



The 8th International Conference on Awareness Science and Technology (iCAST 2017)

Nov. 8-10, 2017, Chaoyang University of Technology, Taichung, Taiwan

<http://icast2017.csie.cyut.edu.tw>



## CALL FOR PAPERS

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### Conference Administration

College of Informatics, Chaoyang U. of Technology, Taiwan

### Contact information

- Queries related to the paper status and program, please contact: *Email: icast2017pcs@gmail.com*
- For questions related to registration, local information and services, please contact:  
*Email: icast2017s@gmail.com*

### Conference Venue: Chaoyang University of Technology, Taiwan

**Sponsors:** Chaoyang University of Technology, University of Aizu, Iwate Prefectural University, Taiwan Ministry of Science and Technology, Taiwan Bureau of Foreign Trade, Xiamen University of Technology, Academia-Industry Consortium for Central Taiwan Science Park, and Feng Chia University.

**Technical Sponsors (tentative):** IEEE SMC Society, IEEE SMC Society Taipei Chapter, and IEEE SMC Society Taichung Chapter.

**Additional Support is Provided by:** IEEE SMCS Technical Committee on Awareness Computing, IEEE CIS Task Force on Aware Computing, IEEE CIS Task Force on Brain Informatics, Taiwanese Association for Consumer Electronics, Taiwan Education Society of Innovation and Invention, Taiwan Association for Web Intelligence Consortium, and Chinese Cryptology and Information Security Association.

**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, Taiwan, the International Conference on Awareness Science and Technology (iCAST2011) in Dalian, China, iCAST2012 in Seoul, Korea, iCAST2013 in Aizu-Wakamatsu, Japan, iCAST2014 in Paris, France, and iCAST 2015 in Qinhuangdao, China. 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/deep learning
- A3: Pattern recognition and image understanding
- A4: Neuro-computing/perception/cognition
- A5: Fuzzy logic/granular computing/rough set
- A6: Agent computing/swarm intelligence
- A7: Ontology/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
- B8: Knowledge/tacit knowledge engineering

#### C: Awareness Related Applications:

- C1: Social network
- C2: Tele-communication/ubiquitous computing
- C3: Image/video/speech/signal processing
- C4: Overlay/P2P networking/M2M
- C5: Big data/web/text mining
- C6: E-business/e-government/e-learning
- C7: Health/child/elderly care
- C8: Smart grid/transportation/public services
- C9: Device/automatic control/robotics
- C10: Cloud computing/internet of things
- C11: Cognitive radio

#### Important dates

- **May 01, 2017:** Deadline for special session proposal
- **May 15, 2017:** Notification of special session acceptance
- **July 15, 2017:** Deadline for paper submission
- **August 01, 2017:** Notification of paper acceptance
- **September 01, 2017:** Submission of final camera-ready papers

#### Paper Submission and Publication

Paper needs to be submitted in IEEE two-column format and should be written in English. Manuscript should be unpublished work, must include enough detail about the goal, the problem to solve, proposed methods and main results. The maximum length of the final camera-ready paper is 6 pages (maximum of additional two pages with extra charge). Each topic will select 1 or 2 presented papers to be the Best Conference Award papers. Please see Guidelines for the Best Conference Paper Award Contest for details.

All accepted papers will be published by **Conference Publishing Service** of IEEE and submitted to **IEEE Xplore digital library**. Also they are submitted for indexing through **EI (Compendex)** and **Scopus**. Selected papers will be recommended for post-conference publication in some **Science Citation Index Expanded** or **EI journals**, such as **International Journal of Computational Science and Engineering**, **International Journal of Embedded Systems**, **International Journal of High Performance Computing and Networking**.

**Submit your article at:** <http://eform.iis.sinica.edu.tw/url/icast2017/submit>