

## 2024 Conference Presenters' Program

Wednesday, 21.08.2024

**08:15 - 9:00**

Information desk in front of Room 010

Registration, Pretzels & more

**9:00 - 9:30**

Rooms 036 live & 037 stream

Opening ceremony

**9:30 - 10:30**

JURE Keynote

Rooms 036 live & 037 stream

Tino Endres

When (Not) to Use Retrieval Practice - Potentials and Limitations of the Testing Effect in Applied Learning Contexts

**10:30 - 11:00**

Location

Coffee break

**11:00 - 12:00**

**Session A**

*No or not perfect data - I*

Room 037

*Chair:* Andreas Lachner

ChatGPT and Literary Writing: Transdisciplinary Instructional Design Approach

Jennifer Mueller et al.

Technology-supported Cooperative Learning: a way to boost learning and socioemotional skills

Benedetta Zagni et al.

Testing Constructive Retrieval in the Classroom - Findings From Two Field Experiments

Dwayne Lieck et al.

What works best? - Supporting pre-service teachers' critical reflexive AI Literacy

Jana Kemmler et al.

*Single papers - Cognitive skills & Processes I*

Room 036

*Chair:* Salome Wagner

From Passive to Metacognitive: The Effect of Mode of Engagement on Chemistry Learning Outcomes

Yoana Omarchevska et al.

Online Learning on Clearinghouse Websites for Evidence-based Education: A Matter of Experience

Marcel Capparozza et al.

Remembering knowledge levels of different learning partners

Oktay Ülker et al.

Visual processing of computer-based feedback: Is visual attention predictive for learning?

Thérèse Eder et al.

*Single papers - Competencies*

Room 106

*Chair:* Armin Fabian

Academic Self-Concept Determines the Effectiveness of Learning by Explaining

Leonie Sibley et al.

Promoting the quality of feedback of prospective teachers in computing education

Thomas Schmalfeldt

Teachers' self-reported and actual TPACK - New results on their relation and gender differences

Timo Kosiol et al.

**12:00 - 13:00**

Location

Lunch

**13:00 - 14:20/ 14:30**

**Session B**

*Symposium I - Advancing Adaptivity of Support in Digital Learning Environments: Focusing on the Adaptivity Design*

Room 036

*Chair:* Michael Nickl/Leonie Sibley

Organizers: Michael Nickl, Daniel Sommerhoff

Identifying Starting Points for Designing Adaptive Guidance in Productive and Vicarious Failure

Charleen Brand et al.

Probability Levels in Adaptive Learning Technologies: What Works for Whom?

C.A.N. Knoop-van Campen et al.

Adaptive Feedback from AI in Simulations for Teacher Education: A Replication in the Field

Elisabeth Bauer et al.

Adaptive Real-Time Scaffolding for Pre-Service Teachers in a Video-Based Simulation

Michael Nickl et al.

Discussant: Manuel Ninaus

*Symposium II - Synthesizing Instructional Design Principles and Teacher Education*

Room 037

*Chair:* Jasmin Bauersfeld/Matthias Nückles

Organizer: Jasmin Lilian Bauersfeld, Matthias Nückles

Preservice teachers' analysis of video: Investigating professional vision and multimedia design

Meg Farrell et al.

How Can the Acquisition of Complex Teaching Skills be Optimally Fostered?

Hadmut Hipp et al.

The effect of expert feedback on pre-service teachers' peer feedback quality and beliefs

Christopher Neil Prilop et al.

Before or After? Sequencing Concepts and Video-based Analyses for Different Teacher Education Phases

Jasmin Lilian Bauersfeld

Discussant: Fritz C. Staub

### Single papers - Higher Education

Room 106

Chair: Tanja Habermeyer

Delving into Data on Students' Instructional Knowledge: A Review of the Empirical Research

Morane Stevens et al.

Instructional Design of Time-Management Interventions to Improve Performance in Higher Education

Sebastian Trentepohl et al.

Learners' perceived relatedness in hybrid collaboration compared to F2F or remote settings

Sabine Schermeier et al.

Learning Analytics for Exercise Sessions: Addressing the Tensions of Cognitive & Metacognitive Goals

Zhenyu Cai et al.

### 14:35 - 15:35

### Session C

Lightning round 1: ICT1 + Posters A1-A9

Chair: Julian Roelle

Room 036

Lightning round 2: ICT2 + Posters A10-B5

Chair: Salome Wagner

Room 037

Lightning round 3: ICT 3 + Posters B6-B13

Chair: Vincent Hoogerheide

Foyer

### ICT Demo

ICT 1 Enhancing STEM Education with an AI-powered System that promotes Interactive Learning and Engagement

Marei Beukman et al.

