

1. Record Nr.	UNINA9910906298703321
Titolo	Sign Language Machine Translation // edited by Andy Way, Lorraine Leeson, Dimitar Shterionov
Pubbl/distr/stampa	Cham : , : Springer Nature Switzerland : , : Imprint : Springer, , 2024
ISBN	9783031473623 3031473620
Edizione	[1st ed. 2024.]
Descrizione fisica	1 online resource (363 pages)
Collana	Machine Translation: Technologies and Applications, , 2522-803X ; ; 5
Disciplina	419
Soggetti	Translating and interpreting Machine learning Applied linguistics People with disabilities - Education Signal processing Inclusive education Language Translation Machine Learning Applied Linguistics Education and Disability Signal, Speech and Image Processing Inclusive Education
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Nota di bibliografia	Includes bibliographical references and index.
Nota di contenuto	Chapter 1. The Pipeline of Sign Language Machine -- Chapter 2. How it Started and How it's Going: Sign-Language Machine Translation and Engagement with Deaf Communities over the past 25 years -- Chapter 3. The Importance of Including Signed Languages in Natural Language Processing -- Chapter 4. Sign Languages and Machine Translation: Challenges and Opportunities -- Chapter 5. Challenges with Sign Language Datasets -- Chapter 6. Language Resources for European Sign Languages.* Chapter 7. Sign languages as source language for machine translation: historical overview and challenges -- Chapter 8. Linguistic Processing for Sign Language Translation -- Chapter 9.

Improving Sign Language Gloss Translation with Low-Resource Machine Translation Techniques -- Chapter 10. Sign Language Synthesis: Current Signing Avatar Systems and Representation -- Chapter 11. A Real-Time Collision Detection and Avoidance Algorithm for Fingerspelling Animation -- Chapter 12. Bridging the Gap: Understanding the Intersection of Deaf and Technical Perspectives on Signing Avatars -- Chapter 13. Sign Language Machine Translation Communication and Engagement. Chapter 14. (Towards) Sign Language Machine Translation in Practice.

Sommario/riassunto

This book, for the first time, collects important current topics in the area of sign language translation in a single volume. The topic is introduced more generally to benefit newcomers to the field before diving into the current state-of-the-art methods of Sign Language Machine Translation (SLMT), together with an in-depth description of issues specific to this topic, including: an introduction to and historical overview of SLMT; ethical issues related to the engagement of and with deaf users; the importance of data; the sign languages of Europe; sign language recognition and synthesis, including via avatars; data-driven and linguistically-informed models of SLMT; gloss translation; fingerspelling; SLMT communication; and SLMT in practice. Of interest to MT developers and users as well as people working in deaf studies, this volume presents cutting-edge research on machine translation in the field of deaf studies.
