

# CURRICULUM VITAE: Vangelis Karkaletsis

## Personal Information

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**Date of Birth:** 02 - 09 – 1966  
**Address:** Office: Institute of Informatics and Telecommunications,  
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## Education

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**1991 - 1995** University of Athens, Department of Computer Science  
**Ph.D. in Computer Science**  
Thesis title: "Terminological Knowledge Bases and their exploitation in Multilingual S/W applications "

**1989 - 1990** University of London, Queen Mary & Westfield College, Department of Computer Science  
**MSc in Advanced Methods in Computer Science**  
Thesis title: "Development of a natural language interface to a geographic data base"

**1984 - 1989** University of Patras, Department of Computer Engineering & Informatics  
**Diploma in Engineering**

## Work Experience

**2010-today** Adjunct Professor at the Department of Computer Science & Engineering, University of Texas at Arlington, USA

**2008-today** Responsible for the education issues of the Inst. of Informatics and Telecom., NCSR "Demokritos"  
Responsible for the joint education programs with foreign Universities (University of Texas at Arlington, University of Loughborough, University of North Texas, Houston University, University of Dalhousie, University of Alcalá)

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**2008-2013** Member of NCSR “Demokritos” Research Council

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**2003 – today** (full time) Head of the Software & Knowledge Engineering Laboratory (<http://skel.iit.demokritos.gr/>), Research Director (since 2007) at the Inst. of Informatics and Telecom., NCSR "Demokritos"

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**1999 – 2003** (full time) Researcher at the Inst. of Informatics and Telecom., NCSR "Demokritos"

**1999-today** (part time) Responsible for the organization and teaching of the University of Athens postgraduate courses on “Information Extraction” and “Natural Language Generation” in the postgraduate program “Tehnoglossia”

**1997-1999** (full time) Post-doctoral Fellow at the Inst. of Informatics and Telecom., NCSR "Demokritos"

**1996-1997** (full-time) Research Associate at the Inst. of Informatics and Telecom., NCSR "Demokritos"

**1993-1995** (part-time) Research Associate at the Inst. of Informatics and Telecom., NCSR "Demokritos"  
Freelance programmer

**1995-1996** (full time) Military service in the Greek Army, System administration and programming

**1990-1993** (full time) Research Associate, Institute of Informatics, Greek Productivity Center (ELKEPA)  
Freelance programmer

**1990-1998** (part time) Teaching in various computer science courses

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## Research Activities

- More than 2000 citations to my publications according to Google scholar.
- Invited speaker in academic and research institutions, in conferences and workshops.
- Tutorial speaker in international conferences
- Organised the International Research centered Summer School IRSS-2013 (<http://irss.iit.demokritos.gr/>)
- Chair of the 6th Hellenic Conference on Artificial Intelligence (SETN-10), Athens, May 4-7, 2010 (<http://www.setn2010.gr/>)
- Chair of the Organising Committee of the 12th Conference of the European Chapter of the Association for Computational Linguistics (EACL-2009), Athens, March 30 - April 3, 2009 (<http://www.eacl2009.gr/>)
- Co-editor of special issues in international scientific Journals and books
- Program committee member and member of the organizing committee of various International and National Conferences and Workshops
- Reviewer for various international journals, international conferences
- Vice chair (2006 -2008), Treasurer (2004-2006) of the Hellenic Association for Artificial Intelligence (EETN).
- Expert evaluator of research projects and project proposals for the European Commission and the Greek General Secretariat of Research and Technology.

## **Publications**

### EDITORIALS

1. V. Karkaletsis, M.A. Mayer, P. Karampiperis, (**Guest Editors Special Issue**) “**Semantic Descriptions of Medical Web Resources: Technologies to support their Creation, Maintenance and Access**” Health Informatics Journal (HIJ), June 2011, 17(2): 91-94.
2. S. Konstantopoulos, S. Perantonis, V. Karkaletsis, C.D. Spyropoulos, G. Vouros, (**Editors**) **Proceedings of 6<sup>th</sup> Hellenic Conference on Artificial Intelligence (SETN-2010) “Artificial Intelligence: Theories, Models and Applications”**, Springer LNAI 6040, Athens, 4-7 May 2010.
3. S. Guergana, G. Angelova, V. Karkaletsis, (**Editors**) **Proceedings of the Workshop “Biomedical Information Extraction”, Recent Advances on Natural Language Processing (RANLP 2009)**, September 18, 2009, Borovets, Bulgaria.
4. S. Konstantopoulos, V. Karkaletsis, C. Matheson, J. Oberlander, (**Editors**) **Proceedings of the International Workshop on Computational Aspects of Affective and Emotional Interaction (CAFFEi 08), 18<sup>th</sup> European Conference on Artificial Intelligence (ECAI 2008)**, July 21, 2008, Patras, Greece.
5. V. Karkaletsis, P. Karampiperis, M.A. Mayer, (**Editors**) **Proceedings of the 1<sup>st</sup> International Workshop on Describing Medical Web Resources (DrMed 2008), 21<sup>st</sup> International Congress of the European Federation for Medical Informatics (MIE 2008)**, May 27, 2008, Goteborg Sweden (<http://www.mediq.org/drmed2008>).
6. F. Makedon, V. Karkaletsis, and I. Maglogiannis, (**Guest Editors Special Issue**) “**Computational Analysis and Decision Support Systems in Oncology**”, International Journal of Oncology Reports, 2006, 15: 969-1108.
7. C.D. Spyropoulos and V. Karkaletsis, (**Guest Editors Special Issue**) “**Information Extraction and Summarization from Medical Documents**”, Artificial Intelligence in Medicine (AIM), Feb 2005, 33(2): 107-198.
8. S. Piperidis, V. Karkaletsis (**Editors**), **Proceedings of the Workshop on Balkan Language Resources and Tools**, 1<sup>st</sup> Balkan Conference on Informatics (BCI 2003), November, 2003.
9. G. Paliouras, V. Karkaletsis and C.D. Spyropoulos (**Editors**), **Machine Learning and Applications**, Lecture Notes in Computer Science (LNCS) no. 2049, Springer-Verlag, 2001.
10. C.D. Spyropoulos and V. Karkaletsis, (**Guest Editors Special Issue**), “**Artificial Intelligence and Software Multilinguality**”, Applied Artificial Intelligence (AAI) Journal, 1999, 13(6).

