



PROGRAM AT A GLANCE

time	Wednesday June 22nd, 2016	time	Thursday June 23rd, 2016	time 9:00	Friday June 24th, 2016
10:00		9:00	Cognitive Load Theory in authentic learning / Gender		Cognitive Load Theory in languange learning
	Registration	10:40	Coffee Break	10:40	Coffee Break
11:00	Opening Ceremony	11:00	Poster presentation 2	11:00	Feedback and Outlook
11:30	Keynote	12:00	Junior Researchers'	12:00	Keynote
12:30	Lunch Break		Keynote		Reynote
13:30		13:00	Lunch Breack	13:00	Lunch Break
13:30	Cognitive Load Theory and regulation	14:00	Measuring Cognitive	14:00	
15:10	Coffee Break		Load		
15:30	Worked examples	15:40 16:00	Coffee Break		
17.10			Gestures and Motion		
17:10	Poster presentation 1	17:40	Coffee Break		World Heritage Zollverein Tour
18:00	Issues in Cognitive Load research	18:00	Cognitive Load Theory and testing		
		20:00	Gala dinner		



Wednesday, June 22nd, 2016

11:30 to 12:30: Keynote

Chair: Roland Brünken

Tina Seufert

Self-Regulation and Cognitive Load in Multimedia Learning

13:30 to 15:10: Cognitive Load Theory and regulation

Chair: Detlev Leutner

Jimmie Leppink, Tamara van Gog, Liesbeth Kester, Fred Paas, Paul Chandler, Jeroen Van Merriënboer

Effects of metacognitive checklists on self-regulated learning skills

Gertjan Rop, Peter Verkoeijen, Tamara Van Gog

The redundancy effect disappears because people learn to ignore the content of irrelevant information

Alexander Eitel, Katharina Scheiter

Implementation intentions to process pictures early foster comprehension – for those who follow them

Tim Kühl, Alexander Bertrams

The influence of ego depletion on learning with inference prompts vs. no prompts

15:30 to 17:10: Worked examples

Chair: Alexander Renkl

Matthias Schwaighofer, Markus Bühner, Frank Fischer

Executive functions as moderators of the worked example effect: when shifting is more important than working memory capacity

Bing Ngu, Huy Phan

Learning to solve trigonometry problems: A comparative study of the analogical problem-solving, worked example and problem-solving approaches

Ouhao Chen, Yan She, Slava Kalyuga, Siqing Lian, John Sweller

The isolated-element effect, the worked example effect and the generation effect

Milou van Harsel, Peter Verkoeijen, Tamara van Gog

Sequencing example study and practice problem solving in higher technical education

Katrin Schuessler, Jenna Koenen, Elke Sumfleth

Segmenting or self-explanation prompts – the impact on learning with non-algorithmic worked examples



17:10 to 18:00: Poster presentation 1

1. Martine Baars, Tamara Van Gog, Anique De Bruin, Fred Paas

Self-regulated learning when solving problems and studying worked examples: the relationship between mental effort and judgements of learning

2. Roman Abel, Martin Haenze

Arranging solution steps and solving subtasks. Which kind of guidance do learners really need?

3. Jaewon Jung, Dongsik Kim, Chungsoo Na

Effects of WOE presentation types used in pre-training on the Cognitive Load and comprehension of content in animation-based learning environments

4. Brendan Bentley, Gregory C.R. Yates

Cognitive Load and calculators, a classroom study

- 5. Vincent Hoogerheide, Margot van Wermeskerken, Sofie Loyens, Tamara van Gog

 Testing the model-observer similarity hypothesis with video modeling examples
- 6. Maria Wirzberger, Maik Beege, Sascha Schneider, Steve Nebel, Günter Daniel Rey

 CLT meets WMU: Simultaneous experimental manipulation of load factors in a basal working memory task
- 7. Thilo Joachim Ketschau

Cognitive Load as criterion for item difficulty in case of complex problem solving – a quantitative approach with standardized test items

8. Yuan Gao, Yuling Hsu, Tzu-Chien Liu, John Sweller

Effects of instructional guidance with varying details of representations and learning procedures on learning with computer simulations for novices

9. Siti Nurma Hanim Hadie, Asma' Hassan, Saiful Bahri Talip, Zul Izhar Mohd Ismail, Ahmad Fuad Abdul Rahim

Evaluation of students' performance after a Cognitive Load Theory-based gross anatomy lecture

10. Paul Blayney

Improving adaptive instruction with a limited item speed test

18:00 to 19:00: Issues in Cognitive Load research

Chair: Ferdinand Stebner

Sébastien Puma, Nadine Matton, Pierre-Vincent Paubel, André Tricot

Taking time into account for studying Cognitive Load Theory: using the time based resource sharing model

Huei-min Wu, K.H. Lei, T.Y. Tso, H.C. Huang, C.J. Lin

Element interactivity: How many interacting elements are students able to handle?



