Georgios Petasis

Curriculum Vitae

Personal Information

Work Address:	Institute of Informatics and Telecommunications, National Centre for Scientific Research "Demokritos", 153 10 Ag. Paraskevi, Athens, Greece.
Work Telephone:	+30-210-6503197
Home Address:	PO Box 8055, Goritsa Aspropirgou, 19300, Aspropirgos, Attiki, Greece.
Home Telephone:	+30-210-5599788, +30-697-2470116
Nationality:	Greek
Date of Birth:	26 August 1974
E-mail:	petasis@iit.demokritos.gr, petasisg@yahoo.gr
URL:	http://www.ellogon.org/petasis/

Research Interests

- **Natural Language Processing**, mainly with the use of machine learning algorithms.
  - Development of named-entity recognition systems based on machine learning algorithms that can be easily adapted to new thematical domains and languages.
  - Automated extraction of language resources, like morphological lexicons, ontologies, rules for part-of-speech tagging, lists for recognising entities, etc.
  - Development of user friendly graphical interfaces for the development of tagged corpora.
  - Development – exploitation of electronic lexicons.
- **Natural Language Processing Infrastructures/Platforms.**
  - Design and implementation of integrated infrastructures for natural language processing.
  - Author of the Ellogon language engineering platform.
- **Machine Learning Algorithms.**
  - Named-entity recognition with the use of grammatical inference.
  - Development of new machine learning algorithms specialised for natural language processing.
  - Author of the egGRIDS+ grammatical inference algorithm (inferring context-free grammars from positive examples).
- **Ontology Learning.**
  - Ontology population.
  - Ontology evolution.

Education

- 1999 – 2011   University of Athens, Department of Informatics and Telecommunications
  Ph.D. in **Computer Science**
  Thesis title: "Machine Learning in Natural Language Processing"
- 1992 – 1997   University of Crete, Department of Physics
  BSc in **Physics**

Work Experience

June 2010	Associate	NCSR "Demokritos"

Associate at the Systems Reliability and Industrial Safety Laboratory of the Institute of Nuclear Technology and Radiation Protection of N.C.S.R. "Demokritos". Participating in the projects "Workgroup occupational risk model (WORM) Metamorphosis phase", "RAM" Masterplan Project", and "Technical Evaluation of the ORCA Tools", funded by the National Institute for Public Health and the Environment (RIVM) – Nederlands. Main responsibility was to cover the programming needs of the laboratory for the project.

July 2009 – present day	Research Associate	NCSR "Demokritos"

Research Associate at the Software and Knowledge Engineering Laboratory of the Institute of Informatics and Telecommunications of N.C.S.R. "Demokritos". Participating in the EU funded project "SYNC3". Main responsibility is research on classification of blog posts through domain adaptation of a classification model concerning news items into events.

July 2008 – March 2009	Associate	NCSR "Demokritos"

Associate at the Systems Reliability and Industrial Safety Laboratory of the Institute of Nuclear Technology

and Radiation Protection of N.C.S.R. "Demokritos". Participating in the projects "Workgroup occupational risk model (WORM) Metamorphosis phase" and "RAM" Masterplan Project", funded by the National Institute for Public Health and the Environment (RIVM) – Nederlands. Main responsibility was to cover the programming needs of the laboratory for the project.

January 2007 – December 2007	Research Associate	NCSR "Demokritos"

Research Associate at the Software and Knowledge Engineering Laboratory of the Institute of Informatics and Telecommunications of N.C.S.R. "Demokritos". Participating in project "ΞΕΝΙΟΣ", funded by the Greek Government. Main responsibility was the integration of natural language generation tools on a robotic platform.

June 2006 – May 2009	Research Associate	NCSR "Demokritos"

Research Associate at the Software and Knowledge Engineering Laboratory of the Institute of Informatics and Telecommunications of N.C.S.R. "Demokritos". Participating in the EU funded project "BOEMIE". Main responsibilities include information extraction from texts, as well as ontology learning.