### SCIENTIFIC JOURNALS

1. S. Konstantopoulos and V. Karkaletsis, **System Personality and Adaptivity in Affective Human-Computer Interaction**. International Journal on Artificial Intelligence Tools, 22(2). April 2013
2. P. Karampiperis, G. Mouchakis, G. Paliouras, V. Karkaletsis, **ER Designer Toolkit: A Graphical Event Definition Authoring Tool**. Universal Access in the Information Society (UAIS), Special Issue on Cognitive Systems for Assistive Environments, v. 13 (1), 2013
3. V. Rentoumi, G. A. Vouros, V. Karkaletsis and A. Moser. **Investigating Metaphorical Language in Sentiment Analysis: A Sense-to-Sentiment Perspective**. ACM Transactions on Speech and Language Processing, Vol. 9, No. 3, Article 6, November 2012

4. S. Konstantopoulos, P. Archer, P. Karampiperis, V. Karkaletsis. **The POWDER Protocol as Infrastructure to Serving and Compressing Semantic Data**. *International Journal on Metadata, Semantics, and Ontologies*, vol. 7(1), pp. 1-15, Inderscience, 2012
5. M.A. Mayer, P. Karampiperis, A. Kukurikos, V. Karkaletsis, K. Stamatakis, D. Villarroel, and A. Leis. **Applying Semantic Web technologies to improve the retrieval, credibility and use of health-related web resources**. *Health Informatics Journal, Special Issue on "Semantic Descriptions of Medical Web Resources: Technologies to support their Creation, Maintenance and Access"*, 17(2): 95-115, 2011.
6. D. Vogiatzis, V. Karkaletsis. **A Cognitive Framework for Robot Guides in Art Collections**. *Universal Access in the Information Society Journal, Special Issue on "Pervasive Technologies and Assistive Environments: Social Impact, Financial, Government and Privacy Issues"*, 10(2): 179-193, 2011.
7. V. Spiliopoulos, G. Vouros, V. Karkaletsis. **On the discovery of subsumption relations for the alignment of ontologies**. *Journal of Web Semantics: Science, Services and Agents on the World Wide Web*, 8(1): 69-88, 2010.
8. 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**. *Journal of Logic and Computation*, 19 (5): 859-897, 2009.
9. G. Giannakopoulos, V. Karkaletsis, G. Vouros, P. Stamatopoulos, **Summarization System Evaluation Revisited: N-gram Graphs**, *ACM Transactions on Speech and Language Processing*, 5(3): 1-39, 2008.
10. S. Afantenos, V. Karkaletsis, P. Stamatopoulos, C. Halatsis, **"Using Synchronic and Diachronic Relations for Summarizing Multiple Documents describing Evolving Events"**, *Journal of Intelligent Information Systems (JIIS)*, Springer, 30 (3): 183-226, 2008.
11. I. Androutsopoulos, J. Oberlander, V. Karkaletsis, **"Source Authoring for Multilingual Generation of Personalised Object Descriptions"**, *Journal of Natural Language Engineering (JNLE)*, Cambridge University Press, 13 (3):191-233, 2007.
12. A. Valarakos, V. Karkaletsis, D. Alexopoulou, E. Papadimitriou, C.D. Spyropoulos, and G. Vouros. **"Building an Allergens Ontology and Maintaining it using Machine Learning Techniques"**. *Computers in Biology and Medicine Journal (CBM)*, 36 (10): 1155-1184, 2006.
13. M.A. Mayer, V. Karkaletsis, P. Archer, P. Ruiz, K. Stamatakis, A. Leis, **"Quality labelling of medical web content"**, *Health Informatics Journal*, 12 (1): 73-79, 2006.
14. S.D. Afantenos, V. Karkaletsis, and P. Stamatopoulos. **"Summarization from Medical Documents: A Survey"**. *Journal of Artificial Intelligence in Medicine (AIM)*, 33 (2): 157-177, 2005.
15. G. Petasis, G. Paliouras, V. Karkaletsis, C. Halatsis, and C.D. Spyropoulos, **"e-GRIDS: Computationally Efficient Grammatical Inference from Positive Examples,"** *GRAMMARS*, 7: 69-110, 2004.
16. G. Sakkis, I. Androutsopoulos, G. Paliouras, V. Karkaletsis, C.D. Spyropoulos and P. Stamatopoulos, **"A Memory-Based Approach to Anti-Spam Filtering for Mailing Lists,"** *Information Retrieval Journal*, 6(1): 49-73, 2003.
17. G. Paliouras, C. Papatheodorou, V. Karkaletsis and C.D. Spyropoulos, **"Discovering User Communities on the Internet Using Unsupervised Machine Learning Techniques,"** *Interacting with Computers*, 14 (6): 761-791, 2002.
18. 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*, 26(2): 123-135, 1999.
19. V. Karkaletsis, C.D. Spyropoulos, and G. Vouros, **"A Knowledge-Based Methodology for Supporting Multilingual and User-tailored Interfaces"**. *Interacting with Computers: The Interdisciplinary Journal of Human Computer Interaction*, 9: 311-333, 1998.
20. V. Karkaletsis, C.D. Spyropoulos, G. Vouros, and C. Halatsis. **"Organisation and Exploitation of Terminological Knowledge in Software Localisation"**. *TermNet News - Journal of the International Network for Terminology*, 48: 42-48, 1995.

