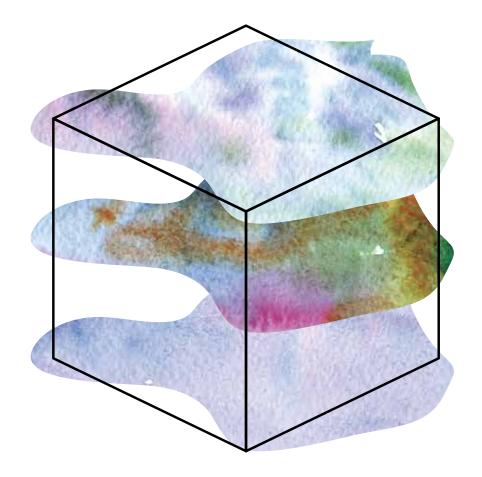
The 12th International Symposium of Cognition, Logic and Communication IMPACT OF VISUOSPATIAL SKILLS ON LEARNING



Organised by Laboratory for Perceptual and Cognitive Systems at the Faculty of Computing of the University of Latvia

Co-organised by the Faculty of Computing and Faculty of Business, Management and Economics of the University of Latvia

In cooperation with Accenture Latvia and Foundation of the University of Latvia

October 31 – November 1, 2017 Riga, Latvia



31.10 – 1.11.2017 Riga / Latvia





The 12th International Symposium of Cognition, Logic and Communication "IMPACT OF VISUOSPATIAL SKILLS ON LEARNING"

Main theme of the symposium

According to recent evidence from psychology and learning science, visuospatial skills are critical components in learning and might be a significant predictor of success in learning. Furthermore, external visuospatial representations scaffold variety of internal processes of reasoning ranging from everyday tasks to highly complex processes. This symposium will focus on the wide range of related topics.

Keynote speakers of the symposium are:

Prof. DAVID UTTAL, Northwestern University, USA Prof. BOB COECKE, University of Oxford, UK Prof. MIKE STIEFF, University of Illinois at Chicago, USA

Piano and guitar concert by Michael Holt

MICHAEL HOLT from Boston, USA, will conclude the symposium with a concert in the Lielā aula of University of Latvia. Everybody is welcome to the concert Entrance fee - donations

Tuesday, October 31

University of Latvia, Raiņa bulvāris 19, aud. 13 (1,

16:15 - 17:30 Registration

 $16.30-17.00 \ \mathrm{Coffee}$

 $17.00-18.30\ \text{Panel discussion on VISUO-SPATIAL COGNITION AND}\\ \text{ARTIFICIAL INTELLIGENCE (with Prof. Uttal, Prof. Coecke, Prof. Stieff, and Prof. Šķilters)}$

University of Latvia, Raiņa bulvāris 19, University restaurant "Daily" 1.

18.30 - 20.30 Welcome reception.

Wednesday, November 1

University of Latvia, Raiņa bulvāris. 19, Lielā aula 🕕

8.30 - 9.45 Registration

9.45-10.00 Symposium opening

 $10.00-11.00\ Plenary\ lecture\ /\ Accenture\ MadScience\ Talk\ (free\ public\ access)\ "WHEN,\ HOW,\ AND\ WHY\ DOES\ SPATIAL\ THINKING\ MATTER\ IN\ LEARNING\ SCIENCE\ AND\ MATHEMATICS?"$

David H. Uttal, President of Cognitive Development Society and Professor at the School of Education and Social Policy & Department of Psychology, Northwestern University, Evanston, IL, USA.

11.15 - 12.00 Parallel sessions

Lielā aula	Mazā aula	Auditorium 16
"COLOR VARIABILITY	"SPATIOTEMPORAL	"TOWARDS
IN INTERFACE	VS LANGUAGE	ENTREPRENEURSHIP
PERCEPTION"	SKILLS IN	AND PHILANTHROPY:
	CAUSATION"	METHOD
Prof. Signe Bāliņa		DEVELOPMENT"
Dr. Dace Baumgarte	Dr. Selma Coecke	Assoc. prof. Gundars
Dr. Līga Zariņa	(UCL, UK)	Bērziņš
Prof. Jurģis Šķilters		Dr. Inese Muzikante
(University of Latvia)		Prof. Ivars Austers
		(University of Latvia)

12.00-13.00 Lielā aula

Plenary session supported by Accenture "FROM QUANTUM PROCESSES TO COGNITION VIA PICTURES" Bob Coecke, Professor of Quantum Foundations, Logics and Structures, Department of Computer Science, University of Oxford, UK

Wednesday, November 1

University of Latvia, Raiņa bulvāris. 19, Lielā aula 🚺

13.00 – 14.00 Lunch (University Restaurant 'Daily')

14.00 - 15.00 Plenary session "THE VALIDITY OF VISUO-SPATIAL ABILITY FOR PREDICTING STEM ACHIEVEMENT." Mike Stieff, Professor, Department of Chemistry, Learning Sciences Research Institute University of Illinois-Chicago, IL, USA

15.00 – 16.30 Invited parallel workshops

Lielā aula	Mazā aula	
"THE PARADOX OF	"REASONING	
TRANSFER: LESSONS	PICTORIALLY:	
FROM SPATIAL	HOW, WHY	
THINKING"	AND WHEN"	
WORKSHOP	WORKSHOP	
with	with	
Prof. David Uttal	Prof. Bob Coecke	
(Northwestern	(Oxford University,	
University, USA)	UK)	

16.30 - 17.00 Coffee break (University Restaurant 'Daily')

17.00 Concert by Michael Holt (piano & guitar), Boston, MA, USA. Entrance fee - donations.

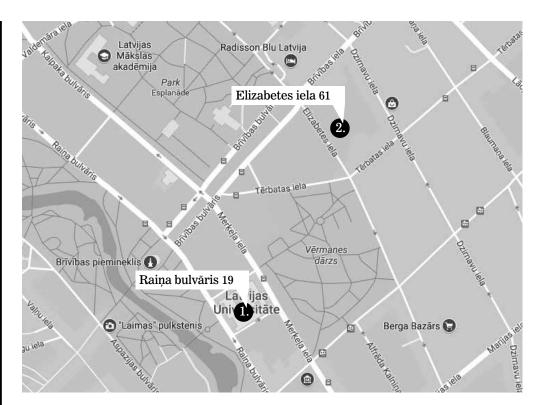
University of Latvia, Raina bulvāris 19, Lielā aula 🔒

19.00 Farewell Dinner.

Invitations only.

"Café Film Noir" at the Cinema Splendid Palace, Elizabetes iela 61 2.





1. University of Latvia, Raina bulvāris 19

2. "Café Film Noir" at the Cinema Splendid Palace, Elizabetes iela 61

Symposium webpage: http://www.lpcs.lu.lv/12th-international-symposium/

Symposium e-mail: lpcs@lu.lv www.facebook.com/PerceptualandCognitiveSystems/

