Call for Papers of 2016 Special Issue

Metacognition for Science and Mathematics Literacy and Learning Technology-Infused Learning Environment

Guest Editors

Ying-Shao Hsu, National Taiwan Normal University;

Hsiao-Ching She, National Chiao Tung University;

Allyson Hadwin, University of Victoria;

Paola Iannone, University of East Anglia

Research about metacognition for learning and teaching has become a central and expanding issue in education. It is worthwhile to consider technology-infused environments as a potential solution to address the poverty of self-regulation and metacognition in science and mathematics learning. This Special Issue intends to publish empirical research (including qualitative, quantitative and mixed methods), secondary analysis, and review articles on mathematics and science literacy, metacognition, and self-regulated learning in technology-infused environments. Researchers working in the following areas are encouraged to submit articles:

- E-learning of mathematics or science and the metacognitive abilities and demands of such learning environments
- Cognitive and metacognitive supports to enhance science or mathematics achievement and metacognitive awareness and self-management
- Designing serious learning games to enhance science and engineering practices, conceptual learning, metacognition, and self-regulation
- Metacognition issues in technology-infused science reading, mathematics problem solving, and other engineering/technological design, mathematics and science tasks
- Methodologies for metacognition and SRL research in technology-infused science and mathematics learning and teaching environments
- Interdisciplinary collaborations between neuroscience, cognitive psychology, and technology-infused science and mathematics learning and teaching focus on metacognition and SRL research
- Review papers and secondary analysis (meta-analysis, metasynthesis, structural equation modeling, hierarchical linear modeling, document analysis, etc.) of metacognition and SRL, and measurement issues research in technology-infused science and mathematics learning and teaching
- Position paper on future development of metacognition and SRL research in technology-infused science, mathematics, and engineering/technology education

The due date for paper submissions is **February 15, 2015**. People intending to submit articles to the 2016 Special Issue should contact Ying-Shao Hsu (yshsu@ntnu.edu.tw) by **November 1, 2014**. All special issue manuscripts will be reviewed in a double-blind review process. IJSME manuscript guidelines @ http://www.editorialmanager.com/ijma/