### **BOOK CHAPTERS**

1. E. Iosif, G. Petasis and V. Karkaletsis. **"Ontology-Based Information Extraction under a Bootstrapping Approach."** *Semi-Automatic Ontology Development: Processes and Resources*. IGI Global, 2012. 1-21.
2. S. Konstantopoulos, V. Karkaletsis, D. Vogiatzis, and D. Bilidas, **"Authoring semantic and linguistic knowledge for the dynamic generation of personalized descriptions"**. In *"Language Technology for Cultural Heritage"*, Theory and Applications of Natural Language Processing, C. Sporleder et al. (eds), Part 4, 115-132, Springer, 2011.
3. V. Karkaletsis, P. Fragkou, G. Petasis and E. Iosif, **"Ontology Based Information Extraction from Text"**. In *Lecture Notes in Computer Science, Vol. 6050, Knowledge-Driven Multimedia Information Extraction and Ontology Evolution*, pp. 89-109, 2011.
4. G. Petasis, V. Karkaletsis, G. Paliouras, A. Krithara and E. Zavitsanos, **"Ontology Population and Enrichment: State of the Art"**, In *Lecture Notes in Computer Science, Vol. 6050, Knowledge-Driven Multimedia Information Extraction and Ontology Evolution*, pp. 134-166, 2011.

5. V. Karkaletsis, Stamatakis, K., Metsis, V., Labský, M., Růžička, M., Svátek, V., Cabrera, E. A., Pöllä, M., Mayer, M. A., Villaruel Gonzales, D., **“Mining and Management of Medical Web site Quality Labels”**. In *“Data Mining and Medical Knowledge Management: Cases and Applications”*, P. Berka, J. Rauch, D. Abdelkader Zighed (eds), IGI Global Inc., 2008.
6. V. Karkaletsis, C.D. Spyropoulos, **“An Open Platform for Collecting Domain Specific Web Pages and Extracting Information from them”**, In S. Symakessis (Ed.), *“Knowledge Mining”*, Studies in Fuzziness and Soft Computing”, Vol. 185, pp. 145-154, 2005.
7. D. Pierrakos, G. Paliouras, C. Papatheodorou, V. Karkaletsis, M. Dikaiakos, **“Web Community Directories: A New Approach to Web Personalization,”** In Berendt et al. (Eds.), *“Web Mining: From Web to Semantic Web”*, Lecture Notes in Computer Science, n. 3209, pp. 113 – 129, Springer Verlag, 2004.
8. G. Petasis, V. Karkaletsis, D. Farmakiotou, I. Androutsopoulos, and C.D. Spyropoulos. **“A Greek Morphological Lexicon and its Exploitation by Natural Language Processing Applications”**. Lecture Notes on Computer Science (LNCS), vol.2563, *“Advances in Informatics - Post-proceedings of the 8th Panhellenic Conference in Informatics”*. Vol. editors: Yannis Manolopoulos, Skevos Evripidou, Antonis Kakas, pp. 401-419, 2003.
9. 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, pp. 193-210, 2001.
10. V. Karkaletsis, Spyropoulos, C.D., and Petasis, G. **“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, 1999.
11. T. Honkela, Lehtola, A., Kalliomaki, S., Sutila, R., Hudson, R., Karkaletsis, V., and Vouros, G., 1997. **“A Recommended Globalization Method”**. In *“Software without frontiers”*, ed. by P.A.Hall and R.Hudson, J.Wileys&Sons, London, 1997 (ISBN 0 471 96974 5), pp. 33-50.
12. G. Vouros, Karkaletsis, V., and Spyropoulos, C.D., 1997. **“ Documentation and Translation”**. In *“Software without frontiers”*, ed. By P.A.Hall and R.Hudson, J.Wileys&Sons, London, 1997 (ISBN 0 471 96974 5), pp. 167-202.
13. V. Karkaletsis, Spyropoulos, C.D., Vouros, G., Honkela, T., Lagus, K., and Lehtola, A., 1997. **“Message Generation”**. In *“Software without frontiers”*, ed. By P.A.Hall and R.Hudson, J.Wileys & Sons, London, 1997 (ISBN 0 471 96974 5), pp. 203-218.
14. V. Karkaletsis, Spyropoulos, C.D., Vouros, G. **“The Use of Terminological Knowledge Bases in Software Localisation”**. In *Lecture Notes of Artificial Intelligence (LNAI)*, Springer-Verlag, no 898, pp. 175-188, 1995.