September 2004 – February 2005	Research Associate	NCSR "Demokritos"

Research Associate at the Institute of Informatics and Telecommunications of N.C.S.R. "Demokritos". Participating in the project "eSchoolLib", funded by the Greek Government. Main responsibility was to design and implement a document classification system for documents in the Greek language.

November 2003 – December 2007	Associate	NCSR "Demokritos"

Associate at the Systems Reliability and Industrial Safety Laboratory of the Institute of Nuclear Technology and Radiation Protection of N.C.S.R. "Demokritos". Participating in the project "Workgroup occupational risk model", funded by the National Institute for Public Health and the Environment (RIVM) – Nederlands. Main responsibility was to cover the programming needs of the laboratory for the project.

May 2002 – October 2003	Research Associate	NCSR "Demokritos"

Research Associate at the Software and Knowledge Engineering Laboratory of the Institute of Informatics and Telecommunications of N.C.S.R. "Demokritos". Participating in the EU funded project "CROSSMARC". Main responsibility was the design and implementation of a named entity recognition and classification (NERC) system, based on machine learning algorithms, customisable to multiple thematic domains and languages.

November 1998 – April 2002	Ph.D. Student (Scholarship)	NCSR "Demokritos"

PhD student at the Software and Knowledge Engineering Laboratory of the Institute of Informatics and Telecommunications of N.C.S.R. "Demokritos".

Research Project Participation

International Projects

2006 – 2009   BOEMIE: Bootstrapping Ontology Evolution with Multimedia Information Extraction
The BOEMIE project proposes a bootstrapping approach to knowledge acquisition, which uses multimedia ontologies for fused extraction of semantics from multiple modalities, and feeds back the extracted information, aiming to automate the ontology evolution process. BOEMIE methodology BOEMIE advocates an ontology-driven multimedia content analysis (semantics extraction from images, video, text, audio/speech) through a novel synergistic method that combines multimedia extraction and ontology evolution in a bootstrapping fashion.

2001 – 2003   CROSSMARC: Cross-lingual multi-agent retail
The aim of CROSSMARC was to develop next-generation technology for electronic-retail product comparison, drawing on techniques from language engineering, machine learning and user modelling. My responsibility was to design and implement a cross-lingual and cross-thematic-domain named-entity recognition engine (NERC), based on various machine-learning techniques. The produced NERC engine has been successfully tested on all four languages (English, French, Greek and Italian), and three thematic domains (laptop advertisements, job offers and real-estate advertisements) of the project. The adaptation of the NERC engine to new languages/thematic domains was fully automated. The NERC engine was developed inside the Ellogon Language Engineering Platform.

2000 – 2002   ADIET: Adaptive Information Extraction Technology
The ADIET project developed technology for customising information extraction systems to new thematic domains, exploiting machine learning techniques. My participation

involved research in a new semi-automatic method for adapting a named-entity recognition system to new thematic domains, as well as the development of the recognition system and the adaptation tools.

1999 – 2001   ANET: Adaptive Named-Entity Recognition Technology
The ANET project targeted the development of a named entity recognition system for Italian, Greek and English that will be easily adaptable to new domains. My participation involved research/implementation of the recognition systems for the Greek and English languages.

1997 – 1999   GIE: Greek Information Extraction
The GIE project aimed the development of a prototype named entity recogniser for the Greek language, based on a similar system developed by University of Sheffield, UK for the English language. My participation involved the adaptation process as well as the implementation of the new system.

1997 – 1998   ECRAN: Extraction of Content: Research at Near-Market
ECRAN has developed a new generation of Information Extraction (IE) applications suitable for use in telematic services having a large textual content. My participation involved running the project experiments related to the information extraction system evaluation.

