

1. Record Nr.	UNISA996547972403316
Autore	Rehm Georg
Titolo	European Language Grid : A Language Technology Platform for Multilingual Europe // edited by Georg Rehm
Pubbl/distr/stampa	Cham, : Springer Nature, 2023 Cham, : Springer International Publishing, : Imprint : Springer, , 2023
ISBN	3-031-17258-2
Edizione	[1st ed. 2023.]
Descrizione fisica	1 online resource (XXX, 360 p. 84 illus., 81 illus. in color.)
Collana	Cognitive Technologies, , 2197-6635
Disciplina	006.35
Soggetti	Natural language processing (Computer science) Computational linguistics Artificial intelligence Expert systems (Computer science) Application software Business—Data processing Natural Language Processing (NLP) Computational Linguistics Artificial Intelligence Knowledge Based Systems Computer and Information Systems Applications Business Informatics
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Nota di contenuto	Preface -- 1. European Language Grid: Introduction -- 2. The European Language Grid Platform: Basic Concepts -- 3. Using the European Language Grid as a Consumer -- 4. Contributing to the European Language Grid as a Provider -- 5. Technical Cloud Infrastructure -- 6. Interoperable Metadata Bridges to the wider Language Technology Ecosystem -- 7. Language Technology Tools and Services -- 8. Datasets, Corpora and other Language Resources -- 9. Language Technology Companies, Research Organisations and Projects -- 10. European Language Technology Landscape: Communication and

Collaborations -- 11. ELG National Competence Centres and Events -- 12. Innovation and Marketplace: A Vision for the European Language Grid -- 13. Sustaining the European Language Grid: Towards the ELG Legal Entity -- 14. Open Calls and Pilot Projects -- 15. Basque-speaking Smart Speaker based on Mycroft AI -- 16. CEFR Labelling and Assessment Services -- 17. European Clinical Case Corpus -- 18. Extracting Terminological Concept Systems from Natural Language Text -- 19. Italian EVALITA Benchmark Linguistic Resources, NLP Services and Tools -- 20. Lingsoft Solutions as Distributable Containers -- 21. Motion Captures 3D Sign Language Resources -- 22. Multilingual Image Corpus -- 23. Multilingual Knowledge Systems as Linguistic Linked Open Data -- 24. Open Translation Models, Tools and Services -- 25. Sign Language Explanations for Terms in a Text -- 26. Streaming Language Processing in Manufacturing -- 27. Textual Paraphrase Dataset for Deep Language Modelling -- 28. Universal Semantic Annotator -- 29. Virtual Personal Assistant Prototype YouTwinDi.

Sommario/riassunto

This open access book provides an in-depth description of the EU project European Language Grid (ELG). Its motivation lies in the fact that Europe is a multilingual society with 24 official European Union Member State languages and dozens of additional languages including regional and minority languages. The only meaningful way to enable multilingualism and to benefit from this rich linguistic heritage is through Language Technologies (LT) including Natural Language Processing (NLP), Natural Language Understanding (NLU), Speech Technologies and language-centric Artificial Intelligence (AI) applications. The European Language Grid provides a single umbrella platform for the European LT community, including research and industry, effectively functioning as a virtual home, marketplace, showroom, and deployment centre for all services, tools, resources, products and organisations active in the field. Today the ELG cloud platform already offers access to more than 13,000 language processing tools and language resources. It enables all stakeholders to deposit, upload and deploy their technologies and datasets. The platform also supports the long-term objective of establishing digital language equality in Europe by 2030 – to create a situation in which all European languages enjoy equal technological support. This is the very first book dedicated to Language Technology and NLP platforms. Cloud technology has only recently matured enough to make the development of a platform like ELG feasible on a larger scale. The book comprehensively describes the results of the ELG project. Following an introduction, the content is divided into four main parts: (I) ELG Cloud Platform; (II) ELG Inventory of Technologies and Resources; (III) ELG Community and Initiative; and (IV) ELG Open Calls and Pilot Projects.