The focus of this ProSocrates Special Issue is to bring problem-solving, spatial cognition/reasoning, cognitive systems and creativity disciplines together, by bringing in dialogue specialists from each of the fields. Authors of experimental, theoretical and computational work which combines perspectives from at least 2 these topics are invited to submit contributions. The larger aim of integrating these topics is to produce theoretical tools, approaches and methodologies for creative and spatial problem solving in cognitive systems, in a manner that would benefit from such interdisciplinary bootstrapping.

Papers included in this issue will address such questions/debates as:

- How spatial reasoning can help in problem solving?
- How can problems be modeled in order to be solved creatively?
- How can spatial reasoning improve cognitive and/or creative skills in people? and in cognitive systems?
- What is the relation between Creativity and Spatial Reasoning?
- How sketches, shapes and colours can be interpreted cognitively and/or creatively?
- What is the relation between computational creativity, cognitive creativity and reasoning?
- How analogy and metaphor, image schemas and concept blending shed light on creative problem solving?

Possible topics to be explored by the contributions to this special issue include:

- Spatial cognition, creative cognition
- Spatial reasoning, case-based reasoning, analogical reasoning
- General and spatial problem solving, knowledge representation for problem-solving, cross-modal creativity and problem solving
- Analogy and metaphor, concept blending, image schemas
- Cognitive modeling and qualitative modeling
- Computational creativity, computational cognitive systems
- Symbolic, subsymbolic and hybrid approaches, evolutionary approaches and genetic algorithms
- Systems for enhancing human spatial reasoning and/or creativity
- Cognitive recommender systems, natural and artificial cognitive systems
- Visuospatial creativity, insight and re-representation
- Applications in Education, Robotics, Design, etc.

SUBMISSION GUIDELINES

Submissions to the special issue must include original research. Papers must be new and have not been published or submitted to other journals. Authors should prepare their manuscript according to the "Guide for Authors" available at the journal homepage: [http://www.journals.elsevier.com/cognitive-systems-research/](http://www.journals.elsevier.com/cognitive-systems-research/)

Submission should be made via the EVISE system:
Authors must select “VSI: ProSocrates” when they reach the "Article Type" step in the submission process. All papers will be peer-reviewed following the reviewing procedures of the Cognitive Systems Research (CSR) journal.

All papers will undergo a preliminary screening to ensure relevance to the special issue prior to the peer-review phase; research papers that do not sufficiently address the special issue call may not be selected for a full peer review (such a decision will be communicated rapidly).

IMPORTANT DATES

Deadline for paper submission: November 15th, 2017
Notification of acceptance: July 15th, 2018
Publication date: September 15th, 2018

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