National Projects

2010 – 2011   CLARIN-EL
The project CLARIN-EL PREP prepares the ground for the Greek part of the European CLARIN initiative, by taking on the cartography of the Greek area regarding the existence of language resources and technologies, as well as the organization and coordination of a network in the service of the research community in Greece. NCSR is responsible for the collection and checking of information about language technology tools in the Greek area.

2006 – 2008   XENIOS
Human-robot interaction using speech processing, natural language generation, and computer vision.

2003 – 2004   eSchoolLib
In the context of the eSchoolLib, I developed a trainable Document Classifier based on a combination of machine learning algorithms.

1999 – 2001   SCHEMATOPOIESIS: Integrated environment for the development and exploitation of Greek controlled languages
The SCHEMATOPOIESIS project aimed to develop a Greek style checker for technical documents, exploiting techniques from the area of Language Technology. My responsibilities included research and development of the style checker, as well as its integration with the Microsoft Word document editor.

1999 – 2000   AUTONOMA: Automatic Acquisition of Named-Entity Recognition Grammars for Greek
AYTONOMA is applying machine learning methods to the problem of acquiring automatically a named-entity recognition grammar for Greek. My involvement was in both research and implementation of the project. Results and software from my PhD was used in this project.

1999 – 2001   MITOS: Document filtering, information extraction and data-mining applied to financial news
MITOS developed a unified document-filtering, information extraction, and data-mining system, applied to Greek financial news. My involvement in the project was the design and implementation of the named entity recognition system for the Greek language.

Personal Projects

The following projects are self-motivated, self-supported projects. Their results are open to everyone, under various licenses.

1998 – today   Ellogon: A Language Engineering Platform
Ellogon is a component-based, open architecture for language engineering. I have designed and implemented Ellogon, along with a comprehensive set of language processing components and tools, for various languages. Ellogon has been used by many universities and research institutes in various projects.

1999 – today   HLexicon: A Large Scale Morphological Lexicon for the Greek Language
I have designed and implemented a large scale morphological lexicon for the Greek language. The lexicon has been used by a few organisations, such as NCSR "Demokritos" - Greece, Stockholm University – Sweden and Saarland University – Germany, in various projects.

1999 – today   HLemmatiser: A Lemmatiser for the Greek Language
I have designed and implemented a lemmatiser for the Greek language, based on the HLexicon morphological lexicon. The lemmatiser has been used by a few organisations,

such as NCSR "Demokritos" - Greece, Stockholm University – Sweden and Saarland University – Germany, in various projects.

1999 – today HBrill: A part-of-speech tagger for the Greek language
This is a re-implementation of the Eric's Brill part-of-speech tagger, trained on a small Greek corpus. It is used as the main part-of-speech tagging component in the Ellogon language engineering platform.

1997 – today egGRIDS+: A set of tools for inferring Context-Free Grammars (CFG) from plain text
I have designed an unsupervised machine learning algorithm, for inferring context-free and probabilistic context-free grammars from plain (unstructured) text. This project is related to my Ph.D. thesis.

Skills

- Languages: English (fluent – Certificate of Proficiency in English, Cambridge University, United Kingdom), Greek (native speaker)., French (limited knowledge).
- Excellent knowledge of a wide range of programming languages, including FORTRAN 77, C, C++, Java, Tcl, PHP, Perl & Python. Very good knowledge of programming under various operating systems, including Microsoft Windows and many Unix systems (IBM AIX, HP UX, SUN Solaris, Linux, Free BSD, etc.)
- Excellent knowledge of object-oriented programming in C++ and Java.
- Significant experience as a system administration in both Unix and Windows systems.

Publications

1. G. Petasis, V. Karkaletsis, G. Paliouras, A. Krithara, E. Zavitsanos, "Ontology Population and Enrichment: State of the Art". In "Knowledge-Driven Multimedia Information Extraction and Ontology Evolution", G. Paliouras, C.D. Spyropoulos, G. Tsatsaronis (Eds.), Lecture Notes in Artificial Intelligence, **Vol. 6050**, pp. 134 – 166, Springer, ISBN 978-3-642-20794-5, 2011.

