

CLARIN-IT

the Italian Common Language Resources and Technology Infrastructure







1° October 2015







CLARIN-IT: CNR Leading institution





 CLARIN-IT Representative body (in the General Assembly):



<u>Dipartimento Scienze Umane e Sociali, Patrimonio Culturale – Consiglio Nazionale</u> delle Ricerche (DSU-CNR)

Prof Gilberto Corbellini, Director of Dept.

CLARIN-IT National Coordinator:

Monica Monachini, Institute for Computational Linguistics "A. Zampolli" - Italy (ILC-CNR)



<u>Institute for Computational Linguistics "A. Zampolli" - National Research Council of Italy (ILC-CNR)</u>

CLARIN-IT Italian technological node: <u>LC4CLARIN</u>







CLARIN-IT: consortium first nucleus

Members, Institutions:

- Institute for Applied Linguistics, Eurac Research, IAL, Bozen..
 Dott. A. Abel
- Siena University
 - 1. Dipartimento di Scienze della Formazione, Scienze Umane e della Comunicazione Interculturale,. Prof. S. Calamai
 - 2. Centro di Studi Comparati, Dipartimento di Filologia e Critica delle Letterature Antiche e Moderne.. Prof. F. Stella
- Fondazione Bruno Kessler, Trento;. Dott. S. Tonelli

Members, Person:

 Dipartimento di Discipline Umanistiche, Sociali e delle Imprese Culturali, University of Parma, Prof. Anika Nicolosi

Expression of interest for membership:

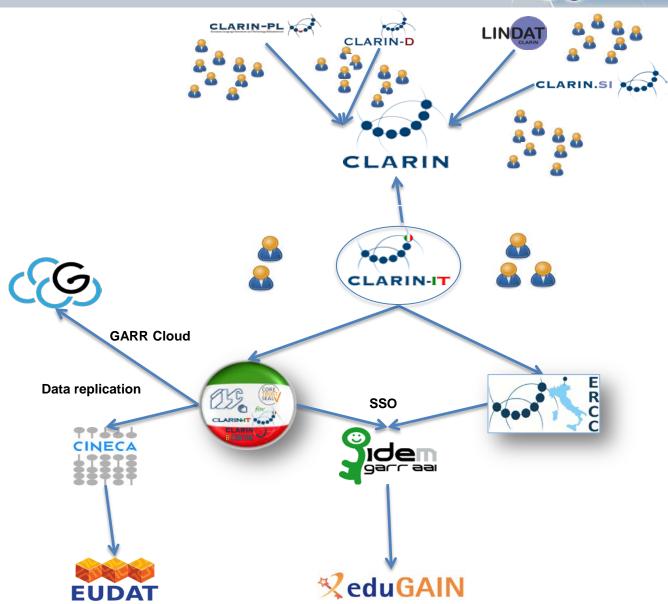
- Pisa University; Prof A. Lenci
- Dipartimento di Studi Linguistici e Culturali Comparati, Università "Ca' Foscari" Venezia, Prof. Marina Buzzoni
- Scuola Normale Superiore



