

## 朝陽科技大學 函

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主旨：檢送本校資訊學院舉辦由IEEE Technical Sponsor之「第八屆感知科學與科技國際研討會(iCAST 2017)」徵稿DM 1份，敬邀貴校資訊相關系所師生踴躍投稿，請查照。

說明：

- 一、「第八屆感知科學與科技國際研討會(iCAST 2017)」謹訂於106年11月8日至10日假台中金典酒店舉行。
- 二、研 討 會 網 址：  
<http://icast2017.csie.cyut.edu.tw/>。
- 三、論文徵稿截止日期：106年7月15日(星期六)。
- 四、論文接受通知日期：106年8月15日(星期二)。
- 五、有關研討會相關事宜，歡迎洽詢iCAST2017研討會籌備聯絡人：黃智慧小姐(聯絡電話：04-23323000轉7634；Email：icast2017pcs@gmail.com)；資訊工程系洪若偉主任(聯絡電話：04-23323000轉7631；Email：rwhung@cyut.edu.tw)。

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副本：本校資訊學院(含附件)、資訊學院資訊工程系(含附件)





## 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>



# 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](mailto:icast2017pcs@gmail.com)*
- For questions related to registration, local information and services, please contact:  
*Email: [icast2017s@gmail.com](mailto:icast2017s@gmail.com)*

### 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

- **June 01, 2017:** Deadline for special session proposal
- **June 15, 2017:** Notification of special session acceptance
- **July 15, 2017:** Deadline for paper submission
- **August 15, 2017:** Notification of paper acceptance
- **September 15, 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 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](#), and [International Journal of Network Security](#).

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