Special Issue

Cognitive Load Theory and Mathematics Education

Message from the Guest Editor

New approaches informed by advances in Cognitive Load Theory (Sweller, 1988; Sweller, Ayers, & Kalyuga, 2011) provide insight into improved instructional methods and the consequent associated learning benefits to schema acquisition. This Special Edition welcomes both conceptual and empirical submissions exploring the application of cognitive load theory in mathematic classrooms from kindergarten to senior (high) secondary school. Topics include, but are not limited to:

- Application of general cognitive load principles on mathematic topics
- Use of gesturing during mathematics classroom practice
- Theoretical design and conceptual development of cognitive load teaching material
- Use of Cognitive load in early learning and primary mathematic settings
- Addressing cognitive load during complex content in secondary and senior secondary mathematics
- Use of cognitive load effects in the mathematics classroom beyond worked examples
- Adoption of innovative practices such as AI and VR based on cognitive load principles in the mathematics classroom

Guest Editor

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Deadline for manuscript submissions

closed (1 June 2023)



Education Sciences

an Open Access Journal by MDPI

Impact Factor 2.6 CiteScore 5.5



mdpi.com/si/145108

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About the Journal

Message from the Editor-in-Chief

From its first issue in 2011, *Education Sciences* (ISSN 2227-7102) has grown as a scholarly international open access journal. Its aim remains to publish extended full-length research papers that have the scope to substantively address current issues in education. As a member of the Committee on Publication Ethics (COPE), our goal has been to disseminate high quality research. Our publisher, MDPI, takes the responsibility to enforce a rigorous double-blind peer-review together with strict ethical policies and standards to ensure to add high quality scientific works to the field of scholarly publication.

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