Curriculum Vitae

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SHORT BIOGRAPHY

I work in the ICT field, mainly interested in theories, systems and methodologies for knowledge representation, acquisition, sharing and retrieval. I'm currently employed at Reinvent Technologies (Vancouver, Canada) as an R&D director and at the Italian National Research Council, Laboratory for Applied Ontology (LOA-ISTC-CNR, Rome, Italy) as a research scientist, where I'm coordinating the UE project BONy and collaborating with the NEON UE project. Formerly, I've been employed as a research scientist for seven years at the FBK-irst (Trento, Italy), where I participated to several research projects (MEANING, OntoText, FIRB-israel), at the University of Rome Tor Vergata, working on the PrestoSpace Project, and I worked as a consultant for several ICT companies. I got my Ph.D. in ICT at the University of Trento in 2005 and my degree in Philosophy at the University of Bologna in 2001. My academic work includes the publication of around than forty scientific publications in top level conference proceedings and international journals, editing of books, membership to program committees of international conferences (ACL, LREC, EKAW), organization of international conferences (EKAW 2008), teaching at international summer schools, master and PhD student supervision, invited talks at prestigious european institutions, writing and direction of research projects. My industrial work is mainly focalized in leading know how transfer from academy to industry, designing high level architectures for intelligent systems, writing technology transfer projects and interpreting the costumer needs to maximize the social impact of technology.

RESEARCH INTERESTS

Computational Linguistics Lexical Semantics, Word Sense Disambiguation, Lexical Acquisition, Multi-linguality, Textual Entailment

Knowledge Engineering Knowledge Acquisition, Ontology Design, Semantic WEB, Social Network Analysis

Information Retrieval Semantic Search, Cross Language Retrieval, Text Categorization

Machine Learning Kernel Methods, Unsupervised Learning, Bootstrapping, One Class Learning

Applications eLearning, Enterprise Workflow management, Automatic generation of WEB portals, Topic Detection

AFFILIATIONS

Italian National Research Council   *2007 -*
- Research Scientist
- Institution: Laboratory for Applied Ontology (LOA) at the Institute of Cognitive Sciences and Technologies (ISTC) of the Italian National Research Council (CNR), Rome
- Duties: Scientific coordinator of the BONy UE project

Reinvent Tecnologies Inc.   *December 2007 -*
- Senior R&D coordinator
- Vancouver, Canada
- Responsibilities: coordinator of R&D projects for the automatic generation of WEB portals

EDUCATION

Ph.D. in Information and Communication Technology   *2002-2005*
- University of Trento, Italy
- Supervisor: Carlo Strapparava
- Thesis: Semantic Domains in Computational Linguistics", December, 2005

"Laurea" degree summa cum laude in Philosophy (logic and epistemology) at the University of Bologna   *1996-2002*

- University of Bologna
- Supervisors: Maurizio Matteuzzi, Bernardo Magnini
- Thesis: Ruolo dei campi semantici nella struttura di un lessico computazionale: utilizzo per la disambiguazione automatica di senso", March, 2001

Qualified Programmer's Diploma I.T.I.S. "G. Marconi" Catania   *1990-1995*

PAST RESEARCH EMPLOYMENT

Research Scientist for the FIRB-israel project   *2007-2009*

- Institution: Fondazione Bruno Kessler (FBK) Istituto per la Ricerca Scientifica e Tecnologica (IRST), Trento
- Duties: research on relationship between textual Entailment and Ontology Learning

Research Consultant for the NEON UE project   *2007-2009*

- Institution: Laboratory for Applied Ontology (LOA) at the Institute of Cognitive Sciences and Technologies (ISTC) of the Italian National Research Council (CNR), Rome
- Duties: (i) coordination of task 7.3 - Ontology learning technology transfer at the Food and Agricolture Organization (FAO) of the United Nations, (ii) research and coordination of technology transfer of Semantic WEB technologies to enhance the Organization Workflow at CNR.

