Towards Innovation in Complex Problem Solving Research: Implications for Instructional Design & Technology

Guest Editors
Deniz Eseryel, Xun Ge, & Dirk Ifenthaler
University of Oklahoma

Complex problem-solving abilities are particularly essential in the knowledge age and at the top of the list of job requirements for the 21st century work. Inevitably, the field of instructional design and technology has become increasingly conscious of the demands posed by society, business, and industry to address higher-order complex problem-solving skill development.

This special issue is envisioned to bring together the scholarly research and theory focused on contemporary issues related to complex problem solving and its implications for learning and instruction. We are seeking manuscripts that address two areas of focus: (1) contemporary research on understanding complex problem solving, and (2) designing technology-based learning environments to scaffold complex problem solving development. Specific topics may include, but not limited to:

- Cognitive processes underlying complex problem solving
- Metacognition or self-regulation and complex problem solving
- Motivation, emotion and complex problem solving processes
- Individual and collective cognition in team-based complex problem solving processes
- Scaffolding complex problem solving skill development
- Designing technology-based learning environments to support complex problem solving
- Assessment of complex problem-solving skills

This call solicits research or development articles that address one or more of the areas of focus listed above. The manuscripts can be conceptual articles based on critical analysis and significant review of literature or empirical studies with novelty and originality aiming at advancing our knowledge and research in the area of complex problem solving.

Interested scholars should submit a 3-page proposal to Deniz Eseryel (eseryel@ou.edu) by May 21, 2012. Early submissions are encouraged. All submissions will undergo rigorous double-blind peer review by at least three reviewers of the special issue review board who will recommend full submissions from among the proposals. Questions regarding the special issue should be directed to Deniz Eseryel.

Schedule:
May 21, 2012 : 3-page proposal due
May 28, 2012 : Invitation will be sent to selected authors to submit their full manuscript
July 30, 2012 : Full manuscript submission deadline
September 10, 2012 : Reviewers’ feedback will be sent to authors
October 8, 2012 : Revised manuscripts due from authors
October 22, 2012 : Reviewers’ feedback will be sent to selected authors
November 5, 2012 : Final revised manuscripts due from authors