Room 028

ICT 2 AutoTutor for adult reading comprehension (ARC) 2.0: Present and imagined designs

John Sabatini et al.

Room 029

ICT 3 Graveler - Experiencing Knowledge through Play

Kevin Körner et al.

Room 011

### Posters - Group A

Around Room 036

A1 A psychological platform for GenAI and human co-piloting in education

Luke Fryer & Kaori Nakao et al.

A2 Chatbots in Education: A Systematic Review of the Underlying Technology and their Grounding Theory

Tim Debets et al.

A3 Digital media education approaches to GenAI in schools: a latent profile analysis

Tessa Consoli et al.

A4 Empowering teachers to co-create learning experiences with AI

Thomas Frøsig et al.

A5 How chatbots support student motivation in learning: A scoping review

Weijiao Huang et al.

A6 Is ChatGPT a beneficial peer? Analysis of peer assessment behavior and critical thinking

Weijun Li

A7 Human-Centered AIED - Ethical Agents in Education

Birk Thierfelder et al.

A8 Integrating student stakeholders in the design of a conversational agent for EFL in German schools

Elizabeth Bear et al.

A9 Will GenAI Make the World a Better Place? Let's Explore Students' Expectations

Alberto Cattaneo et al.

A10 Exploring the effect of content placement when learning in augmented reality in nature

Jule Krüger et al.

A11 Modality Principle in Immersive Virtual Reality: An Eye-tracking Study

Noé Monsaingeon et al.

A12 Immersive VR Learning Environments: Coherence Formation and Effects of Environmental Details

Christian Hartmann et al.

A13 When seeing is not helping: Signaling germ contamination hinders performance and immersion in iVR

Juliette Desiron et al.

### Posters - Group B

Foyer

B1 Addressing teachers' needs: Design-based research to sustainably implement an ITS

Julia Schmidt-Peterson et al.

B2 Can using an ITS accompanied by teacher training foster teachers' motivation?

Katharina Wendebourg et al.

- B3 Does Student Agency Effect Learning Behavior and Success in a CBLE with Automated Formative Feedback  
Vroni Barkela et al.
- B4 Does the Gamification of an Intelligent Tutoring System for 7th Graders Affect Their Motivation?  
Cora Parrisius et al.
- B5 Tech-Assumptions and Innovation: A study of Robotic Interactive Learning in Social Work  
Noemi Altendeitering et al.
- B6 Relationship between the Usage of ITS and Learning Gains in Mathematics in Secondary Education  
Julius Schaaf et al.
- B7 Exploring Uncertainty Management in Engineering Design Teams in a CAD-enhanced Learning Environment  
Hannie Gijlers et al.
- B8 Exploring Students' Perceptions of Engaging in Anonymous Discussions in UK University Classrooms  
Peiyu Wang et al.
- B9 Instructional Effectiveness of Comics in Science Education. A Meta-Analysis  
Tom Jungbluth et al.
- B10 Predictors and Consequences of Learning Behavior: Personality, Motivation, and Learning Outcomes  
Hannah Deininger et al.
- B11 Exploration of gender differences in engagement and learning in a collaborative climate change game  
Chi-Tsun Wang et al.
- B12 Does Segmenting Work? Enhancing Teachers' Professional Vision  
Franziska Tschönhens et al.
- B13 Does video playback speed affect learning in different age groups?  
Martin Merkt et al.

**15:35 - 16:05** Location

Coffee break

**16:05 - 17:05** **Session D**

*Single papers - Artificial Intelligence* Room 036

*Chair:* Daniel Bodemer

Co-designing a rapid review: What do teachers want to know about AI use in K-12 classrooms?

Meg Farrell et al.

Exploring GenAI Use Patterns in Swiss Upper Secondary Schools: Insights from Latent Profile Analysis

Miria Hartmann et al.

Preservice teachers' perceptions of and readiness for teaching and learning with AI

Eliana Brianza et al.

The role of teaching and teachable GPT-based agents in computer-supported collaborative learning

Albulene Grajcevcic et al.

*Single papers - Immersive Technologies I* Room 037

*Chair:* Guido Makransky

Becoming a tree: Immersive VR induces compassion for nature

Pia Spangenberg et al.

