

## Call for Contributions

**Inform the Chair:** with the Title of your Contribution

**Submission URL:**

<https://www.iariasubmit.org/conferences/submit/newcontribution.php?event=COGNITIVE+2017+Special>

Please select Track Preference as **EMACOS**

Special track  
**EMACOS: Emotions in Artificial Cognitive Systems**

Chair and coordinator: Dr. Olga Chernavskaya, Lebedev Physical Institute - Moscow, Russia  
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along with  
COGNITIVE 2017, February 19 - 23, 2017 - Athens, Greece  
The Ninth International Conference on Advanced Cognitive Technologies and Applications  
<http://www.iaia.org/conferences2017/COGNITIVE17.html>

Simulation of human-like cognitive process in an Artificial Cognitive Systems (ACoS) implies inherently incorporation of rational reasoning and emotions.

The challenge here is connected with dual nature of human emotions. On the one (psychology, i.e. “Mind”) hand, emotions are treated as “*subjective self-appraisal of current and/or future state*”. On the other (neurophysiology, i.e., “Brain”) hand, emotions are known to be controlled by composition of neurotransmitters produced by certain sub-cortical structures (thalamus, amygdale, basal ganglia, etc.). This value is quite objective and experimentally measurable. But what is the “bridge” between the neurotransmitter composition and personal feeling of satisfaction, disappointment, etc., that is the question for understanding and modeling.

There are various approaches to incorporate the emotions into the model of cognitive process, e.g., the Active Agent schemes, Neuromorphic (neuron-based) models, Brain Re-engineering, etc., that could provide interesting contributions into the problem of realizing the emotions in ACoS. However, any other approach may be of interest.

**Expected topics to be covered, but not limited to, are:**

- Various approaches to simulation of emotions in ACoS;
- The role and place of Emotions in the cognitive process;
- The link between Intuition and Emotions in ACoS
- Simulation of the Sense of Humor;
- Interpretation of Aesthetic Emotions in ACoS;
- Simulation of the Emotion-evoked Deceases (stress, shock, depression, etc.);
- Ways to display the emotional manifestations in ACoS.

### **Important Datelines**

- Inform the Chair: As soon as authors decided to submit and secured the financial support
- Submission: January 15
- Notification: January 25
- Registration: February 5
- Camera ready: February 8

## **Contribution Types**

- Regular papers [in the proceedings, digital library]
- Short papers (work in progress) [in the proceedings, digital library]
- Posters: two pages [in the proceedings, digital library]
- Posters: slide only [slide-deck posted on [www.iaia.org](http://www.iaia.org)]
- Presentations: slide only [slide-deck posted on [www.iaia.org](http://www.iaia.org)]
- Demos: two pages [posted on [www.iaia.org](http://www.iaia.org)]

## **Paper Format**

- See: <http://www.iaia.org/format.html>
- Before submission, please check and comply with the editorial rules: <http://www.iaia.org/editorialrules.html>

## **Publications**

- Extended versions of selected papers will be published in IARIA Journals: <http://www.iaiajournals.org>
- Print proceedings will be available via Curran Associates, Inc.: <http://www.proceedings.com/9769.html>
- Articles will be archived in the free access ThinkMind Digital Library: <http://www.thinkmind.org>

## **Paper Submission**

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## **Registration**

- Each accepted paper needs at least one full registration, before the camera-ready manuscript can be included in the proceedings.
- Registration fees are available at <http://www.iaia.org/registration.html>

## **Contact**

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