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**SPECIAL ISSUE ON**  
**Cognitive Science and Artificial Intelligence for Human Cognition and Communication**

**Overview:**

Cognitive computing has broad horizons, which covers different characteristics of cognition. Moreover, cognitive science is interdisciplinary, scientific study of the human reasoning, emotions, language, perception, attention, and memory. However, artificial intelligence (AI) is to explore the design of computers and software that would capable of intelligent behavior. The integration of cognitive science and AI offers with a deep understanding of human cognition and communication. In addition, the creative and technical skills are applying the knowledge in AI solutions and applications in engineering psychology. This special issue is forming connections between cognitive science and AI that examines human performance and design of engineering psychology. The earlier studies have been revealed powerful principles, methodologies, and algorithms, prompting in human self-examination and perception for building AI systems that match or better human performance. Thus, this special issue focusing on convergence of cognitive science and AI principles and methods would be helpful to improve the thinking ability skills of the humans in engineering psychology.

**Topics**

Topics of interest include, but are not limited to, the following scope:

<ul style="list-style-type: none"><li>- Cognitive support and cognitive automation for human sense-making and decision making processes</li><li>- Spatial intelligence – AI, computer vision, spatial and imagery reasoning</li><li>- Interpersonal intelligence - AI agents that interact to each other, self-awareness and emotion in AI</li><li>- Cognitive computing approaches, reactive and proactive systems particular to engineering psychology</li></ul>	<ul style="list-style-type: none"><li>- Formal conceptual models of human brain data, architectures and machine intelligence</li><li>- Novel feature representation via deep learning, biometric modalities to enhance cognitive computing environments</li><li>- Machine learning techniques (e.g., Deep Learning) with cognitive knowledge acquisition frameworks</li></ul>
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**Important Dates**

- **Manuscript submission deadline: October 1, 2018**
- Notification of acceptance: December 1, 2018
- Submission of final revised paper: December 30, 2018
- Publication of special issue (tentative): 2019

**Submission Procedure**

Authors submit to MONET will have the opportunity to submit a shorter version of the paper to the conference ROSENET2018 and will get published and indexed. While authors that submit their

paper directly to the conference ROSENET2018 will be candidates for inclusion in the MONET issue. Authors should follow the MONET Journal manuscript format described at the journal site. Manuscripts should be submitted on-line through <http://www.editorialmanager.com/mone/>.

A copy of the manuscript should also be emailed to the Guest Editors at the following email address([dr.huimin.lu@ieee.org](mailto:dr.huimin.lu@ieee.org))

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