Leveraging the Potential of Immersive Virtual Reality Environments for Creativity Development

Enikő Orsolya Bereczki et al.

Look at me! Can a pedagogical agent facilitate orientation and support learning in VR?

Daniela Decker et al.

Virtually Calling: How Online Prompting Can Make or Break the Immersive Learning Experience

Valentin Riemer et al.

*Single papers - Video-based learning* Room 106

*Chair:* Martin Merkt

A Talking Head as a Retrieval Cue? Instructor Presence in the Learning and Testing Phase

Christina Sondermann et al.

Investigating the effects of the instructor's accent on non-native learners in multimedia learning

Felicia Meusel et al.

Learning from technical tutorials: Retrospective note prompts foster learning processes and outcomes

Simon A. Schriek et al.

Should the instructor be shown in instructional videos in higher education? Three field experiments

Steffi Heidig et al.

**17:10 - 18:10** **Session E**

*Single papers - Cognitive skills & Processes II* Room 036

*Chair:* Juliette Désiron

A mixed-methods study on learner-IVR interactivity, agency, cognitive load and learning outcomes

Anu Lehtikko et al.

Exploring the visual aesthetic principle in instructional design

Diana Pak et al.

Generative Learning by Learning Journals. Mechanisms Underlying the Medium Effect

Florian Luft et al.

The interplay of narrative and feedback in educational AR games

Julia Flottmann et al.

*Single papers - Emotion, Affect & Self-regulation*

Room 037

*Chair:* Salome Wagner

Capturing Students' Emotional Responses during Scientific Inquiry with a Sensor Wristband

Heide Sasse et al.

Feedback on Self-Assessment Accuracy: Challenge or Threat?

Tamara Van Gog et al.

Separating prior knowledge from acquired knowledge in PISA - Learning in the Digital World

Leonard Tetzlaff et al.

Shifting Relations: Time-Dependent Effects of Emotion Regulation in Educational Gaming

Valentin Riemer et al.

*Single papers - Educational Technologies*

Room 106

*Chair:* Alberto Cattaneo

Benefits and Pitfalls of Integrating Mindfulness into Digital Learning Games

Enikő Orsolya Bereczki et al.

Effects of Using Digital Technologies in Learning

Margus Pedaste et al.

How can teachers be supported in interpreting computer-based formative assessment results?

Sarah Bez et al.

**18:20 - 22:00**

Location

Opening reception

Thursday, 22.08.2024

**9:00 - 10:00**

Keynote

Rooms 036 live & 037 stream

Martina Rau

How to Use Visual Representations Effectively - With and Without the Help of Educational Technologies

**10:00 - 10:30**

Location

Coffee break

**10:30 - 11:50/ 12:00**

**Session F**

*Symposium III - Innovative methodologies to capture dynamics of collaborative learning in digital environments*

Room 036

Chair: Armin Weinberger

Organizer: Chia-Yu Wang

Impact of cultural diversity in collaborative clinical reasoning argumentation in synchronous CSCL

Hannie Gijlers et al.

When talkative wrongs impede the rights: Scaffolding novelty and reference for transactive discourse

Nóra Eva Spengler et al.

Analyzing learner types and outcomes for learning dynamics in a collaborative climate change game

Chia-Yu Wang et al.

Discussant: Anne Deiglmayr

*Symposium IV - The elements of emotional design under the microscope of multimedia learning*

Room 037

Chair: Kaja Bergmann

Organizers: Nadine Scheller, Sascha Schneider

Make it human: Enhance learning and motivation through anthropomorphism

Nadine Scheller et al.

The Intertwining of Information Relevance and Colorfulness in Multimedia Learning

Sascha Schneider et al.

Benefits and Moderators of Enthusiastic Pedagogical Agents in Digital Learning Environments

Maik Beege

Look Like Me, Act Like Me? Key Requirements of Model Observer Similarity in Emotional Design

Charlotte Vössing et al.

Discussant: Juliette Desiron

*Single papers - Higher Education & Self-regulation*

Room 106

Chair: Roman Abel

Interleaved practice in foreign language grammar learning: A field study

Judith Schweppe et al.

Investigating the Screen Inferiority Effect in a Naturalistic and Ecologically Valid Setting

Emely Hoch et al.

Learning with interactive, dynamic visualizations - effects of technology and with technology

Josef Guggemos et al.

Promoting self-regulation during inquiry learning in science education

Tessa Eysink et al.