2. V. Karkaletsis, P. Fragkou, G. Petasis, E. Iosif, "Ontology Based Information Extraction from Text". In "Knowledge-Driven Multimedia Information Extraction and Ontology Evolution", G. Paliouras, C.D. Spyropoulos, G. Tsatsaronis (Eds.), Lecture Notes in Artificial Intelligence, **Vol. 6050**, pp. 89 – 109, Springer, ISBN 978-3-642-20794-5, 2011.

3. G. Petasis. "TkRibbon: Windows Ribbons for Tk". In Proceedings of the **17th Annual Tcl/Tk Conference (Tcl 2010)**, Hilton Suites Chicago/Oakbrook Terrace, 10 Drury Lane, Oakbrook Terrace, Illinois, United States 60181, October 11 – 15, 2010.

4. G. Petasis. "TkGecko: Another Attempt for an HTML Renderer for Tk". In Proceedings of the **17th Annual Tcl/Tk Conference (Tcl 2010)**, Hilton Suites Chicago/Oakbrook Terrace, 10 Drury Lane, Oakbrook Terrace, Illinois, United States 60181, October 11 – 15, 2010.

5. G. Petasis. "TileQt and TileGtk: current status". In Proceedings of the **17th Annual Tcl/Tk Conference (Tcl 2010)**, Hilton Suites Chicago/Oakbrook Terrace, 10 Drury Lane, Oakbrook Terrace, Illinois, United States 60181, October 11 – 15, 2010.

6. G. Petasis. "Ellogon and the challenge of threads". In Proceedings of the **17th Annual Tcl/Tk Conference (Tcl 2010)**, Hilton Suites Chicago/Oakbrook Terrace, 10 Drury Lane, Oakbrook Terrace, Illinois, United States 60181, October 11 – 15, 2010.

7. G. Petasis. "TkDND: a cross-platform drag'n'drop package". In Proceedings of the **17th Annual Tcl/Tk Conference (Tcl 2010)**, Hilton Suites Chicago/Oakbrook Terrace, 10 Drury Lane, Oakbrook Terrace, Illinois, United States 60181, October 11 – 15, 2010.

8. G. Petasis and D. Petasis. "**BlogBuster: A tool for extracting corpora from the blogosphere**". In Proceedings of the 7th Language Resources and Evaluation Conference (LREC 2010), Valletta, Malta, May 19 – 21, 2010. [**Poster**]

9. G. Petasis, V. Karkaletsis, A. Krithara, G. Paliouras and C.D. Spyropoulos. "**Semi-automated ontology learning: the BOEMIE approach**". In Proceedings of the **International Workshop on Inductive Reasoning and Machine Learning on the Semantic Web (IRMLeS 2009)**, 6th European Semantic Web Conference (ESWC 2009), Hersonissos, Crete, Greece, May 31, 2009.

10. S. Castano, I.S.E. Peraldi, A. Ferrara, V. Karkaletsis, A. Kaya, R. Möller, S. Montanelli, G. Petasis, and M. Wessel, "Multimedia Interpretation for Dynamic Ontology Evolution". In Journal of Logic and Computation, September 2008. **http://logcom.oxfordjournals.org/cgi/content/abstract/exn049**

11. D. Spiliotopoulos, G. Petasis, and G. Kouroupetroglou, "A Framework for Language-Independent Analysis and Prosodic Feature Annotation of Text Corpora". In Proceedings of the 11th International Conference on Text, Speech and Dialogue (TSD 2008), Lecture Notes in Artificial Intelligence 5246, Text

Speech and Dialogue, Springer-Verlag Berlin Heidelberg, pp. 517 – 524, Brno, Czech Republic, September 8 – 12, 2008.