### CONFERENCE PROCEEDINGS

1. Y. Charalabidis, V. Karkaletsis, A.Triantafillou, A. Androutsopoulou and E. Loukis, **Requirements and Architecture of a Passive Crowdsourcing Environment**, e-Part 2013 conference, Koblenz, Germany, 17 - 19 September 2013.
2. G. Giannakopoulos, V. Karkaletsis, **“Together we stand NPower-ed”**, 14th International Conference on Intelligent Text Processing and Computational Linguistics, Karlovasi, Samos, Greece, 24/03/2013, LNCS Volume 7817, 2013, pp 436-450.
3. V. Karkaletsis, G. Potamianos, and S. Konstantopoulos, **“Embodiment and Audio-Visual Perception in Tele-Health Environments”**, Proceedings of the 6th International Conference on Pervasive Technologies Related to Assistive Environments, Rhodes island, Greece, 29/05/2013
4. A. Papangelis, V. Karkaletsis and F. Makedon, **“Evaluation of Online Dialogue Policy Learning Techniques”**, International Conference on Language Resources and Evaluation (LREC), 2012
5. A. Papangelis, N. Kouroupas, V. Karkaletsis and F.Makedon, **“An Adaptive Dialogue System With Online Dialogue Policy Learning”**, Hellenic Conference on Artificial Intelligence (SETN), pp. 323-330, 2012
6. A. Papangelis, G. Mouchakis, A. Boisselle, D. Kosmopoulos, V. Karkaletsis and F. Makedon, **“A Game System For Remote Rehabilitation Of Cerebral Palsy Patients”**, PETRA 2012
7. S. Konstantopoulos, V. Kordonis, N. Cancedda, V. Karkaletsis, D. Klakow and J. Renders, **“Task-Driven Linguistic Analysis based on an Underspecified Features Representation”**. In Proceedings of the Xth Conference on Language Resources and Evaluation (LREC 2012), Istanbul, Turkey, May 2012.
8. V. Karkaletsis, P. Karampiperis and S. Konstantopoulos, **“Social networks as a resource for policy formulation”**, In: Proc. of the Intersocial Workshop on Online Social Networks: Challenges and Perspectives (IWOSN), Patras, Greece, 15 June 2012
9. A. Artikis, P. D. Bamidis, V. Karkaletsis, S. Konstantopoulos, S. Petridis, C. S. Spyropoulos, et al., **“Supporting tele-health and AI-based clinical decision making with sensor data fusion and semantic interpretation: The USEFIL case study”**, In: Proceedings of the International Workshop on Artificial Intelligence and NetMedicine (NetMed 2012), held at ECAI 2012. Montpellier, France, 27 August 2012.