Research Consultant for the ONTOTEXT project   *2005-2006*

- Institution: Istituto Trentino di Cultura (ITC) - Istituto per la Ricerca Scientifica e Tecnologica (IRST), Trento
- Duties: (i) Development of Topic Detection systems (ii) Research on Ontology learning from texts

Research Consultant for the Presto Space UE project   *2005-2006*

- Institution: University of Rome Tor Vergata
- Duties: (i) research on Cross Language Information Retrieval (ii) development of a module for Latent Semantic Analysis

Research Consultant for the project MEANING UE project   *2001-2004*

- Institution: Istituto Trentino di Cultura (ITC) - Istituto per la Ricerca Scientifica e Tecnologica (IRST), Trento
- research and development of Word Sense Disambiguation systems

PAST INDUSTRIAL EMPLOYMENT

Consultant for Shopping.com   *2006*

- an eBay limited company, London, U.K.
- Responsibilities: research on optimizing text categorization systems for commercial advertising.

Consultant for BC Software S.r.l.   *2006*

- Catania, Italy.
- Responsibilities: Design of Natural Language Interfaces to databases.

STAGES

Visiting Researcher at CNTS   *March 2005 - September 2005*

- Institution: CNTS, Language Technology Group, Department of Linguistics of the University of Antwerp
- Supervisor: Walter Daelemans
- Duties: Research on Ontology Learning from Texts

Visiting Researcher at UPC   *September 2002*

- Institution: TALP - Research Center for Technologies and Applications in Language and Speech at the Universitat Politècnica de Catalunya, Barcelona, Spain
- Supervisor: Lluis Marques
- Duties: Research on Machine Learning methods for Word Sense Disambiguation

Visiting Researcher at the University of the Basque Country   *October 2002*
- Institution: IXA -Natural Language Processing group at the University of the Basque Country, Computer Science Faculty, San Sebastian, Spain
- Supervisor: German Rigau
- Duties: Research on Semantic Domains and Topic Signatures

Master Thesis stage at ITC-irst   *2000 - 2001*
- Institution: Istituto Trentino di Cultura (ITC) - Istituto per la Ricerca Scientifica e Tecnologica (IRST), Trento
- Supervisor: Bernardo Magnini
- Duties: Research on Semantic Domains and Word Sense Disambiguation

ORGANIZATION OF INTERNATIONAL CONFERENCES

- Industrial Panel Chair of the 16th International Conference on Knowledge Engineering and Knowledge Management (EKAW 2008)

- Programme committee member of the 16th International Conference on Knowledge Engineering and Knowledge Management (EKAW 2008)

- Scientific Committee member of the sixth international conference on Language Resources and Evaluation (LREC 2008)

- Reviewer for the 10th Congress of the Italian Association for Artificial Intelligence (IAXIA 2007)

- Program committee member the 45th Annual Meeting of the Association for Computational Linguistics, ACL-07, Prague, Czech Republic, Main conference, Semantics track

- Program committee member of the ACL 2007 Student Research Workshop

- Scientific committee member of LREC 2006: International Conference on Language, Resources and Evaluation

TEACHING

- Semantic Domains in Natural Language Processing. Advanced course at ESSLLI 2006. 31 July, 11 August, Malaga, Spain.

- An Introduction to Kernel methods for Natural Language Processing. Tutorial, University of Antewerp, October 2005.

PARTICIPATION TO EVALUATION CHALLENGES

- Participated at the English Lexical Sample task at the 4th International Workshop on Semantic Evaluation (SemEval-2007): best performing system on 13 participants.

- Participated at the English Lexical Substitution task at the 4th International Workshop on Semantic Evaluation (SemEval-2007): best performing system on 9 participants.

- Participated at the Pascal Challenge on the Evaluation of Machine Learning for Information Extraction achieving competitive results.

