

**Title:**

Speech processing for security and Privacy

Abstract:

The main aim of this workshop is to seek papers taking an academic perspective on speech processing and its security and privacy services. The popularization and universalization of Speech technologies can be applied to facilitate the security and privacy applications and extend new scenarios. We hope that this workshop articles will raise and respond to new security and privacy preserving issues or represent ongoing research to enhance the effectiveness and efficiency of existing security and privacy preserving issues by speech processing technologies. We also welcome academic manuscripts covering security and privacy policies related to multimedia services.

This workshop will provide a platform for discussing emerging trends in building new algorithms, new frameworks for speaker identification verification and recognition, speech anti-spoofing, speech conversion, low resource speech processing and speech watermarking etc. At the same time, using cutting edge machine learning for building such frameworks or optimization tools will be discussed. This workshop aims to bridge the gap between speech research and security and privacy field, through a technical program of fresh ideas on tools, design principles, theory/algorithms. We will also explore potential scenarios and applications by connecting these two fields together.

Scope and Topics:

Potential topics include but are not limited to:

- ✧ Speaker and language recognition, verification, and identification
- ✧ Speaker verification and anti-spoofing
- ✧ Language, dialect, and accent recognition
- ✧ Low-resource speech recognition/synthesis
- ✧ Multimodal speech processing
- ✧ Speaker recognition in multimedia content
- ✧ Low-resource speaker and language recognition
- ✧ Speaker synthesis and transformation
- ✧ privacy preserving in speech processing
- ✧ Speech watermarking
- ✧ Corpora and tools for system development and evaluation



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Bio: Jianguo Wei is a professor at College of Intelligence and Computing in Tianjin University. He currently is the vice dean of College of Intelligence and Computing of Tianjin University. He is also the dean of the School of Computer science of Qinghai Minzu University. He has devoted himself to the research of Speech signal processing, Speech related security issues.

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Bio: Naixue Xiong (Senior Member, IEEE) received the Ph.D. degree in software engineering from Wuhan University, Wuhan, China, in 2007, and the Ph.D. degree in dependable communication networks from the Japan Advanced Institute of Science and Technology, Nomi, Japan, in 2008. He is currently a Professor with the Department of Mathematics and Computer Science, Northeastern State University, Tahlequah, OK, USA. Before attending Northeastern State University, he was with Colorado Technical University, Wentworth Technology Institution, and Georgia State University for many years. His current research interests include cloud computing, security and dependability, parallel and distributed computing, networks, and optimization theory.

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