

**Prodromos Malakasiotis**  
Curriculum Vitae

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## 1. CONTACT INFORMATION

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## 2. RESEARCH INTERESTS

**Artificial Intelligence**, especially **natural language processing**, and particularly:

- **deep learning** for natural language processing
- natural language **question answering** especially for the biomedical domain,
- **text summarization**, especially for the biomedical domain,
- **paraphrasing** and **textual entailment**, and their use in question answering and text summarization,
- **opinion mining**, including sentiment analysis,
- **natural language processing tools** for Greek, for example part-of-speech taggers, word sense disambiguation systems, and named-entity recognizers,
- **machine learning** in natural language processing.

## 3. STUDIES

**2006–11:** Department of Informatics, Athens University of Economics and Business, Greece. **PhD in Artificial Intelligence**. Thesis title: *Paraphrase and textual entailment recognition and generation*. Greek PENED Project Scholarship.

**2003–05:** Department of Informatics, Athens University of Economics and Business, Greece. **MSc in Computer Science**. Grade: 8.08/10. Dissertation title: *Part-of-speech tagging in Greek texts using active learning techniques*. Dissertation grade: 9.5/10 (excellent).

**1999–03:** Department of Informatics, Athens University of Economics and Business, Greece. **BSc in Informatics**, Computer Science theme. Grade: 7.10/10.

## 4. WORK EXPERIENCE

**2012-present: Research Associate**, Department of Informatics, Athens University of Economics and Business (AUEB).

**2014-2016: Research Associate**, Institute for Language and Speech Processing (ILSP), “Athena” Research Center.

**2014–15: Research Associate in the European LangTERRA project**, Institute for Language and Speech Processing (ILSP), “Athena” Research Center.

**2014–15: Post-doctoral Researcher in Action 2 of AUEB Research Support Program**, Department of Informatics, Athens University of Economics and Business (AUEB).

**2012–14: Research Assistant in the European BioASQ project**, Department of Informatics, Athens University of Economics and Business (AUEB).

**2011–12: Military service** (9 months), Hellenic Army. Specialty: Computer Programmer.

**2007–10: Research Assistant in the European INDIGO project**, Department of Informatics, Athens University of Economics and Business (AUEB).

## **5. TEACHING EXPERIENCE (as teaching assistant)**

### **5.1 Undergraduate courses**

- *Artificial Intelligence* (2008–09). Dept. of Informatics, AUEB.
- *Computer Programming in C++* (2005–06 to 2007–08) Dept. of Informatics, AUEB.
- *Logic* (2010–11). Dept. of Informatics, AUEB.
- *Programming Languages – Compilers* (2006–07). Dept. of Informatics, AUEB.

### **5.2 Postgraduate courses**

- *Logic and Artificial Intelligence* (2005–06 to 2010–11). Dept. of Informatics, AUEB.
- *Language Technology* (2013 – 14). Dept. of Informatics, AUEB.

## **6. PUBLICATIONS**

### **6.1 Journal articles**

**J2.** G. Tsatsaronis, G. Balikas, P. Malakasiotis, I. Partalas, M. Zschunke, M. R. Alvers, D. Weissenborn, A. Krithara, S. Petridis, D. Polychronopoulos, Y. Almirantis, J. Pavlopoulos, N. Baskiotis, P. Gallinari, T. Artières, A-C. Ngonga Ngomo, N. Heino, E. Gaussier, L. Barrio-Alvers, M. Schroeder, I. Androutsopoulos and G. Paliouras, “An overview of the BIOASQ large-scale biomedical semantic indexing and question answering competition”. *BMC Bioinformatics*, 16:138, 2015.

**J1.** I. Androutsopoulos and P. Malakasiotis, “A Survey of Paraphrasing and Textual Entailment Methods”. *Journal of Artificial Intelligence Research*, 38:135–187, 2010.

### **6.2 Conference articles**

**C16.** J. Pavlopoulos, P. Malakasiotis and I. Androutsopoulos, "Deeper Attention to Abusive User Content Moderation". Proceedings of the Conference on Empirical Methods in Natural Language Processing (EMNLP 2017), Copenhagen, Denmark, pp. 1136-1146, 2017.

**C15.** J. Pavlopoulos, P. Malakasiotis, J. Bakagianni and I. Androutsopoulos, "Improved Abusive Comment Moderation with User Embeddings". Proceedings of the workshop Natural Language Processing Meets Journalism, at the Conference on Empirical Methods in Natural Language Processing (EMNLP 2017), Copenhagen, Denmark, pp. 51-55, 2017.

**C14.** J. Pavlopoulos, P. Malakasiotis and I. Androutsopoulos, "Deep Learning for User Comment Moderation". Proceedings of the 1st Workshop on Abusive Language Online (ALW1), at the 55th Annual Meeting of the Association for Computational Linguistics (ACL 2017), Vancouver, Canada, pp. 25-35, 2017.

**C13.** G. Brokos, P. Malakasiotis and I. Androutsopoulos, "Using Centroids of Word Embeddings and Word Mover's Distance for Biomedical Document Retrieval in Question Answering". Proceedings of the 15th Workshop on Biomedical Natural Language Processing (BioNLP 2016), at the 54th Annual Meeting of the Association for Computational Linguistics (ACL 2016), Berlin, Germany, pp. 114-118, 2016.