CLARIN-IT Technology Infrastructure



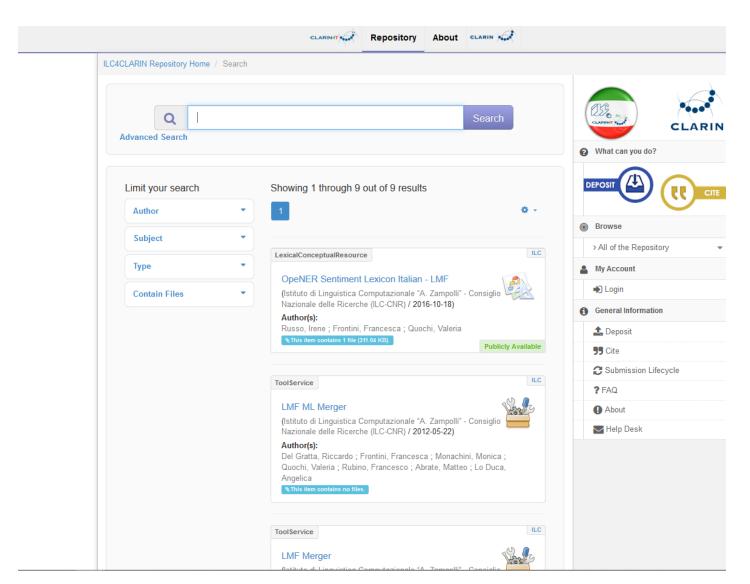






ILC4CLARIN repository







ILC4CLARIN goes **LLOD**





From CLARIN Component Metadata to Linked Open Data

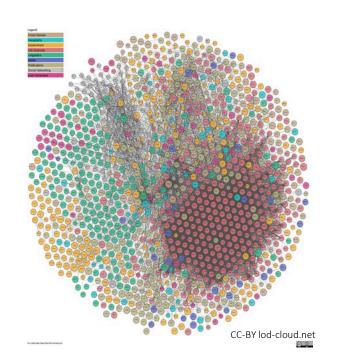
Matej Durco

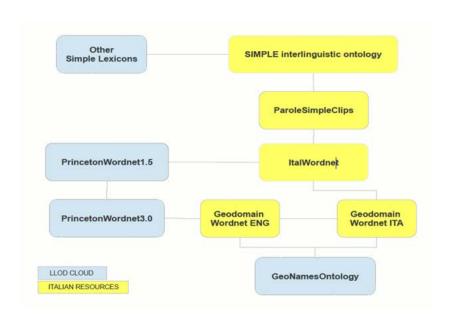
Institute for Corpus Linguistics and Text Technology matej.durco@oeaw.ac.at

Menzo Windhouwer

The Language Archive - DANS menzo.windhouwer@dans.knaw.nl

LDL@LREC2014 Reykjavik, Iceland





```
LLOD and scholarly dictionaries: The Middle Liddell-Scott
  :mlEntry_n57 a ontolex:LexicalEntry;
    ontolex:canonicalForm:mlEntry_n57_lemma;
    ontolex:sense:mlsense_n57_0,
      :mlsense_n57_1.
  :mlsense_n57_0 a ontolex:LexicalSense ;
    lsj-lemon:senseGloss ""immortal, divine, holy, νὖξ άβρότη, either holy Night, as a divinity,
  (like iερὸν κνέφας, iερὸν ῆμαρ), or never failing (like ἄφθιτος ἡώς), Il.; ἔπη ἄβροτα holy hymns, Soph.***@en ;
   lsj-lemon:usage <a href="http://dbpedia.org/resource/Iliad">http://dbpedia.org/resource/Iliad</a>,
      <a href="http://dbpedia.org/resource/Sophocles">http://dbpedia.org/resource/Sophocles</a>;
    polyLemon:senseSibling:mlsense_n57_0,
      :mlsense_n57_1;
    lexinfo:translation "divine"@en,
      "holy"@en,
      'immortal'@en,
      "never failing"@en;
    ontolex:isSenseOf :mlEntry_n57.
```

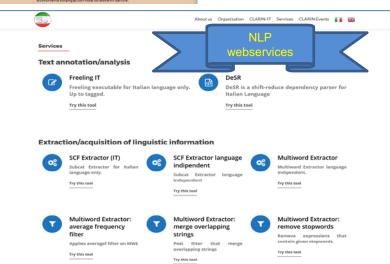


ILC4CLARIN services









		ItalWordNet			ĺ
	Parola:	Invia Mostra tut	te le relazioni 🗆		
					_
, Nome					
• [1] - edificio o parte	di esso in cui si abita; [1], dimora [2], magione [1], o	oetello [2], tetto [4])			
(distribute 1 , casa	[1], aimora [2], magione [1], c	Kielo (2), reno (4))		ess to Lexical	
				resources	
 [2] - edificio con part (casa [2]) 	icolari funzioni.	4			3
v					
• [2] dimentia como m	ananta. Binsiama dai sarmai la	tononti o uno eterro finnial	ia aha si susaadana sul t	lean a	
(casa [3], casa_regna	ante [1], dinastia [1])	appartenenti a una stessa famigl	ia, che si succedono sui t	rono	
"la casa di Savoia no	m ha regnato a lungo sull'Italia	a"			

elect the input lang nglish reek	Type the word or the sy	nsetid	Select the target languages Greek Latin
alian O atin O rabic O roatian O	ship	Word ● Synsetid ○	Italian
liew Results	Reset Form New Search		
4	Ancient Greek WordNet Yo		