10. G. Giannakopoulos, V. Karkaletsis, G. Vouros, **“Detecting Human Features in Summaries - Symbol Sequence Statistical Normality”**, In: SETN 2012 Lamia, Greece.
11. M. Voudas, N. Pelekis, Y. Theodoridis, C. Ray, V. Karkaletsis, S. Petridis and A. Miliou, **“Big AIS Data Processing for Environmentally Safe Shipping”**, Workshop on Progress in Movement Analysis: Experiences with Real Data, 4 pages, 15-16 November 2012, Zurich, Switzerland
12. A. Koukourikos, P. Karampiperis, G. Vouros, and V. Karkaletsis, **“Using Open Information Extraction and Linked Open Data towards Ontology Enrichment and Alignment”**, in Proc. of the 5th International Workshop on Ontology, Models Conceptualization and Epistemology in Social, Artificial and Natural Systems (ONTOSE 2012), Gdansk, Poland, June 25-29, 2012
13. Y. Charalabidis, A. Triantafillou, V. Karkaletsis and E. Loukis, **“Public Policy Formulation through Non Moderated Crowdsourcing in Social Media”**. In Proceedings of the 4th IFIP WG 8.5 International Conference, ePart 2012, Kristiansand, Norway, September 3-5, 2012.
14. P. Karampiperis, G. Mouchakis, G. Paliouras, and V. Karkaletsis. **“ER Designer Toolkit: A Graphical Event Definition Authoring Tool”**, In Proceedings of PETRA-2011, Heraklio, Crete, May 2011.
15. G. Giannakopoulos and V. Karkaletsis. **“Summarization system evaluation variations based on n-gram graphs”**. In Proceedings of the Text Analysis Conference (TAC) 2010, Gaithersburg, MD, U.S.A, November 2010.
16. V. Rentoumi, S. Petrakis, M. Klenner, G.A. Vouros and V. Karkaletsis. **“United we Stand: Improving Sentiment Analysis by Joining Machine Learning and Rule Based Methods”**, In Proceedings of LREC 2010, May 2010.
17. V. Rentoumi, S. Petrakis, V. Karkaletsis, M. Klenner and G.A. Vouros, **“A Collaborative System for Sentiment Analysis”**, In Proceedings of the 6<sup>th</sup> Hellenic Conference on Artificial Intelligence (SETN-2010) “Artificial Intelligence: Theories, Models and Applications”, Springer LNAI 6040, 411-416, 2010.
18. V. Karkaletsis, S. Konstantopoulos, D. Bilidas and D. Vogiatzis, **“INDIGO project: personality and dialogue enabled cognitive robots”**, In Proceedings of the 3<sup>rd</sup> International Conference on Pervasive Technologies Related to Assistive Environments (PETRA 2010), Samos, Greece, June 2010.
19. G. Giannakopoulos, V. Karkaletsis. **N-gram graphs: Representing documents and document sets in summary system evaluation**. In *Proceedings of Text Analysis Conference TAC 2009*, November 16-17, 2009, Gaithersburg, Maryland, USA.
20. V. Rentoumi, G. Giannakopoulos, V. Karkaletsis, and G. Vouros. **Sentiment Analysis of Figurative Language using a Word Sense Disambiguation Approach**, In Proceedings of *RANLP 2009*, September 14-16, 2009, Borovets, Bulgaria
21. P. Archer, E. Ferrari, V. Karkaletsis, S. Konstantopoulos, A. Koukourikos, and A. Perego. **QUATRO Plus: Quality You Can Trust?** In: *Proc. Workshop on Trust and Privacy on the Social and Semantic Web (SPOT-09), 6th European Semantic Web Conference (ESWC-09), Heraklion, Crete, Greece, June 2009*. Proceedings published as vol. 447 of the CEUR Workshop Proceedings series.
22. G. Petasis, V. Karkaletsis, A. Krithara, G. Paliouras, and C.D. Spyropoulos. **Semi-automated ontology learning: the BOEMIE approach**. *International Workshop on Inductive Reasoning and Machine Learning on the Semantic Web (IRMLeS), European Semantic Web Conference (ESWC), June 2009*.
23. S. Konstantopoulos, V. Karkaletsis, D. Bilidas. **An intelligent authoring environment for abstract semantic representations of cultural object descriptions**. In: *Proc. EACL Workshop on Language Technology and Resources for Cultural Heritage, Social Sciences, Humanities, and Education (LaTeCH-SHELT&R-09)*, Athens, March 2009
24. G. Giannakopoulos, V. Karkaletsis, G. Vouros. **Summarization Evaluation under an N-gram Graph Perspective: In View of Combined Evaluation Measures**, *Text Analysis Conference (TAC) 2008*, Washington, U.S.A.
25. G. Petasis, V. Karkaletsis, G. Paliouras and C.D. Spyropoulos, **“Learning context-free grammars to extract relations from text”** In Proceedings of the the European Conference on Artificial Intelligence (ECAI) , IOS Press, pp. 303-307, Patras, Greece, July 2008.
26. D. Vogiatzis, C.D. Spyropoulos, S. Konstantopoulos, V. Karkaletsis, Z. Kasap, C. Matheson, and O. Deroo, **An Affective Robot Guide to Museums**. In: *Proc. 4th International Workshop on Human-Computer Conversation*, Bellagio, Italy, 6-7 October, 2008.
27. V. Karkaletsis, P. Karampiperis, K. Stamatakis, M. Labský, M. Ruzicka, V. Svátek, M.A. Mayer, A. Leis, D. Villarroel, **Automating Accreditation of Medical Web Content**. Proceedings of the 18th European Conference on Artificial Intelligence (ECAI-2008), Prestigious Applications of Intelligent Systems (PAIS), Patras, Greece, IOS Press, pp. 688-692.
28. S. Konstantopoulos, V. Karkaletsis, and C. Matheson, **Robot personality: Representation and externalization**. In: *Proc. International Workshop on Computational Aspects of Affective and Emotional Interaction (CAFFEI 08)*, Patras, Greece, July 21st, 2008.
29. G. Giannakopoulos, V. Karkaletsis, G. Vouros, **Testing the Use of N-gram Graphs in Summarization Sub-tasks**, Proceedings of Text Analysis Conference (TAC) 2008.