**C12.** S. Giorgis, A. Rousas, J. Pavlopoulos, P. Malakasiotis and I. Androutsopoulos, "aueb.twitter.sentiment at SemEval-2016 Task 4: A Weighted Ensemble of SVMs for Twitter Sentiment Analysis". Proceedings of the 10th International Workshop on Semantic Evaluation (SemEval 2016), San Diego, CA, USA, pp. 96-99, 2016.

**C11.** D. Xenos, P. Theodorakakos, J. Pavlopoulos, P. Malakasiotis and I. Androutsopoulos, "AUEB-ABSA at SemEval-2016 Task 5: Supervised Machine Learning for Aspect Based Sentiment Analysis". Proceedings of the 10th International Workshop on Semantic Evaluation (SemEval 2016), San Diego, CA, USA, pp. 324-329, 2016.

**C10.** P. Malakasiotis, E. Archontakis, I. Androutsopoulos, D. Galanis and H. Papageorgiou, "Biomedical question-focused multi-document summarization: ILSP and AUEB at BioASQ3". Proceedings of Question Answering Lab at the Sixth Conference and Labs of the Evaluation Forum (CLEF 2015), Toulouse, France, 2015.

**C9.** R. M. Karampatsis, J. Pavlopoulos and P. Malakasiotis, "AUEB: Two Stage Sentiment Analysis of Social Network Messages". Proceedings of the Eighth International Workshop on Semantic Evaluation (SemEval 2014), Dublin, Ireland, pp. 114–118, 2014.

**C8.** A-C. Ngonga Ngomo, N. Heino, R. Speck and P. Malakasiotis, "A Tool Suite for Creating Question Answering Benchmarks". Proceedings of the *9th edition of the Language Resources and Evaluation Conference (LREC 2014)*, Reykjavik, Iceland, 2014.

**C7.** P. Malakasiotis, R. M. Karampatsis, K. Makrynioti and J. Pavlopoulos, "nlp.cs.aueb.gr: Two Stage Sentiment Analysis". *Second Joint Conference on Lexical and Computational Semantics (\*SEM), Volume 2: Proceedings of the Seventh International Workshop on Semantic Evaluation (SemEval 2013)*, Atlanta, Georgia, USA, pp. 96–106, 2013.

**C6.** P. Malakasiotis and I. Androutsopoulos, "A Generate and Rank Approach to Sentence Paraphrasing". Proceedings of the *Conference on Empirical Methods on Natural Language Processing (EMNLP 2011)*, Edinburgh, UK, pp. 96–106, 2011.

**C5.** P. Malakasiotis, "AUEB at TAC 2009". Proceedings of the *Text Analysis Conference (TAC 2009)*, Gaithersburg, Maryland, USA, 2009.

**C4.** P. Malakasiotis, "Paraphrase Recognition Using Machine Learning to Combine Similarity Measures". Proceedings of the *ACL-IJCNLP 2009 Student Research Workshop*, Suntec, Singapore, pp. 27–35, 2009.

**C3.** D. Galanis and P. Malakasiotis, "AUEB at TAC 2008". Proceedings of the *Text Analysis Conference (TAC 2008)*, Gaithersburg, Maryland, USA, 2008.

**C2.** P. Malakasiotis and I. Androutsopoulos, "Learning Textual Entailment using SVMs and String Similarity Measures". Proceedings of the *ACL-PASCAL Workshop on Textual*

*Entailment and Paraphrasing*, 45th Annual Meeting of the Association for Computational Linguistics (ACL 2007), Prague, Czech Republic, pp. 42–47, 2007.

C1. V. Lin, V. Vassalos and P. Malakasiotis, “MiniCount: Efficient Rewriting of COUNT-Queries Using Views”. Proceedings of the 22<sup>nd</sup> International Conference on Data Engineering (ICDE 2006), Atlanta, GA, USA, 2006.

### 6.3 System demonstrations at conferences

S1. S. Konstantopoulos, A. Tegos, D. Bilidas, I. Androutsopoulos, G. Lampouras, P. Malakasiotis, C. Matheson and O. Deroo, “Adaptive Natural Language Interaction”. System demonstration, 12<sup>th</sup> Conference of the European Chapter of the Association for Computational Linguistics (EACL 2009), Athens, Greece, 2009.

## 7. PARTICIPATION IN RESEARCH PROJECTS

“BioQA – Biomedical Question Answering”. Action 2 AUEB Research Support Program (2014-15).

“LangTERRA – Enhancing the Research Potential of ILSP/”Athena” R.C. in Language Technology in the European Research ERA”. European FP7 REGPOT project (2012–15).

“BioASQ – A Challenge on Large-Scale Biomedical Semantic Indexing and Question Answering”. European FP7 ICT project (2012–14).

“INDIGO – Interaction with Personality and Dialogue Enabled Robots”. European IST project (2007–10).

## 8. TECHNICAL SKILLS

### 8.1 Programming languages

- *Java* (excellent)
- *C++* (excellent)
- *C* (very good)
- *Python* (very good)

### 8.2 Operating systems

- *Windows* (excellent)
- *Linux* (very good)

### 8.3 Code repositories

- *GitHub* (very good)
- *BitBucket* (very good)
- *Assembla* (very good)

### 8.4 Web development

- *HTML* (very good)
- *CSS* (very good)
- *PHP* (very good)