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CALL FOR PAPERS

The IEEE 7th International Conference on Awareness Science and Technology (iCAST 2015)

Sep. 22-24, 2015, Qinhuangdao, China

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Contact information

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Conference Venue: Northeastern University at Qinhuangdao, China

Sponsors: IEEE SMCS Japan Chapter and Northeastern University at Qinhuangdao

Technical Co-Sponsors: IEEE Beijing Section, IEEE SMC Society, IEEE SMC Baoding Chapter, and IEEE EMBS Tianjin Chapter

Additional Support is provided by (Tentative): IEEE SMCS Technical Committee on Awareness Computing, IEEE CIS Task Force on Aware Computing, IEEE CIS Task Force on Brain Informatics, and Taiwanese Association for Consumer Electronics.

Scope: "Awareness" is the ability to be conscious of, feel, or perceive (Wikipedia). This implies vigilance in observation and alertness in drawing inferences from what one experiences (Merriam-Webster). The ultimate goal of awareness computing is to create computing systems that are themselves aware. This conference has been evolved from the International Workshop on Aware Computing (IWAC2009) in Aizu-Wakamatsu, Japan, the International Symposium on Aware Computing (ISAC2010) in Tainan, Taipei, the International Conference on Awareness Science and Technology (iCAST2011) in Dalian, China, iCAST2012 in Seoul, Korea, iCAST2013 in Aizu-Wakamatsu, Japan, and iCAST2014 in Paris, France. The conference provides a forum for researchers, engineers, and scientists for discussing awareness computing and exchanging ideas, opinions, and the latest results in this emerging new field. Topics of interest include, but are not limited to, the following:

A: Awareness Science:

- A1: Awareness mechanism and modeling
- A2: Machine learning and knowledge management
- A3: Pattern recognition and image understanding
- A4: Neuro-computing/perception/cognition
- A5: Fuzzy logic/granular computing/rough set
- A6: Agent computing/swarm intelligence
- A7: Awareness ontology and semantics

B: Awareness Technology:

- B1: Context/situation/background/semantics awareness
- B2: Intention/emotion/preference awareness
- B3: Location/position/goal awareness
- B4: Power/energy/capability/resource awareness
- B5: Weakness/risk/danger awareness
- B6: Safety/security/privacy/trust awareness
- B7: Chance/opportunity awareness

C: Awareness Related Applications:

- C1: Tele-communication/ubiquitous computing
- C2: Image/video/speech/signal processing
- C3: Overlay/P2P networking
- C4: Data/web/text mining
- C5: E-business/e-government/e-learning
- C6: Health/child/elderly care
- C7 Smart grid/transportation/public services
- C8: Device and automatic control
- C9: Cloud computing/internet of things
- C10: Cognitive radio

Important dates

- May 1, 2015: Deadline for special session proposal
- May 7, 2015: Notification of special session acceptance
- Extended to July 6, 2015: Deadline for paper submission
- July 30, 2015: Notification of paper acceptance
- August, 15, 2015: Submission of final camera-ready papers

Paper Submission and Publication

Paper needs to be submitted in IEEE two-column format. Manuscript should be unpublished work, must include enough detail about the goal, the problem to solve, proposed methods and main results. Length of the final camera-ready paper should be 6 pages (maximum of additional two pages with extra charge). All accepted papers will be included in the IEEE digital library. Selected papers will be considered to be published in a special issue of an academic journal belonging to Science Citation Index Expanded.

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