- Participated at the SENSEVAL-3 WSD competition developing the best performing systems for the following tasks: English lexical sample (coarse-grained evaluation), Italian lexical sample, Spanish lexical sample and Catalan lexical sample, 2004

- Participated at the SENSEVAL-2 WSD competition, developing the IRST Systems for the following tasks: English all words, English Lexical Sample, Italian lexical sample, 2001

INVITED TALKS

- October 6, 2006: Invited talk at the Dipartimento di Ingegneria Informatica, University of Palermo, Italy. Talk Title "Domain Driven Technologies for Natural Language Processing"

- July 28, 2006: Invited talk at Yahoo! Research, Barcelona, Spain. Talk Title "Domain Driven Technologies for Natural Language Processing"

- July 20, 2005: Invited talk at the Institut für Informatik of the University of Leipzig, Germany. Talk title: "Domain Models for Lexical Semantics and their applications in Natural Language Processing"

- March 18, 2005: Talk at the Department of Linguistics of the University of Antwerp, Belgium. Talk title: "Domain Models for Lexical Semantics and their applications in Natural Language Processing"; Speaker at the International Colloquium on "Word structure and lexical systems: models and applications", December 16-17, 2004, Pavia, Italy. "Domain models for lexical semantics"

- December 2, 2004: Invited talk at the Institute for Knowledge and Language Engineering of the University of Magdemburg, Germany. "Kernel Methods for Word Sense Disambiguation"

- October 6, 2004: Invited talk at the Department of Computer Science, Systems, and Production of the University of Rome Tor Vergata, Artificial Intelligence Research Group, Rome, Italy. Talk title: "Kernel Methods for Word Sense Disambiguation"

- October 5, 2004: Invited talk at the Institute of Cognitive Sciences and Technologies (ISTC), CNR, Rome, Italy. Talk title: "Domain Models for Lexical Semantics and their applications in Natural Language Processing"

HONORS AND AWARDS

- Honored with biography selected for inclusion in the 25th Silver Anniversary Edition of Who's Who in the World.

COMPUTER SCIENCE BACKGROUND

Operating Systems UNIX, DOS, WINDOWS FAMILY, WINDOWS NT, MACINTOSH, SUN SOLARIS

Languages JAVA, LISP, PERL, C, C++, PASCAL

Databases MySQL

SPOKEN LANGUAGES

- Italian (native language)

- English (fluent)

LIST OF PUBLICATIONS

Books:

- Alfio Gliozzo, Francesco Bianchini, Maurizio Matteuzzi(Eds.)." Instrumentum Vocale: intelligenza artificiale e linguaggio", 2007, Bononia University Press

Chapters:

- Aldo Gangemi e Alfio Massimiliano Gliozzo, Ontologie, in Instrumentum Vocale: intelligenza artificiale e linguaggio", 2007, Bononia University Press

- Alfio Massimiliano Gliozzo, Epilogo: il sognificato tra geometria e logica, in Instrumentum Vocale: intelligenza artificiale e linguaggio", 2007, Bononia University Press

Journal Articles:

- Roberto Basili, Alfio Massimiliano Gliozzo, Paolo Marocco. "Teorie geometriche del significato", Res Cogitans, ISSN 1828-7778, 2006.

- D. Pérez, A. Gliozzo, E. Alfonseca, C. Strapparava, B. Magnini, and P. Rodriguez. Sobre los efectos de combinar análisis de semántica oculta con otras técnicas de procesamiento de lenguaje natural para la evaluación de preguntas abiertas, Revista Signos, 38(59), November 2005.

- Alfio Massimiliano Gliozzo, Claudio Giuliano and Raffaella Rinaldi. "Instance Filtering for Entity Recognition", in ACM SIGKDD Explorations, special Issue on Natural Language Processing and Text Mining, 7(1), pp. 11-18, June 2005.

- A. Gliozzo, C. Strapparava, I. Dagan. "Unsupervised and Supervised Exploitation of Semantic Domains in Lexical Disambiguation", in Computer Speech and Language,18(3), pp. 275-299 , 2004.

- B. Magnini, C. Strapparava, G. Pezzulo, A. Gliozzo. "The Role of Domain Information in Word Sense Disambiguation", Natural Language Engineering, special issue on Word Sense Disambiguation, 8(4), pp. 359-373, Cambridge University Press, 2002.

