Call for Contributions
1. Inform the Chair: with the Title of your Contribution
2. Submission URL:
https://www.iariasubmit.org/conferences/submit/newcontribution.php?event=COGNITIVE+2018+Special
Please select Track Preference as **AEMACOS**

Special track

AEMACOS: Aesthetic Emotions in Artificial Cognitive Systems

Chair and Coordinator: Dr. Olga Chernavskaya, Lebeved Physical Institute - Moscow, Russia
olgadmitcher@gmail.com

along with

COGNITIVE 2018, The Tenth International Conference on Advanced Cognitive Technologies and Applications
http://www.iaria.org/conferences2018/COGNITIVE18.html

Modeling the emotions in artificial cognitive systems represents one of the most interesting challenges. When it comes to 'pragmatic' emotions (associated with achieving a certain goal), the task is complex, but doable. Indeed, these emotions have clear rational reasons: approaching the goal causes positive emotions and vice-versa. But, is it possible to simulate the Aesthetic Emotions (AEs), i.e., some feelings arising from perception of the Art, Natural phenomena (sunset, rainbow, waterfall, etc.)? These emotions have no apparent reasons. While perception of Art does depend on the cultural context, education, profession, etc., on this background AEs still are quite individual. Moreover, AEs are individually sincere: the feeling of 'goose bumps' is real and familiar to everyone, but the motive that causes this effect is rather personal.

A special-related dilemma arises for Art appreciation in terms of what is a Chef-D'oeuvre (ChD? Why certain pieces of Art are perceived as ingenious work and cause 'goose bumps' for the majority of the given society members (within a given cultural context/level, obviously)? Even we might observe a strong influence of fashion and mass media, other undisclosed features should exist. There should be something in each Chef-D'oeuvre that makes it really ingenious artwork, something that positions Mozart (genius) versus Salieri (solid professional work). Complexity of the problem and its individual characteristics make modeling and analyzing the social aspects of the Chef-d'oeuvre an interesting and challenging problem.

It appears that modeling the Aesthetic Emotions and the perception of Chef-D'oeuvre ('goose bump' effect) is a very difficult problem, but usefully to be approached, too. Apart from purely scientific (academic) relevance, interested output could be applied (pragmatically) to improve people's quality of life, human emotion imitation by robots, and many other fields.

All approaches for modeling and simulating AEs and perception of Art could provide interesting contributions to this special track, including, but not limited to, Active Agent schemes, neuromorphic (neuron-based) models, Brain Re-Engineering, neurophysiology aspects of Art perception, etc.

Topics include, but not limited to:

- Machine learning for human-robot interaction optimization;
- Teaching-by-demonstration;
- Task planning and task allocation;
- Virtual and augmented reality;
- Medical and psychological effects of AE;
- Social aspects of perception of ChD;
- The role of paradoxes in ChD' creation and perception;
- Human robot cooperation;
- Human tracking in cluttered environments;

- Specially dedicated projects (RoboDancer, RoboActor, etc.).

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.iaria.org]
- Presentations: slide only [slide-deck posted on www.iaria.org]
- Demos: two pages [posted on www.iaria.org]

Important Datelines

- Inform the Chair: As soon as you decided to contribute
- Submission: Nov 3, 2017
- Notification: Dec 3, 2017
- Registration: Dec 17, 2017
- Camera ready: Jan 15, 2018

Note: *These deadlines are somewhat flexible, providing arrangements are made ahead of time with the chair.*

Paper Format
- See: http://www.iaria.org/format.html
- Before submission, please check and comply with the editorial rules: http://www.iaria.org/editorialrules.html

Publications
- Extended versions of selected papers will be published in IARIA Journals: http://www.iariajournals.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
https://www.iariasubmit.org/conferences/submit/newcontribution.php?event=COGNITIVE+2018+Special
Please select Track Preference as **AEMACOS**

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.iaria.org/registration.html

Contact
Chair: Olga Chernavskaya, olgadmitcher@gmail.com
Logistics: steve@iaria.org