

VIEEE

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

Nov. 8-10, 2017, The Splendor Hotel, Taichung, Taiwan

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



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Catalog numbers

- ISBN: 978-1-5386-2965-9
- ISSN (Online): 2325-5994

Conference Venue: The Splendor Hotel, Taichung, Taiwan

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

Technical Sponsors: IEEE SMC Society, IEEE SMC Society Taipei Chapter, IEEE SMC Society Taichung Chapter, IEEE SMCS Technical Committee on Awareness Computing, and IEEE Sendai Section.

Additional Support is Provided by: Taiwanese Association for Consumer Electronics, Taiwan Education Society of Innovation and Invention, Taiwan Association for Web Intelligence Consortium, Chinese Cryptology and Information Security Association, and Taiwanese Association for Artificial Intelligence.

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 (IWAC 2009), in Aizu-Wakamatsu, Japan, the International Symposium on Aware Computing (ISAC 2010) in Tainan, Taiwan, the International Conference on Awareness Science and Technology (iCAST 2011) in Dalian, China, iCAST 2012 in Seoul, Korea, iCAST 2013 in Aizu-Wakamatsu, Japan, iCAST 2014 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

August 10, 2017: Deadline for paper submission (no extended in the future)

September 05, 2017: Notification of paper acceptance

· September 15, 2017: Submission of final camera-ready papers

· October 01, 2017: Deadline for registration

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 length of the final camera-ready paper is 4-6 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 regular papers will be published by Conference Publishing Service of IEEE and submitted to IEEE Xplore digital library. Also they are submitted for indexing in EI (Compendex) and Scopus. Selected papers will be recommended for post-conference publication in some Science Citation Index Expanded, EI, or Scopus journals, such as International Journal of Computational Science and Engineering, International Journal of Embedded Systems, International Journal of High Performance Computing and Networking, International Journal of Network Security, and International Journal of Applied Science and Engineering.

Paper Submission Website: http://eform.iis.sinica.edu.tw/url/icast2017/submit