Papers at Refereed Conferences and Workshops:

- Davide Picca, Alfio Massimiliano Gliozzo, Aldo Gangemi, LMM: an OWL-DL MetaModel to Represent Heterogeneous Lexical Knowledge, in Proceeding of the sixth international conference on Language Resources and Evaluation (LREC 2008), Marrakech, Morocco, 2008

- Davide Picca, Alfio Massimiliano Gliozzo, Massimiliano Ciaramita, Supersense Tagger for Italian, in Proceeding of the sixth international conference on Language Resources and Evaluation (LREC 2008), Marrakech, Morocco, 2008

- Alfio Gliozzo, Aldo Gangemi, Valentina Presutti, Elena Cardillo, Enrico Daga, Alberto Salvati and Gianluca Troiani."A Semantic Web Layer to Enhance Legacy Systems, Proceedings of 6th International Semantic Web Conference, Busan, Korea, 2007

- Chris Biemann, Claudio Giuliano and Alfio Gliozzo. "Unsupervised Part-Of-Speech Tagging Supporting Supervised Methods". Proceedings of the International Conference Recent Advantages in Natural Language Processing (RANLP), September 2007, Bulgaria.

- Roberto Basili, Alfio Gliozzo and Marco Pennacchiotti. "Harvesting Ontologies from Open Domain Corpora: a Dynamic Approach". Proceedings of the International Conference Recent Advantages in Natural Language Processing (RANLP), September 2007, Bulgaria.

- Claudio Giuliano, Alfio Gliozzo and Carlo Strapparava. "Lexical Substitution Task Exploiting Domain and Syntagmatic coherence. Proceedings of the 4th International Workshop on Semantic Evaluations (SemEval-2007), Prague, 28-30 June 2007.

- Claudio Giuliano and Alfio Gliozzo. "Instance Besed Lexical Entailment for Ontology Population". Proceeding of the 2007 Joint Conference on Empirical Methods in Natural Language Processing and Computational Natural Language Learning (EMNLP-CoNLL), pp. 248–256, Prague, 2007.

- Davide Picca, Alfio Massimiliano Gliozzo and Massimiliano Ciaramita. 2007. "Semantic Domains and Supersense Tagging for Domain-Specific Ontology Learning", in Proceedings of RIAO'2007, Pittsburgh.

- Alfio Massimiliano Gliozzo, Marco Pennacchiotti and Patrick Pantel. 2007. "The Domain Restriction Hypothesis: Relating Term Similarity and Semantic Consistency". In Proceedings of North American Association for Computational Linguistics / Human Language Technology (NAACL HLT 07). pp. 131-138. Rochester, NY.

- Roberto Basili, Marco Cammisa and Alfio Gliozzo. "Integrating Domain and Paradigmatic Similarity for Unsupervised Sense Tagging." in Proceedings of ECAI 2006, Riva del Garda, Italy

- Ido Dagan, Oren Glickman, Alfio Gliozzo, Efrat Marmorshtein and Carlo Strapparava."Direct Word Sense Matching for Lexical Substitution". Proceedings of the 45th Annual Meeting of the Association for Computational Linguistics (ACL'06), Sidney, Australia, 2006.

- Alfio Massimiliano Gliozzo and Carlo Strapparava. "Exploiting Comparable Corpora and Bilingual Dictionaries for Cross-Language Text Categorization". Proceedings of the 45th Annual Meeting of the Association for Computational Linguistics (ACL'06), Sidney, Australia, 2006.

- Alfio Massimiliano Gliozzo. "The GOD model", EACL-06 poster session, Trento, Italy.

- Alfio Massimiliano Gliozzo. "Semantic Domains and Linguistic Theory" in Proceedings of the LREC 2006 workshop "Toward Computational Models of Literary Analysis", Genova, Italy, 2006.

- Claudio Giuliano, Alfio Gliozzo and Carlo Strapparava. "Syntagmatic Kernels: a Word Sense Disambiguation case study", in proceedings of the EACL-06 workshop on Learning Structured Information in Natural Language Applications. Trento, Italy.