The Use of AI-Generated Learning Journals to Support Learners' Use of Effective Learning Strategies

Nina Udvardi-Lakos et al.

**12:00 - 13:00**

Location

(Mentoring) Lunch

**13:00 - 14:20/ 14:30**

**Session G**

*Symposium V - Instructional Principles for Teaching and Learning with Immersive Virtual Reality Technology*

Room 036

Chair: Tina Seufert

Organizer: Miriam Mulders

A Value Added Study: Drawing and Explaining as Generative Learning Strategies when Learning with VR

Miriam Mulders et al.

Re-experiencing: a novel generative learning strategy in Extended Reality

Valdemar Stenberdt et al.

Collaborative Learning in VR: Impact of Signaling on Learning Outcomes and Cognitive Load

Patrick Albus et al.

Combining instructional design principles enhances learning with immersive virtual reality

Josef Buchner

Discussant: Christian Hartmann

*Symposium VI - Customizable Classrooms: Adaptive Learning Environments in Schools*

Room 037

Chair: Sarah Hofer

Organizer: Katharina M. Bach

Adaptivity in schools: A review of context, implementation, learner characteristics, and goals

Katharina M. Bach et al.

Individualizing learning from instructional videos with adaptive practice questions

Shelbi Kuhlmann et al.

Primary school teachers' skills to perceive, interpret and make decisions based on dashboards

Stefanie Vanbecelaere et al.

Adaptive constructive support in dyadic teacher-student interactions

Britta Wenzel

Discussant: Leonard Tetzlaff

**Single papers - Instructional Design & Text Graphics Comprehension**

Room 106

Chair: Marc Rodemer

Fostering Deep Understanding of Science Concepts in an Online Learning Environment

Man Su et al.

Influence of erroneous examples on learning gain and cognitive load in chemistry

Sonja Dieterich et al.

Sequence Analysis in E-Book Learning Patterns: Insights for teachers, students, developers

Yaroslav Opanasenko et al.

The influence of hand proximity on text comprehension: the role of individual differences.

Romy Brömme et al.

The role of study sequence and self-explanation for primary students' conditional strategy knowledge

Nike Scheitz et al.

**14:35 - 15:35**

**Session H**

Lightning round 1: ICT1 + Posters C1-C9

Chair: Sascha Schneider

Room 036

Lightning round 2: ICT2 + Posters C10-D5

Chair: Juliette Désiron

Room 037

Lightning round 3: Posters D6-D14

Chair: Tanja Habermeyer

Foyer

**ICT Demo**

ICT 1 DOCommunication: A digital game-based learning tool to foster doctor-patient communication skills

Marco Rüth et al.

Room 028

ICT 2 The ClassVRoom App for Teacher Education

Eliana Brianza et al.

Room 029

**Posters - Group C**

Around Room 036

C1 A review of large language model (LLM) chatbot-enhanced instructional activities in higher education

Ismail Celik et al.

C2 Co-Designing AI-supported Instructional Approach to Enhance Science Learning

Man Su et al.

C3 Teacher Orchestration (Load) in Synchronous Hybrid Education: Towards a Conceptual Framework

Tine Keulemans et al.

C4 Effects of Generative Artificial Intelligence on Instructional Design Outcomes

Kristina Krushinskaia et al.

C5 Natural Language Processing for Automated Adaptive Guidance

Sarah Bichler et al.

C6 Embracing the Challenge: Predicting Self-Testing in Non-Formal Online Courses Using Machine Learning

Maria Klose et al.

C7 Role of Teacher Ownership in Technology Integration in K-12 Education System.

Bikash Chetry et al.

C8 Pre-service teachers' characteristics' influence on pupils' outcomes in digitization-related lessons

Nicoletta Bürger et al.

C9 Detecting distributed practice in trace data: A comparison of different operationalizations

Lea Nobbe et al.

C10 Comparing Online and In-Person Grades with the Same Instruction: A Natural Experiment in COVID-19

Caitlin Kirby et al.

C11 Associations of digital feedback, school achievements and absences

Sanna Oinas et al.

C12 An fNIRS study on reading sentences in hand proximity: The influence of cognitive flexibility

Birgit Brucker et al.

C13 Enhancing Climate Change Action Experience Through Scaffolding-Based Collaborative Educational Game

Hsin-Chueh Chen et al.

**Posters - Group D**

Around Room 036

D1 Effectiveness of 4Cs Skills Transfer from Sandbox Gaming Environment to Near and Far Contexts

Yuchun Zhong et al.

