


Full Name (English):	Ying Wei	Recent Photo 
Affiliated Institution and Title (English):	Shandong University	
Biography (Please provide in paragraph form within 500 words.)		
<p>Ying Wei received her Bachelor's and Master's degrees from Xi'an Jiaotong University in 2000 and 2003 respectively, and received her Ph.D. from the National University of Singapore in 2008. She currently serves as a full professor at Shandong University. She is also the director of Shandong International Cooperation Base for Intelligent Perception and Information Processing. She has published over 50 SCI/EI-indexed papers in prestigious international journals such as TSP, TBME, TCAS1, TBCAS, J-STSP, etc. She serves as associate editor for IEEE TBCAS. Her current research focuses on audio-visual acoustic signal processing.</p>		
Speech Title (English):		
Advances and Challenges in Audio-Visual Speech Separation		
Speech Abstract (Please provide in paragraph form within 500 words.)		
<p>Multi-modal speech separation technology aims to integrate multiple sensory modalities (such as audio, vision, text, etc.) to separate and extract target information, addressing interference issues in complex environments. This technology has evolved from classic challenges like the cocktail party problem to emerging metaverse scenarios, driving the development of human-computer interaction and intelligent environments. The report focuses on the representative models and applications of multimodal speech separation technology. It examines the challenges faced, introduces the technological development pathways, and discusses its future development trends.</p>		