12. G. Petasis, V. Karkaletsis, G. Paliouras, C. D. Spyropoulos, "**Learning context-free grammars to extract relations from text** ". In Proceedings of the 18th European Conference on Artificial Intelligence (ECAI 2008), pp. 303 – 307, Patras, Greece, July 2008.

13. P. Fragkou, G. Petasis, A. Theodorakos, V. Karkaletsis, and C. D. Spyropoulos, "**BOEMIE ontology-based text annotation tool**". In Proceedings of the 6th Language Resources and Evaluation Conference (LREC 2008), Marrakech (Morocco), May 28 – 30, 2008.

14. G. Petasis, P. Fragkou, A. Theodorakos, V. Karkaletsis, and C. D. Spyropoulos, "**Segmenting HTML pages using visual and semantic information**". In Proceedings of the 4th Web as a Corpus Workshop (WAC2008), 6th Language Resources and Evaluation Conference (LREC 2008), pp. 18 – 25, Marrakech (Morocco), June 1, 2008. Procdings: **The 4th Web as Corpus: Can we do better than Google?**

15. Silvana Castano, Sofia Espinosa, Alfio Ferrara, Vangelis Karkaletsis, Atila Kaya, Sylvia Melzer, Ralf Moller , Stefano Montanelli, and Georgios Petasis, "**Ontology Dynamics with Multimedia Information: The BOEMIE Evolution Methodology**". In Proceedings of International Workshop on Ontology Dynamics (IWOD) ESWC 2007 Workshop, pp. 41 – 54, Innsbruck, Austria, 7 June 2007. (**download** – **http://kmi.open.ac.uk/events/iwod/**)

16. D. Spiliotopoulos, G. Petasis, and G. Kouroupetroglou, "**Prosodically Enriched Text Annotation for High Quality Speech Synthesis**". In Proceedings of the 10th International Conference on Speech and Computer (SPECOM-2005), pp. 313 – 316, Patras, Greece, 17 – 19 October, 2005.

17. G. Petasis, G. Paliouras, C. D. Spyropoulos and C. Halatsis, "**eg-GRIDS: Context-Free Grammatical Inference from Positive Examples using Genetic Search**". In Proceedings of the 7th International Colloquium on Grammatical Inference (ICGI 2004), Lecture Notes in Artificial Intelligence 3264, pp. 223 – 234, Springer, 2004.

18. G. Petasis, V. Karkaletsis, C. Grover, B. Hachey, M. T. Pazienza, M. Vindigni, J. Coch: "**Adaptive, Multilingual Named Entity Recognition in Web Pages**". In Proceedings of the 16th European Conference on Artificial Intelligence (ECAI 2004), pp. 1073 – 1074, Valencia, Spain, August 22 – 27, 2004. [**Extended Version**]

19. G. Petasis, G. Paliouras, V. Karkaletsis, C. Halatsis, and C.D. Spyropoulos, "**e-GRIDS: Computationally Efficient Grammatical Inference from Positive Examples**". GRAMMARS, (7), pp. 69 – 110, 2004. (**http://grammars.grlmc.com/special.asp**) [**Technical Report referenced in the paper**]

20. B. Gatos, S. J. Perantonis, V. Maragos, V. Karkaletsis and G. Petasis, "**Text Area Identification in Web Images**". In Proceedings of the Panhellenic Conference in Artificial Intelligence (SETN 04), Lecture Notes in Artificial Intelligence, n. 3025, pp. 82 – 92, Springer Verlag, Samos, Greece, May 2004.