30. V. Rentoumi, V. Karkaletsis, G. Vouros, and A. Mozer, **Sentiment Analysis Exploring Metaphorical and Idiomatic Senses: A Word Sense Disambiguation Approach**. In: Proc. International Workshop on Computational Aspects of Affective and Emotional Interaction (CAFFEi 08), Patras, Greece, July 21st, 2008.
31. D. Vogiatzis, D. Galanis, V. Karkaletsis, I. Androutsopoulos, C.D. Spyropoulos, **A Conversant Robotic Guide to Art Collections**, Proceedings of LaTeCH-2008.
32. P. Fragkou, G. Petasis, A. Theodorakos, V. Karkaletsis, C.D. Spyropoulos, **BOEMIE ontology-based text annotation tool**, Proceedings of LREC-2008
33. G. Petasis, A. Theodorakos, P. Fragkou, V. Karkaletsis, **Segmenting HTML pages using visual and semantic information**, Proceedings of WAC-2008
34. D. Vogiatzis, V. Karkaletsis, **A Framework for Human-Robot Interaction**, Proceedings of PETRA-08
35. A. Tegos, V. Karkaletsis, A. Potamianos, **Learning of Semantic Relations between Ontology Concepts using Statistical Techniques**, Proceedings of HLIE-08
36. V. Spiliopoulos, A. Valarakos, G.A. Vouros, and V. Karkaletsis, **“Learning Subsumption Relations with CSR: A Classification-based Method for the Alignment of Ontologies”**, Proceedings of the *Second International Workshop on Ontology Matching (OM-2007)*, in the context of the 6<sup>th</sup> International Semantic Web Conference (ISWC-2007), November 11, 2007: BEXCO, Busan, Korea.
37. V. Spiliopoulos, G.A. Vouros, and V. Karkaletsis, **“Mapping Ontologies Elements using Features in a Latent Space”**, Proceedings of the *2007 IEEE/WIC/ACM International Conference on Web Intelligence (WI-2007)*, Silicon Valley, USA, November 2-5, 2007.
38. D. Bilidas, M. Theologou, V. Karkaletsis, **“Enriching OWL Ontologies with Linguistic and User-related Annotations: the ELEON system”**, Proceedings of the *IEEE International Conference on Tools with Artificial Intelligence (ICTAI-2007)*, Patras, Greece, October 29-31, 2007.
39. D.V. Gonzales, M.A. Mayer, A. Leis, V. Karkaletsis, K. Stamatakis, V. Metsis, P. Nasikas, M. Labský, M. Ruzicka, V. Svátek, F. López-Ostenero, V. Peinado, E.A. Cabrera, T. Honkela, M. Pöllä. **“AQUA (Assisting Quality Assessment): a system based on Semantic web and information extraction technologies to support medical quality labelling agencies”**, Proceedings of the *12<sup>th</sup> World Congress on the Internet in Medicine (Mednet 2007)*, Leipzig, Germany, October 7-10, 2007.
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### Participation in Research Projects

Projects in which I have the role of Project Manager, Scientific and/or Technical Manager are marked by "⇒"

- ⇒ **C2LEARN** (*Creative Emotional Reasoning Computational Tools Fostering Co-Creativity in Learning Processes*) EU ICT project (<http://www.c2learn.eu/>) (Start 2012). Consortium: Ellinogermaniki Agogi (coordinator) (Greece), The University of Edinburgh (UK), The Open University (UK), NCSR "Demokritos" (Greece), Universita ta Malta (Malta), Serious Games Interactive (Denmark), Bundesministerium für Unterricht, Kunst und Kultur (Germany). Project Budget: €3.129.828, NCSR "Demokritos" budget: €650.158.
- ⇒ **SEMAGROW** (*Data intensive techniques to boost the real-time performance of global agricultural data infrastructures*) EU ICT project (<http://www.semagrow.eu/>) (Start 2012). Consortium: Universidad de Alcala (coordinator), NCSR "Demokritos" (Greece), Universita degli Studi di Roma "Tor Vergata" (Italy), Semantic Web Company GmbH (Austria), Institut za Fiziku (Serbia), Stichting Dienst Landbouwkundig Onderzoek (The Netherlands), Food and Agriculture Organization of the United Nations (Italy), Agrow-Know Technologies (Greece). Project Budget: €3.146.747, NCSR "Demokritos" budget: €715.243.
- **PREPARE** (*Innovative integrative tools and platforms to be prepared for radiological emergencies and post-accident response in Europe*) EU FISSION project (Start 2013). Consortium: Karlsruher Institut fuer Technologie (coordinator) (Germany), NCSR "Demokritos" (Greece), and several other partners. Project Budget: €6.402.232,24, NCSR "Demokritos" budget: €290.000,00. **Task Leader.**