- D2 Collaborative Diagnostic Reasoning in Simulations: Insights from two Disciplines  
Melissa Özsoy et al.
- D3 Unlocking the Power of Immersive Learning: The FAIRI Instructional Design Framework for IVR  
Gilles Oubourdin et al.
- D4 The effect of different backgrounds on information recall when using 360° videos to assess learning  
Alberto A.P. Cattaneo et al.
- D5 Learning with instructional videos: Prompting is enough, really?  
Anke Wischgoll et al.
- D6 Domain Specific Challenges in Developing an e-Learning Tool for Organic Chemistry  
Katrín Schuessler et al.
- D7 Using badges and leaderboards to support secondary school students' English language learning  
Chunqi Li et al.
- D8 Supporting University Students' Use of Retrieval Practice during Their Self-Regulated Learning  
Louise David et al.
- D9 Training Self-Regulation Skills: Effects on Self-Efficacy, Challenge/Threat, and Learning Outcomes  
Jane Piepenbosch et al.
- D10 Investigating cognitive, affective, and motivational effects of game elements for learning  
Stefan Huber et al.
- D11 Testing the Effectiveness of an Individualized Assignment of Motivational Interventions  
Liene Brandhuber et al.
- D12 Is two better than one? Effects of sequencing a retrieval task and a learning protocol on learning  
Alina Timmermann et al.
- D13 How are students' pre-tutorial learning behaviors associated with Student Engagement in Tutorials?  
Linyuan Wang et al.
- D14 Phoneme-Grapheme Recognition Testing and Gamification in Primary school classrooms  
Lishi Liang et al.

Foyer

**15:35 - 16:05**

Location

Coffee break

**16:05 - 16:50**

Room 036

SIG 6 & 7 Members meeting

All members and interested participants welcome!

**16:55 - 17:55**

Invited JURE symposium

Rooms 036 live & 037 stream

*Chair:* Julian Roelle

How to Exploit the Potential of Desirable Difficulties in Education

Roman Abel

Tanja Habermeyer

Sterre Ruitenburg

Stephany Duany Rea

Discussant: Alexander Renkl

**18:30 - 19:30**

Neckar river

River boat tour (Stocherkahn) - *Registration only (individual landing stage is shown on your badge)*

There is the possibility to walk together from the conference venue to the landing stage. **Meeting point at 18:05 at the information desk.**

**19:00 (Official start 19:40) - 24:00**

Neckawa

Conference dinner

*Neckawa (Freistil)*

Friday, 23.08.2024

**9:00 - 10:00**

Invited symposium

Rooms 036 live &amp; 037 stream

Learning with Technologies in the Classroom

Guido Makransky

Josef Buchner

Leonie Sibley

Moderator: Andreas Lachner

**10:00 - 10:30**

Location

Coffee break

**10:30 - 11:50/ 12:00**
**Session I**
*Symposium VII - Teaching STEM with XR*

Room 036

Chair: Salome Flegr

Organizer: Zoya Kozlova

Exploring the Role of Conceptual Knowledge and Representational Competence in Augmented Reality

Zoya Kozlova et al.

Augmented Reality in Electromagnetism: Which Representations Best Support Students' Understanding?

Bermann Steinmacher

Learning with Annotations and Quizzes in VR: How Beneficial Is It, and What Mechanisms Play a Role?

Maximilian C. Fink et al.

Embodied Learning in Virtual Reality: A Comparative Study on Interaction Modalities

Patrick Albus et al.

Discussant: Guido Makransky

*Symposium VIII - How to Optimize the Benefits of Generative Learning Tasks*

Room 037

Chair: Julian Roelle

Organizer: Andreas Lachner

Combining Explaining and Drawing Fosters Inquiry Learning in Physics Classes

Heike Russ et al.

A preliminary conceptual framework of learning by teaching

Jesús Ribosa et al.

Enhancing Lasting Learning by Generative Drawing Through Integration of Retrieval Practice

Seokyoung Kim et al.

Combining Generative Learning and Retrieval Practice: Investigating the Role of Learning Task Delay

Niklas Obergassel et al.

Discussant: Vincent Hoogerheide

*Single papers - Multimedia Learning*

Room 106

Chair: Sascha Schneider

AI: Intention-preserving Automatic Alt-text Generation for Educational Content

Julia Chatain et al.

Effects of collaborative learning from dynamic multimedia - A systematic review

Laura Schultze et al.