- Alfio Gliozzo, Carlo Strapparava and Ido Dagan. "Investigating Unsupervised Learning for Text Categorization Bootstrapping". Proceedings of the joint Human Language Technology Conference and Conference on Empirical Methods in Natural Language Processing (HLT/EMNLP), 2005, Vancouver, B.C., Canada

- Alfio Massimiliano Gliozzo, Claudio Giuliano and Carlo Strapparava. "Domain Kernels for Word Sense Disambiguation". Proceedings of the 43th Annual Meeting of the Association for Computational Linguistics (ACL'05), pages 403-410, Ann Arbor, Michigan, June, 2005.

- Alfio Massimiliano Gliozzo and Carlo Strapparava. "Domain Kernels for Text Categorization". Proceedings of the Ninth Conference on Computational Natural Language Learning (CoNLL-2005), pages 56–63, Ann Arbor, Michigan, June, 2005.

- Alfio Massimiliano Gliozzo and Carlo Strapparava. "Cross Language Text Categorization by acquiring Multilingual Domain Models from Comparable Corpora". Proceedings of the ACL Workshop on Building and Using Parallel Texts, pages 9–16, Ann Arbor, Michigan, June, 2005.

- D. Perez, A. Gliozzo, C. Strapparava, Enrique Alfonseca, Pilar Rodriguez and Bernardo Magnini. "Automatic Assessment of Students' free-text Answers underpinned by the Combination of a Bleu-inspired algorithm and LSA". Proceedings of FLAIRS-2005, Clearwater Beach, Florida, May 16-18, 2005.

- Claudio Giuliano, Alfio Massimiliano Gliozzo, Alberto Lavelli, Lorenza Romano, "Filtering Uninformative Words to Speed up IE: ITC-irst Participation in the PASCAL Challenge". Proceedings of the PASCAL Challenges Workshop, Southampton, U.K., pages 11-13, April 2005.

- Ernesto D'avanzo, Alfio Massimiliano Gliozzo, Carlo Strapparava "Automatic Acquisition of Domain Information for Lexical Concepts". Proceedings of the MEANING-2005 workshop, Trento, Italy, 2005.

- Alfio Gliozzo, Bernardo Magnini and Carlo Strapparava, "Unsupervised Domain Relevance Estimation for Word Sense Disambiguation", in Proceedings of the 2004 Conference on Empirical Methods in Natural Language Processing (EMNLP-04), Barcelona, Spain, 25-26 July 2004.

- Carlo Strapparava, Claudio Giuliano, Alfio Gliozzo. "Pattern Abstraction and Term Similarity for Word Sense Disambiguation: IRST at Senseval-3". Proceedings of the Third International Workshop on the Evaluation of Systems for the Semantic Analysis of Text (Senseval-3), Barcelona, Spain, 25-26 July 2004.

- Bernardo Magnini, Carlo Strapparava, Giovanni Pezzulo and Alfio Gliozzo. "Using Domain Information for Word Sense Disambiguation". Proceedings of SENSEVAL-2: Second International Workshop on Evaluating Word Sense Disambiguation Systems, Toulouse(France), 2001.

- Alfio Massimiliano Gliozzo, Claudio Giuliano and Raffaella Rinaldi. "Instance Pruning by filtering Uninformative Words: an Information Extraction Case Study", Proceedings of CICLING 2005, Mexico, 2005.

- Alfio Massimiliano Gliozzo, Carlo Strapparava and Marcello Ranieri. "Crossing Parallel Corpora and Multilingual Lexical Databases for WSD", in Proceedings of CICLING 2005, Mexico, 2005

- Bernardo Magnini, Carlo Strapparava, Giovanni Pezzulo, Alfio Gliozzo. "Comparing ontology-Based and Corpus-based Domain Annotations in Wordnet". Proceedings of the First Global WordNet Conference, Mysore, India, 2002.

- Bernardo Magnini, Carlo Strapparava, Giovanni Pezzulo and Alfio Gliozzo. "Using Domain Information for Word Sense Disambiguation". in Proceedings of SENSEVAL-2: Second International Workshop on Evaluating Word Sense Disambiguation Systems, Toulouse(France), 2001.

In press:

- Alfio Gliozzo, Carlo Strapparava."Semantic Domains in Natural Language Processing", Springer, to be published.