- **POSCON** (*Positive Online Content and Services for Children in Europe*) EU SAFER INTERNET thematic network project (Start 2012). Consortium: Landeszentrale für Medien und Kommunikation Rheinland-Pfalz,(coordinator) (Germany), and several other partners. **Network member.**
- **AMINESS** (*Analysis of marine information for environmentally safe shipping*) National project (Start 2013). Consortium: National Center for Scientific Research "Demokritos" (NCSR'D) (coordinator) (Greece), IMIS Hellas S.A (Greece), University of Aegean (Greece), University of Piraeus (Greece), DANAOS Management Consultants (Greece), Archipelagos, Institute of Marine Conservation (Greece), AEGEAN Speed Lines (Greece). Project Budget: €1.280.000,00, NCSR "Demokritos" budget: €300.000,00. **Workpackage leader.**
- **CLARIN-EL** (*CLARIN ATTIKI – Common Language resources and Technology infrastructure*) National project (<http://www.clarin.gr/>) (Start 2012). Consortium: "Athena" Research and Innovation Centre in Information, Communication and Knowledge Technologies (coordinator) (Greece), National Center for Scientific Research "Demokritos" (NCSR'D), Greek Research and Technology Network S.A. (Greece). Project Budget: €1.749.999,85, NCSR "Demokritos" budget: €199.766,71. **Scientific Manager for NCSR "Demokritos"**
- **USEFIL** (*Unobtrusive Smart Environments for Independent Living*) EU ICT project (<http://www.usefil.eu/>) (Start 2011). Consortium: NCSR "Demokritos" (*coordinator*) (Greece), Teknologian Tutkimuskeskus VTT (Finland), Universitaet Bremen (Germany), The University of Warwick (UK), Aristotle University of Thessaloniki (Greece), Fraunhofer-Heinrich Hertz Institute (Germany), TPVision (The Netherlands), Maccabi Healthcare Services (Israel). Project Budget: €4.628.906, NCSR "Demokritos" budget: €725.519. **Task Leader.**
- ⇒ **NOMAD** (*Policy Formulation and Validation through non moderated crowdsourcing*) EU ICT project (<http://www.nomad-project.eu/>) (Start 2011). Consortium: Athens Technology Center (*coordinator*) (Greece), Aegean University (Greece), Google Ireland (Ireland), Critical Publics (UK), NCSR "Demokritos" (Greece), Fraunhofer IGD (Germany), KantorQwentas SA (Belgium), Hellenic Parliament (Greece), Austrian Parliament (Austria). Project Budget: €3.413.702, NCSR "Demokritos" budget: €508.463.
- **CPS** (*A Novel Human Centric System to Improve Motor/Cognitive Assessment and Enable Adaptive Rehabilitation*) USA NSF project (Start 2010). Consortium: University of Texas at Arlington (USA) (*coordinator*), NCSR "Demokritos" (sub-contractor). Project Budget: \$1.500.000, NCSR "Demokritos" budget: \$60.000. **Scientific Manager for NCSR "Demokritos"**
- ⇒ **AVISPIRE** (*Audio-Visual Speech Processing for Interaction in Realistic Environments*) FP7 - Marie Curie (*International Reintegration Grants*) (Start 2009). NCSR "Demokritos" budget: €175.000.
- **INDIGO** (*Interaction with Personality and Dialogue Enabled Robots*) FP6-IST Cognitive Systems (Start 2007). Consortium: Foundation for Research & Technology – Hellas (FORTH) (coordinator) (Greece), University of Edinburgh (UEDIN) (United Kingdom), Albert-Ludwigs University of Freiburg (ALU-FR) (Germany), Athens University of Economics and Business-Research Center (AUEB-RC) (Greece), University of Geneva (UNIGE) (Switzerland), Neobotix / GPS (NEOGPS) (Germany), Acapela Group (ACAPELA) (Belgium), Hanson Robotics (Hanson) (United States), Foundation of Hellenic World (FHW) (Greece), National Centre for Scientific Research "Demokritos" (NCSR) (Greece). Project Budget: €2.080.000,00 NCSR "Demokritos" budget: €223.260,00. **Scientific Manager for NCSR "Demokritos"**
- **PRONTO** (*Event Recognition for Intelligent Resource Management*). EU ICT project (2009-2012). Consortium: Fraunhofer-Gesellschaft / IAIS (Germany) (*coordinator*), NCSR "Demokritos" (Greece), Fire Department Dortmund (Germany), University of Paderborn / CIK (Germany), Noldus Information Technology BV (Netherlands), WSP Finland Ltd (Finland) . Project Budget: €4.019.835, NCSR "Demokritos" budget: €711.530.
- **SYNC3** (*Synergetic Content Creation and Communication*). EU ICT project (2009-2012). Consortium: ATC ABETE (Greece) (*coordinator*), NCSR "Demokritos" (Greece), L3S Research Institute (Germany), University of Edinburgh (UK), Xerox Research Centre Europe (France), European Journalism Centre (Netherlands), i-sieve technologies ltd. (Greece), RIA Novosti (Russia), Google (UK). Project Budget: €3.100.000, NCSR "Demokritos" budget: €693.675.
- **CASAM** (*Computer-Aided Semantic Analysis of Multimedia*). EU IST project (2008-2011). Consortium: Intrasoft International (Luxembourg) (*coordinator*), NCSR "Demokritos" (Greece), Hamburg University of Technology (Germany), University of Birmingham (UK), ATC SA (Greece), Deutsche Welle (Germany),