Tamara van Gog, Tim van Marlen, Margot van Wermeskerken

Look at you! Natural and artificial gaze guidance in video modeling examples



Thursday, June 23rd, 2016

09:00 to 10:40: Cognitive Load Theory in authentic learning / Gender

Chair: Roland Brünken

Klaus Stiller, Annamaria Köster

Cognitive Loads and training success in a video-based online training course

Gerry Sozio, Shirley Agostinho, Sharon Tindall-Ford

Investigating product-oriented versus process-oriented worked examples to support understanding of quality teaching principles

Thomas Dickmann, Maria Opfermann, Stefan Rumann

It's all about visualizations: the relation between visual model comprehension, cognitive load and knowledge for learning chemistry at university.

Andy Bevilacqua, Fred Paas, Genomary Krigbaum

Effect of motion in the far peripheral visual field on cognitive test performance and Cognitive Load

Mona Wong, Juan Cristobal Castro-Alonso, Paul Ayres, Fred Paas

Solving the gender difference in instructional animation researches

11:00 to 12:00: Poster presentation 2

1. Dayu Jiang, Slava Kalyuga, John Sweller

Studies in the expertise reversal effect in teaching foreign language listening skills

2. Charly Eielts, Tamara Van Gog, Fred Paas

The effect of finger tracing on chinese character learning

3. Daniel Choi, Kim Ouwehand, Fred Paas

Effects of eliciting gestures during task performance on Cognitive Load.

4. Alexandra Stümmler, Matthias Wilde

Effects of scaffolds on motivation and learning success in experimental tasks in biology lessons

5. Julia Ollesch, Markus Vogel, Tobias Dörfler

Multimedia-based teaching of mathematics - also a question of Cognitive Load

6. Huy Phan, Bing Ngu, Alexander Yeung

Achieving optimal best: The use of Cognitive Load Theory in mathematical problem solving

7. Margina Ruiter, Fred Paas, Sofie Loyens

Effect of cycling action on lecture retention, attention and mood

8. Alexander F. Koch

Why cognitive load may indicate you teach competently: new ideas in Cognitive Load Theory research.



9. Tugce Durgut, Bianca Böhm, Svenja Schmidt, Yonca Kaya, Kübra Kenger

Shorter learning time and better performance through predetermined learning time

10. Christian Kißler, Meryem Göcer, Nurgül Emlikli

How does a test announcement affect the learning performance and cognitive load of students mediated by test anxiety and motivation?

12:00 to 13:00: Junior Researchers' Keynote

Chair: Slava Kalyuga

Jimmie Leppink

Current trends and future directions in research inspired by Cognitive Load Theory

14:00 to 15:40: Measuring Cognitive Load

Chair: Ferdinand Stebner

Carmen Candel, Raquel Cerdán, Cristina Candel

Cognitive Load when reading from different sources, a matter of interactivity.

Babette Park, Andreas Korbach, Roland Brünken

Differentiating measurement of Cognitive Load factors in multimedia learning: a comparison of different measures

Muhamad Saiful Bahri Yusoff, Siti Nurma Hanim Hadie

Assessing validity of Cognitive Load scale in a problem-based learning setting

Sabrina Navratil, Tim Kühl, Ferdinand Stebner, Benedict Fehringer, Stefan Münzer

The index of cognitive activity – a promising objective measure of Cognitive Load when learning with different visualization formats

16:00 to 17:40: Gestures and Motion

Chair: Detlev Leutner

Nadine Marcus, Paul Ayres, Niloufar Lajevardi

Does gesturing improve the learning of human motor skills for children, when learning from instructional animation and statics?

Paul Ayres, Ruth Mierowsky, Nadine Marcus

The impact of gesturing when learning to play piano clips from animations

Steffi Zander, Stefanie Wetzel, Sven Bertel

Effects of using touch-gestures on mobile devices on elementary school children`s solving of spatial tasks



Alexander Skulmowski, Günter Daniel Rey

Embodied Cognitive Load Theory: costs, benefits and resources determine embodied learning outcomes

Andreas Korbach, Paul Ginns, Roland Brünken, Babette Park

Effects of tracing gestures: an eye-tracking study

18:00 to 19:00: Cognitive Load Theory and testing

Chair: Alexander Renkl

Tino Endres, Shana Carpenter, Alf Martin, Alexander Renkl

Constructive retrieval by prompted recall

Julian Roelle, Kirsten Berthold

Test-based learning: Inconsistent effects between higher and lower level test questions

Barbara Frank, Merle Lau, Annette Kluge

The effect of testing for complex cognitive skill retention in a fixed sequence task, a dual task and a decision making task



Friday, June 24th, 2016

09:00 to 10:40: Cognitive Load Theory in languange learning

Chair: Roland Brünken

Stéphanie Roussel, André Tricot, John Sweller

Is learning content and a second language simultaneously a good idea?

Dominik Rumlich, Ferdinand Stebner

Cognitive Load Theory in the context of bilingual education: exploring unchartered territory

Claudia Leopold, Nina Fröde, Stephan Dutke

Seductive details in foreign language learning

Olga Ignatova, Slava Kalyuga, John Sweller

The imagination effect when learning auditory linguistic material

You-Hsuan Chang, Tzu-Chien Liu, Yi-Chun Lin

Effects of computer-mediated dictionaries assisted learning with checking-meaning function on vocabulary learning and reading comprehension

12:00 to 13:00: Keynote

Chair: Detlev Leutner

Ralf Rummer

Text modality, cognitive load, and desirable difficulties