Topology, geometry, and function

Workshop / Seminar on topology and geometry of information visualization

Laboratory for Perceptual and Cognitive Systems, Faculty of Computing,
University of Latvia

19 Raina Blvd., Riga, Latvia, https://www.lpcs.lu.lv/upcoming-events/

June 1-2, 2018

PROGRAM

June 1

10 00 – 10 30	Registration + Coffee

Room 12

10 30	Welcome

10 35 – 11 00   Presentation of Lab's Project „Topological Modelling of Structural Alignment: A Topological and Experimental Analysis of Information Visualisation"

11 00 – 12 15   <u>Keynote</u>: Prof. Kenny Coventry
FBPS, FRSA, Head of the School of Psychology, University of East Anglia, UK
The psychological science of visual information: How to engage an audience in a multimedia world

12 20 – 13 05   Prof. Christian Freksa
Bremen Spatial Cognition Center, University of Bremen, Germany
Geometric reasoning about distances and angles with strings and pins

Lunch*	13 05 – 14 30

14 30 - 15 00   Krista Pētersone
Faculty of Geography and Earth Sciences & Laboratory for Perceptual and Cognitive Systems, Faculty of Computing, University of Latvia
Access to the spatial archives of property: What do boundaries show?

15 00 – 15 30   Jurģis Šķilters, Līga Zariņa, Gurjit Theara, & Juris Borzovs
Laboratory for Perceptual and Cognitive Systems, Faculty of Computing, University of Latvia
Visuo-spatial cognition and learning: Cautious correlations and tentative impacts

15 30 – 16 00   Līga Zariņa & Jurģis Šķilters
Laboratory for Perceptual and Cognitive Systems, Faculty of Computing, University of Latvia
Symmetry, geometry, and topology: Constraints of symmetry in form perception

16 00 – 16 45   Olga Matrosova
Faculty of Humanities, University of Latvia
Is the cat really in the tree? The way adults perceive basic locatives in the second language.

16 45 – 17 15   Coffee and discussion

Room 13   <u>Keynote</u> and *Accenture Mad Science Talk:*
17 30 – 18 30   Prof. Cees Van Leeuwen
Perceptual Dynamics Lab, University of Leuven, Belgium
Brain Unity and Brain activity duality

June 2
Museum Hall
(Room 415)

9 45	Coffee

10 00 – 11 15   Keynote:
Prof. Cees van Leeuwen
Perceptual Dynamics Lab, University of Leuven, Belgium
Dot lattices and brain dynamics

11 15 – 12 00   Dr. Stephen Lucek
University College Dublin, Ireland
Force-Dynamic and Geometry-based Prepositions in the Real World: The case
for gathering spontaneous wayfinding and storytelling data

12 00 – 12 45   Eglė Žilinskaitė-Šinkūnienė
Department of Baltic Studies, Vilnius University, Lithuania
Jurģis Šķilters, & Līga Zariņa
Laboratory for Perceptual and Cognitive Systems, Faculty of Computing, University of Latvia
Topology and geometry in Baltic: where is the dark circle?

Lunch*   12 45 – 13 30

13 30 – 14 30   Closing Keynote:
Prof. Kenny Coventry
FBPS, FRSA, Head of the School of Psychology, University of East Anglia, UK
What, where and how in spatial language. Where are we now?

14 30   Closing + Coffee

15 00   Social Event at the Latvian National Museum of Art
(NB: please sign up during registration; for registered participants only)

* Lunches are not included in participation.

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