21. G. Petasis, V. Karkaletsis, D. Farmakiotou, I. Androutsopoulos, and C.D. Spyropoulos. "**A Greek Morphological Lexicon and its Exploitation by Natural Language Processing Applications**". In Lecture Notes on Computer Science (LNCS), vol. 2563, "Advances in Informatics - Post-proceedings of the 8th Panhellenic Conference in Informatics", Springer Verlag, pp. 401 – 419, 2003. (**http://www.springerlink.com/content/hcdjrlvj5nlybf5c/**)

22. G. Petasis, V. Karkaletsis, G. Paliouras and C. D. Spyropoulos, "**Using the Ellogon Natural Language Engineering Infrastructure**". In Proceedings of the Workshop on Balkan Language Resources and Tools, 1st Balkan Conference in Informatics (BCI'2003), Thessaloniki, Greece, November 21, 2003. (**http://www.iit.demokritos.gr/skel/bci03_workshop/papers/SESSION5_2-23_Petasis.pdf**)

23. G. Petasis, V. Karkaletsis, and C. D. Spyropoulos, "**Cross-lingual Information Extraction from Web pages: the use of a general-purpose Text Engineering Platform**". In Proceedings of the 4th International Conference on Recent Advances in Natural Language Processing (RANLP 2003), Borovets, Bulgaria, pp 381 – 388, September 10 – 12, 2003.

24. G. Petasis, V. Karkaletsis, G. Paliouras, I. Androutsopoulos and C. D. Spyropoulos, "**Ellogon: A New Text Engineering Platform**". In Proceedings of the 3rd International Conference on Language Resources and Evaluation (LREC 2002), Las Palmas, Canary Islands, Spain, vol. I, pp. 72 – 78, May 2002.

25. C. Grover, S. McDonald, D. N. Gearailt, V. Karkaletsis, D. Farmakiotou, G. Samaritakis, G. Petasis, M. T. Pazienza, M. Vindigni, F. Vichot and F. Wolinski, "**Multilingual XML-Based Named Entity Recognition for E-Retail Domains**". In Proceedings of the 3rd International Conference on Language Resources and Evaluation (LREC 2002), Las Palmas, Canary Islands, Spain, May 2002.

26. D. Farmakiotou, V. Karkaletsis, I. Koutsias, G. Petasis, C.D. Spyropoulos, "**PatEdit: An Information Extraction Pattern Editor for Fast System Customization**". In Proceedings of the 3rd International Conference on Language Resources and Evaluation (LREC 2002), Las Palmas, Spain, May 2002.

27. D. Farmakiotou, V. Karkaletsis, G. Samaritakis, G. Petasis, and C.D. Spyropoulos "**Named Entity Recognition from Greek Web Pages**", Proceedings Companion Volume of 2nd Hellenic Conference on Artificial Intelligence (SETN-02), I.P. Vlahavas and C.D. Spyropoulos (eds), 2002, pp. 91 – 102.

28. G. Petasis, V. Karkaletsis, D. Farmakiotou, G. Samaritakis, I. Androutsopoulos, C. D. Spyropoulos, "**A Greek Morphological Lexicon and its Exploitation by a Greek Controlled Language Checker**". In Proceedings of the 8th Panhellenic Conference on Informatics, Nicosia, Cyprus, vol. 1, pp. 80 – 89, 8 – 10 November 2001.

29. G. Petasis, F. Vichot, F. Wolinski, G. Paliouras, V. Karkaletsis, C. D. Spyropoulos, "**Using Machine Learning to Maintain Rule-based Named – Entity Recognition and Classification Systems**". In Proceedings of the 39th Conference of Association for Computational Linguistics (ACL-EACL 2001), pp. 426 – 433, July 9 – 11 2001, Toulouse, France.

30. V. Karkaletsis, G. Samaritakis, G. Petasis, D. Farmakiotou, I. Androutsopoulos, S. Markantonatou, and C.D. Spyropoulos, "A Controlled Language Checker Based on the Ellogon Text Engineering Platform". In Proceedings of the 2nd Meeting of the North American Chapter of the Association for Computational Linguistics (NAACL 2001), demonstration notes (companion volume to the proceedings), pp. 74 – 75, Carnegie Mellon University, Pittsburgh, USA, 2001.

