- 11.00 – 12.00 Mikko-Ville Apiola and Peter Larsson (University of Turku, Finland).
Computational Thinking in the collaborative education platform ViLLE:
A Cultural viewpoint.
- 12.00 – 13.00 *Lunch*
- 13.00 – 15.30 Workshop on research methods (topics to be chosen together with the
participants). *Students will be divided in several working groups according to
their topic.*
- Group 1 (Mikko-Ville Apiola and Liudmyla Kryvoruchka);
Group 2 (Erik Barendsen and Tatjana Bulajeva);
Group 3 (Arnold Pears and Valentina Dagienė);
Group 4 (Gerald Futschek and Vladimiras Dolgopolas).
- 15.30 – 16.00 *Coffee break*
- 16.00 – 18.00 Continuation in groups.
In parallel: *Nordplus* partners discussion on teacher training material
developed by University of Turku.
- 18.00 – 19.00 *Dinner*
- 19.00 – 22.00 Groups presentations.

Thursday, December 5

- 08.00 – 09.00 *Breakfast*
- 09.00 – 10.30 Liudmyla Kryvoruchka (National University "Kyiv-Mohyla Academy",
Ukraine). Using PBL and P4C collaborative strategies for developing
research questions and new research ideas
- 10.30 – 11.00 *Coffee break*
- 11.00 – 12.30 Arnold Pears (KTH – Royal Institute of Technology, Sweden) and Valentina
Dagienė (Vilnius University). *Nordplus* project: Planning research on cultural
diverse approaches teaching mathematics and computational thinking.
- 12.00 – 13.00 *Lunch*
- 13.00 – 15.30 Practical work and students' presentations in groups: research goal and
tasks, research plan and research methods, etc. (preferable by using slides)
- 15.30 – 16.00 *Coffee break*
- 16.00 – 18.00 Group leaders' summaries and suggestions. General discussion, including a
brainstorming session about current and future research topics in the area.
- 18.00 – 19.00 *Dinner*

Friday, December 6

- 08.00 – 09.00 *Breakfast*
- 09.30 *Departure to Vilnius airport*