ERCC – Institute for Applied Linguistics (IAL) Eurac Research Bozen

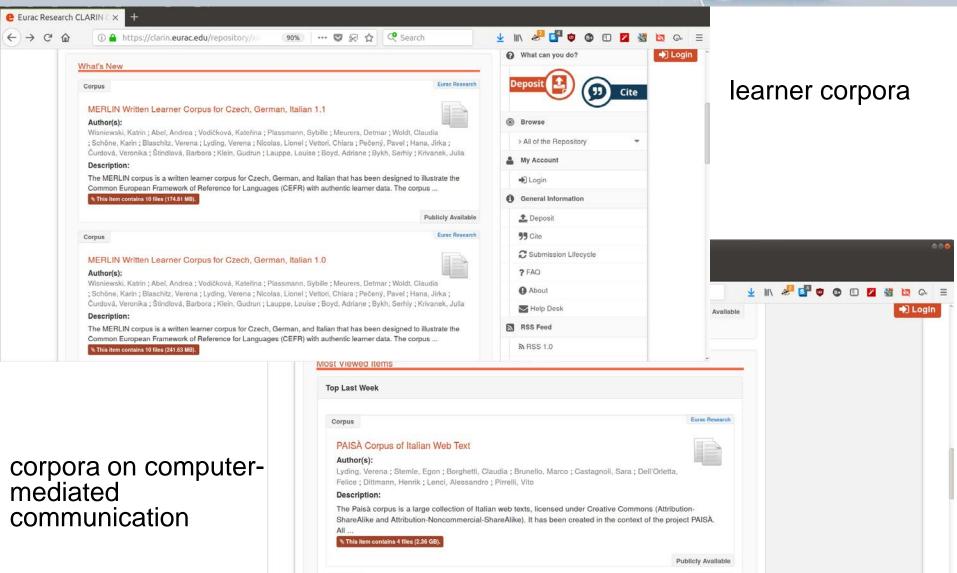


- The EURAC Research CLARIN Centre (ERCC) the IAL of EURAC Research
- hosts corpora mainly on Italian or the regional variant of German.
- has strong focus on the region and especially on the local multilinguality
- has a research focus on non-standard language

ERCC - The CLARIN-IT data center



Eurac Research



Corpus

UniSI – Dept. Education and Human Sciences DSFUCI

Documenti di progetto



- Grammo-foni (Gra.fo) project: DSFUCI (Silvia Calamai) & Scuola Normale Superiore Pisa (P.M. Bertinetto)
- a unique speech and oral archive of the past in the Italian panorama:
 - over 3,000 hours of digitized recordings and
 - vast range of documents and topics covered
- Gra.fo provides a first-hand documentation of Tuscan language varieties from the early 1960s
- a model for other research groups to deal with oral archives.



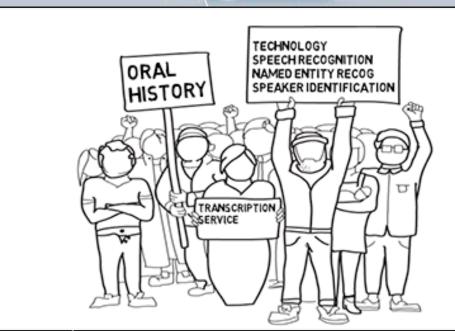
Scuola Normale Superiore

Plazza del Cavalleri 7

UniSI – Dept. Education and Human Sciences DSFUCI



- ✓ CLARIN-IT supports the use and take up of resources and technologies among social scientists, oral historians and digital humanists
- ✓ Silvia Calamai has participated in and organized a CLARIN Workshops series
- ✓ Oxford 2016
- ✓ Utrecht 2016
- ✓ Arezzo 2017 http://oralhistory.eu/workshops/arezzo
- ✓ Munich 2018 http://oralhistory.eu/workshops/munich
- ✓ lower barriers and diversity of practices in the two communities
- ✓ create automatically generated transcripts.
- ✓ develop a 'Transcription Chain' prototype bringing together CLARIN technologies for speech retrieval and alignment from different countries

