

Sign Language Recognition and Production

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Abstract

Deaf and Hearing-impaired community faces with many challenges in the society. As a fundamental requirement in real-life communication, Deaf and Hearing-impaired people need to have a bidirectional communication with other people in society. Two main components of a bidirectional system are Sign Language Recognition (SLR) and Sign Language Production (SLP). While the former translates sign language into the spoken language, the latter aims to work in the reverse path and generate a video sign from an input text/video/voice in the spoken language. In this talk, I will briefly introduce the main concepts in SLR and SLP, provide a report on the state-of-the-art results, and also present in detail the several efficient deep learning methods in the field.

Biography

Razieh Rastgoo received her Ph.D. in Computer Engineering, Artificial Intelligence. She is currently a researcher at HIS Company in Iran, IPM in Iran, HuPBA Lab at University of Barcelona, Spain, and VLM Research Lab at University of Texas at Arlington, USA. Her interest areas are Computer Vision, Deep Learning, and Sign Language Recognition/Production.

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