31. G. Petasis, S. Petridis, G. Paliouras, V. Karkaletsis, S. Perantonis, and C.D. Spyropoulos, "**Symbolic and Neural Learning of Named-Entity Recognition and Classification Systems in Two Languages**", In Advances in Computational Intelligence and Learning: Methods and Applications, H–J. Zimmermann, G. Tselentis, M. van Someren and G. Dounias (eds), Kluwer Academic Publishers, 2001.

32. G. Petasis, S. Petridis, G. Paliouras, V. Karkaletsis, S. J. Perantonis, C. D. Spyropoulos, "**Symbolic and Neural Learning for Named-Entity Recognition**". In Proceedings of European Best Practice Workshops and Symposium on Computational Intelligence and Learning (COIL 2000), pp. 58 – 66, June 19 – 23 2000, Chios, Greece.

33. G. Petasis, A. Cucchiarelli, P. Velardi, G. Paliouras, V. Karkaletsis, C. D. Spyropoulos, "**Automatic adaptation of Proper Noun Dictionaries through cooperation of machine learning and probabilistic methods**". In Proceedings of the 23rd Annual International ACM SIGIR Conference on Research and Development in Information Retrieval (SIGIR), pp. 128 – 135, July 24 – 28 2000, Athens, Greece.

34. G. Paliouras, V. Karkaletsis, G. Petasis and C. D. Spyropoulos, "**Learning Decision Trees for Named-Entity Recognition and Classification**". In Proceedings of the 14th European Conference on Artificial Intelligence (ECAI 2000), August 20 – 25 2000, Berlin, Germany.

35. G. Petasis, "Machine Learning and Named-Entity Recognition". Presentation in the 8th ELSNET European Summer School on Language and Speech Communication on the subject of Text and Speech Triggered Information Access (TeSTIA 2000), Chios, Greece, July 15 – 30, 2000.

36. G. Petasis, G. Paliouras, V. Karkaletsis, C.D. Spyropoulos and I. Androutsopoulos, "**Resolving Part-of-Speech Ambiguity in the Greek Language Using Learning Techniques**". In Fakotakis, N. et al. (Eds.), Machine Learning in Human Language Technology (Proceedings of the ECCAI Advanced Course on Artificial Intelligence – ACAI '99), pp. 29 – 34, July 5 – 16, 1999, Chania, Greece.

37. G. Petasis, "Exploiting Learning in Bilingual Named Entity Recognition". In Proceedings of the ECCAI Advanced Course on Artificial Intelligence (ACAI '99), July 5 – 16, 1999, Chania, Greece.

38. G. Petasis, G. Paliouras, V. Karkaletsis, C. D. Spyropoulos, I. Androutsopoulos, "**Using Machine Learning Techniques for Part-Of-Speech Tagging in the Greek Language**". In "Advances in Informatics: Proceedings of the Panhellenic Conference on Informatics (EPY)", D.I. Fotiadis and S.D. Nikolopoulos (eds.), pp. 273 – 281, World Scientific, 2000 (Post-Proceedings volume of the 7th Hellenic Conference on Informatics, August 26 – 29 1999, Ioannina, Greece).

39. V. Karkaletsis, G. Paliouras, G. Petasis, N. Manousopoulou and C. D. Spyropoulos, "**Named-Entity Recognition from Greek and English Texts**". Journal of Intelligent and Robotic Systems v. 26, n.2, pp. 123 – 135, 1999.

40. V. Karkaletsis, C. D. Spyropoulos, and G. Petasis, "Named Entity Recognition from Greek texts: the GIE Project". In "Advances in Intelligent Systems: Concepts, Tools and Applications", ed. S. Tzafestas, Kluwer Academic Publishers, Part II – Chapter 12, pp. 131 – 142. (Presented at the 3rd European Robotics Intelligent Systems & Control Conference (EURISCON'98), June 22 – 25 1998, Athens, Greece.)