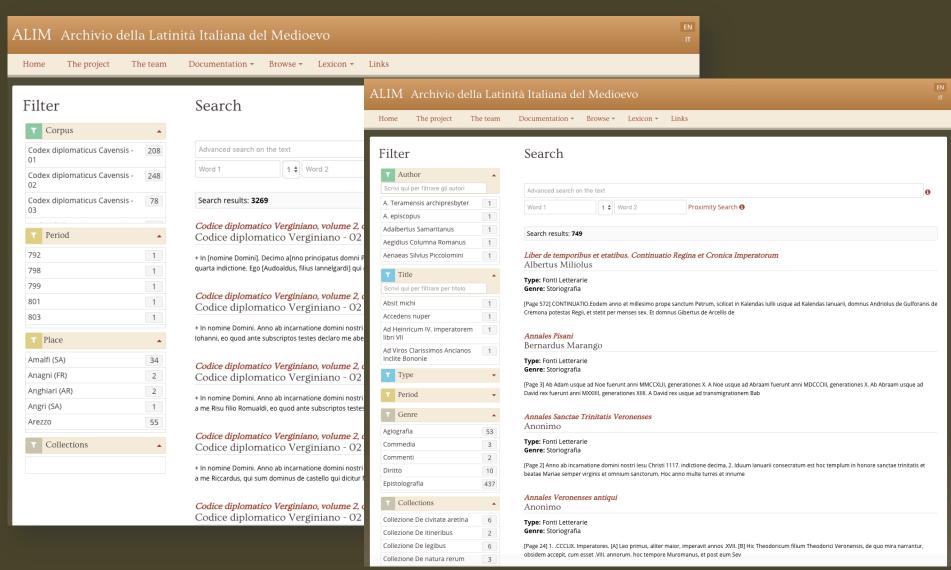


UniSI – Dept. Phylology and Literary Criticism Centro Studi Comparati DFCLAM



- Free on-line access to digital archives of literary and historical texts
- The Archive of the Italian Latinity of the Middle Ages (ALIM), the largest digital library in Italy
- Latin never lost its role and prestige as transnational language until the end of the Middle Ages and beyond
- Resp. Prof. Francesco Stella
- http://en.alim.unisi.it





- Latin texts and documents, encoded in XML-TEI
- textual analysis tools and a medieval-Latin lemmatizer

FBK - Fondazione Bruno Kessler Digital Humanities Unit



The "Digital Humanities" Unit (resp. S. Tonelli) mainly focuses on the development and implementation of techniques for semantic analysis of texts.

They make available:

- annotated corpora of historical texts and political texts (Italian and English)
- NLP software for italian
- Text digitalization and trascription tools
- web tools for advanced navigation of texts

The field of application is:

- study of language complexity
- automated text simplification.

The target community:

political scientists, history scholars, education and cultural heritage institutions



FBK - Fondazione Bruno Kessler Digital Humanities Unit



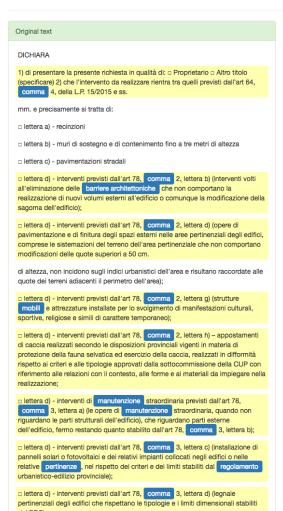


ltalian text tool

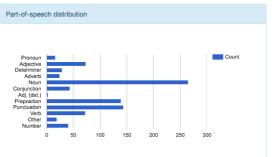








	24
Tokens:	914
Words:	72
Content words:	434
Difficulty levels	
Cupease 42.14 These numbers are normalized values showing how difficult of a text depending on the user (from 0 to 1, 0 meaning diffi	
The gulpease is a readability index for the Italian lang into consideration the content of the text, but technic the length of sentences and words: Italian 80 means difficult for a person at eler less than 80 means difficult for a person at met less than 40 means difficult for a person at high The Level1 gauge shows how difficult the text is for a 500 easiest words in Italian (elementary school). The Level2 gauge shows how difficult the text is for a 2500 easiest words in Italian (middle school).	guage. It does not take al information such as mentary school; dium school; s school. a user knowing only the



A platform for readibilty and simplification



FBK - Fondazione Bruno Kessler Digital Humanities Unit



KD: Keyphrase Digger

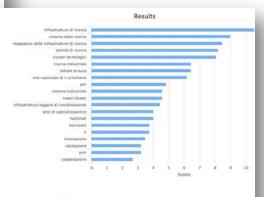
Automatic Keyphrase Extraction from Texts

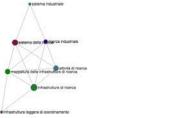
Paste Text and try yourself. (supported languages: Italian, English and German) Le infrastrutture di ricerca (IR) sono tra i pilastri della ricerca italiana, in particolare **Options:** della ricerca di base, e svolgono un ruolo fondamentale nell'avanzamento della co noscenza, nello sviluppo dell'innovazione e delle sue applicazioni, così come nello Pre-sets: Other sviluppo economico e sociale dei territori nei quali sono insediate. Spesso, infatti, le IR offrono servizi qualificati, attraggono talenti e creano attività di networking inter Number of keyphrases: 20 nazionale, contribuendo alla realizzazione di un ambiente stimolante e competitivo da Min. frequency of occurrence: 2 cui traggono beneficio, a breve e a lungo termine, le aree che le ospitano. Boost Abstract Concepts: Per questo motivo oggi i Paesi e i singoli territori si contendono la localizzazione di importanti IR nelle rispettive giurisdizioni, in una competizione sempre più giocata Skip proper noun: non solo mettendo a disposizione importanti risorse finanziarie, ma anche offrendo Keyphrase Complexity: contesti più attrattivi a livello internazionale in termini di capitale umano e connes sione con gli stakeholder. Cloud of Key-Concepts

