

Annual Activity Report of IEICE Shanghai Section
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1. ICT R&D environment around Shanghai Section

- Attracting famous enterprises, as well as traditional industry companies constructing research centers.
- China's government proposed innovative projects, especially for AI industry.
- Long-term close cooperation among universities and companies reserve talents, a good ecosystem for the IEICE organization. For instance, SJTU and the DSP Concept have signed a cooperation agreement to develop artificial audio technologies.

2. Introduction of academic activities in Shanghai Section

2.1 Conference/Symposium/Workshop

- The 15th IEEE International Conference on Machine Learning and Applications (ICMLA'16) Dec. 18-20, 2016, Anaheim, USA (oral presentation)
- The 31st Eastern China Teaching Seminar on Electronic circuit, Oct.15-16, 2016, Qingdao, China. (keynote speech)
- The "Systematic Method" Teaching Seminar, Jun. 3-6, Guangzhou, China. (keynote speech)

2.2 Membership improvement and publications

- Absorbing new members, including student members.
- Graduate students are selecting the IEICE to publicize their works, for examples,
 - You, H., et al. "A speech enhancement method based on multi-task Bayesian compressive sensing." IEICE Transactions on Information and Systems 100.3 (2017): 556-563.
 - You, H., et al. "Lexicon-based local representation for text-dependent speaker verification." IEICE Transactions on Information and Systems 100.3 (2017): 587-589.
 - You, H. et al. "A weighted overlapped block-based compressive sensing in SAR imaging." IEICE Transactions on Information and Systems 100.3 (2017): 590-593.
 - Ma, Z. et al. "An optic-fiber fence intrusion recognition system using mixture Gaussian hidden Markov models." IEICE Electronics Express 14.5 (2017): 20170023.
 - Ma, Z. et al. "An approach to detect cavities in X-ray astronomical images using granular convolutional neural networks." IEICE Transactions on Information and Systems 100.10 (2017): xxx-xxx (Accepted).

3. Organization and role assignment of Shanghai Representative Office

- Prof. Jie Zhu is the chairman of IEICE Shanghai section, and Ms. Yan Zhou as the assistant.
- Focusing on organizing academic activities, and absorbing new student members.

4. Strategy to extend the membership in Shanghai Section

- Organizing more academic conferences to expand influence of the organization.
- Increasing impact factors of the IEICE publications, and attracting more excellent works.
- Organizing and encouraging senior members to give talks worldwide.

**5. Plan of themes for the lecture (sponsored by IEICE) and international conference/symposium/
workshop organized by Shanghai Section**

- Inviting IEICE staffs to introduce the organization and its membership policy.
- Associating with Beijing and Taiwan sections organizing an international conference.