Stepwise Presentation of Worked Examples to Foster Retrieval Practice and Improve Learning

Margot van Wermeskerken et al.

Supporting EAL learners with video subtitles and transcripts

Alice Shihua Yu et al.

The Presence of Learning Partners and Choice as Motivation Support Features in Multimedia Learning

Ömer Tuğşad Akgül et al.

**12:00 - 13:00**

Location

Lunch

**13:00 - 14:00**
**Session J**
*No or not perfect data - II*

Room 037

Chair: Sara Becker

A questionnaire to assess teachers' knowledge about multimedia principles in instructional videos

Sandra La Torre et al.

Comparing Performance-based versus Cognitive Load-based Assessment in Adaptive Learning Systems

Luisa Wellert et al.

Embodied Learning and Mixed Reality in Physics Experimentation

Ipek Paksoy et al.

Generation and Evaluation of Synthetic Text Data for the Students' Conceptions Identification Task

Judith Stanja et al.

*No or not perfect data - III*

Room 011

Chair: Stephanie Rösch

Developing cases for problem-based learning in multiprofessional digital learning environments

Michelle Möhring et al.



Enhancing Learning Through 360-Degree Images Using Signaling and Segmenting Principles

Kerstin Huber et al.

From reflection into action: Does collaborative reflection afford regulation of interaction quality?

Sebastian Strauß et al.

ICT related competences, attitudes, and experiences in primary school mathematics teachers

Caroline Marx et al.

**Single papers - Immersive Technologies II**

Room 036

Chair: Tine van Daal

Designing for Adaptivity: Systematic Design of Adaptive Learning Tasks for Immersive Virtual Reality

Gilles Obourdin et al.

How do learners move when grasping derivatives?

Julia Chatain et al.

Learning in Immersive Virtual Reality: Relationship between Cognitive Load and Learning Gains

Dorian Thomsen et al.

Presence is connected to cognitive activation: The instructional quality of virtual reality

Alexander Georg Büssing et al.

**Single papers - Educational Technologies in Sec II**

Room 106

Chair: Margus Pedaste

Inquiry learning in science education with real, virtual and VR experiments

Salome Flegr et al.

Supporting mastery learning by adapting exercise sequences to working memory and learner performance

Marti Quixal et al.

Teachers' digital technology integration practices and their predictors

Doris Kristina Raave et al.

**14:00 - 15:20/ 15:30**

Session K

**Symposium IX - Problem-Solving before Instruction: Investigating Mechanisms and new Application Areas**

Room 036

Chair: Inga Glogger-Frey

Organizer: Inga Glogger-Frey

Prior Knowledge Activation as Mechanism in PS-I: The Role of Goal Formulations

Charleen Brand et al.

Exploring Cognitive Mechanisms in PS-I: Problem Solving Versus Self-Explaining Problem Solutions

Katharina Ockl et al.

Applying PS-I in the Context of Addressing People's Knowledge Gaps about Email Threats

Nikol Rummel et al.

Applying PS-I in the Context of Promoting Multivariable Causality Reasoning via Simulations

Janan Saba

Discussant: Tamara Van Gog

**Symposium X - Interleaved practice and meaningful learning: Its variety and application across domains**

Room 037

Chair: Anique de Bruin

Organizers: Roman Abel, Erdem Onan

Tailoring interleaved practice: Adaptive interleaving in visual category learning

Lea Nemeth et al.

Improving diagnostic accuracy of lung auscultation through interleaved practice

Erdem Onan et al.

The Interleaving Effect for Language Learning Across Diverse Grammatical Tenses and Languages

Steven Pan et al.

Fostering Source Evaluation Skills by Mixed Presentation of (Un)Trustworthy Social Media Sources

Roman Abel

Discussant: Veronica Yan

**Single papers - Pre- and In-Service Teachers x Technologies**

Room 106

Chair: Marie-Christin Krebs

Conceptual change among pre-service teachers - Unveiling learning styles using podcasts and texts

Julia Götzfried et al.

More Than a Feeling? - Insights Into how Teachers Select Explainer Videos

Felicitas Licht et al.

Opportunities and Hurdles of Video Usage in Flipped Mathematical Modelling Seminars

Mustafa Cevikbas et al.

Willed and skilled to teach Mathematics with technology? Relating teacher profiles to technology use

Timo Kosiol et al.

**15:35 - 15:45**

Location

Short break

**15:45 - 17:00**

Rooms 036 live & 037 stream

Closing ceremony & Awards