Terninology extration and visualization

rete nazionale di ir prioritarie
cooperazione ricerca industriale
nazionali Pnrattività di ricerca
mappatura delle infrastrutture di ricerca
priir infrastrutture di ricerca innovazione
nazionale ir sistema della ricerca
nuovi cluster cluster tecnologici
aree di specializzazione milioni di euro
sistema industriale
infrastruttura leggera di coordinamento









CLARIN-IT User Involvement



- A. Nicolosi (pers. member) Dept. of Human and Social Sciences UniParma
- Interest for the use of digital resources and tools in the Humanities
- Survey to ascertain the current interest in digital methods by classical philologists
- The survey focused on the digital resources and tools needed to support an excellent digital edition of an ancient text
- MasterDegree thesis
- CLARIN-IT contribution to the wider impact of CLARIN on Italian users
- adoption of Digital
 Humanities methods
 in the field of
 Classics and ancient
 world studies





KPI - CLARIN-IT Events



- Disseminate results, involve users
- Introduce CLARIN to next generations, (Keynotes, Lectures)
- Participation in events (AIUCD, LREC, GARR, Workshops)
- Organization of events

Thematic Workshops	10
Workshops for National Coordinators	5
Annual Conferences (Scientific Committee)	4
General Assembly	3
Annual meetings Technical Coordination Committees	3
Technical Committees (CLARIN-IT members in committeees: standard, metadata, legal)	9
Organization of International Workshops	3
Organization of CLARIN-IT events (user involvement, raising awareness in Academia & research inst.)	19
Organization of the Annual Conference 2018 in Italy (CLARIN-IT Local Organizer)	1







KPI – CLARIN-IT Publications



Pubblicazioni CLARIN-IT	Rivista	2
	Atti	16
Pubblicazioni correlate a CLARIN-IT	Rivista	3
	Atti	12
	Volume	2

CLARIN-IT: the message of our National Delegate



- Dear Colleagues attending the CLARIN Annual Conference 2018, I regret not attending your annual conference, but I am overwhelmed with commitments and am negotiating several important matters at the CNR for which my presence in Rome is essential.
- ...
- The qualitative leap will be one of the topics to which the CNR and the DSU in particular intends to apply by investing in digital infrastructures for SSH, and guaranteeing support to CLARIN, DARIAH and E-RIHS, with a view to optimizing resources first, integration of skills and interoperability of data, tools and services available to the research community in humanities, social sciences and heritage science.
- ...
- CLARIN-IT plays a central role in the national system of Research Infrastructures being one of the priority identified by the Italian RoadMap (PNIR) and ensuring the participation of the Italian sector research system in several European projects including E-LEXIS, PARTHENOS and SSHOC ...
- ..
- The strategic aim of the CNR-DSU is to create the conditions at the national level to ensure the Italian SSH research system a central role in the process of establishing the European Open Science Cloud, enhancing the nodes of the European infrastructures present on our territory and enhancing the skills of researchers, promoting methodological innovation in SSH research and the development of tools and services for cultural and creative industries.
- ...
- The sustainability of this system in the medium to long term is ensured by financial hedges from various national and European funding sources (H2020, ESIF, EOSC, PON, POR, etc.), such as the SSHOC Cluster a tool to consolidate space of the human and social disciplines in the EOSC which are flanked by the National Operational Programs and other forms of investment at national and local level, aimed at strengthening the Italian infrastructure network.



http://www.clarin-it.it/it

Monica Monachini - CLARIN Italian National Coordinator

ILC-CNR - National Executor

https://ilc4clarin.ilc.cnr.it/

Alessandro Enea - Data Center

Paola Baroni - Web, Dissemination, Membership Procedures

Riccardo Del Gratta - Repository

Sebastiana Cucurullo - Metadata

Valeria Quochi – User Involvement

coordination@clarin-it.it communication@clarin-it.it