Lusa: Agência de Notícias de Portugal (Portugal), European Journalism Centre (Netherlands). Project Budget: €4.240.000, NCSR "Demokritos" budget: €31.850.

- **CLARIN-EL-PREP** (*CLARIN-EL Preparatory phase*) National project (Start 2011). Consortium: "Athena" Research and Innovation Centre in Information, Communication and Knowledge Technologies, (coordinator) (Greece), National Center for Scientific Research "Demokritos" (NCSR'D), Greek Research and Technology Network S.A. (Greece), National Documentation Centre/ National Hellenic Research Foundation (Greece), Ionian University (Greece), National and Kapodistrian University of Athens (Greece), Centre for the Greek Language (Greece), University of the Aegean. Project Budget: €125.000,00 NCSR "Demokritos" budget: €7.875,00. **Scientific Manager for NCSR "Demokritos"**
- **BOEMIE** (*Bootstrapping Ontology Evolution with Multimedia Information Extraction*). EU IST project (2006-2009). Consortium: NCSR "Demokritos" (Greece) (*coordinator*), Fraunhofer-Gesellschaft / IMK (Germany), Milan University (Italy), Hamburg University of Technology (Germany), CERTH-ITI (Greece), Tele Atlas (The Netherlands). Project Budget: €4.927.189, NCSR "Demokritos" budget: €1.666.193. **Workpackage Leader.**
- ⇒ **QUATRO Plus** (*Content Labels for User Empowerment*) European Union's Safer Internet Plus/ eContent project (Start 2007). Consortium: Pira International (UK) (*coordinator*), National Center for Scientific Research "Demokritos" (NCSR'D) (Greece), FOSI (UK), PRO-SEC BV (Netherlands), Coolwave Limited (UK), IQUA (Spain), COMB (Spain), UNIMI (Italy), UNISUBRIA (Italy), Software602 (Czech Republic). Project Budget: €368.350,00 NCSR "Demokritos" budget: €200.521,00.
- ⇒ **MedIEQ** (*Quality Labelling of Medical Web content using Multilingual Information Extraction*). EU Public Health project (2006-2009). Consortium: NCSR "Demokritos" (Greece) (*coordinator*), Universidad Nacional de Educación a Distancia - UNED (Spain), Medical Association of Barcelona - COMB (Spain), Agency for Quality in Medicine – AQUMED (Germany), University of Economics in Prague (Czech Republic), Helsinki University of Technology (Finland), i-sieve Technologies Ltd. (Greece), Geneva University Hospitals (Switzerland). Project Budget: €1.290.098, NCSR "Demokritos" budget: €324.802.
- ⇒ **OntoSum** (*Ontology Management and Use to Support Summarization*). Greek PENED project (2005-2009). Consortium: NCSR "Demokritos" (*coordinator*), Aegean University, Exodus SA. Project Budget: €74.194, NCSR "Demokritos" budget: €15.696.
- **XENIOS** (*Human-robot interaction using speech processing, natural language generation, and computer vision*), National project (2006-2007), Consortium: ICS-FORTH (*coordinator*), Foundation of the Hellenic World, Athens University of Economics & Business, NCSR "Demokritos", Ereynites. Project Budget: €89.900, NCSR "Demokritos" budget: €3.500
- **QUATRO** (*Quality Assurance and Content Description*) EU Safer Internet Programme project (Start 2004). Consortium: MDR (UK) (*coordinator*), National Center for Scientific Research "Demokritos" (NCSR'D) (Greece), FOSI (UK), PRO-SEC BV (Netherlands), Coolwave Limited (UK), IQUA (Spain), COMB (Spain), UNIMI (Italy), UNISUBRIA (Italy), Software602 (Czech Republic). Project Budget: €738.313,00 NCSR "Demokritos" budget: €18.519,00. **Workpackage leader.**
- **SIFT** (*Solution for Internet Combined Filtering*). EU IST project (2002-2003). Consortium: RED EDUCATIVA S.A. (Spain) (*coordinator*), Internet Content Rating Association (G. Britain), Project Budget: €900.000, NCSR "Demokritos" budget: €284.948.
- **SCOFI** (*Filtering the Internet by use of a Smart card*) EU IAP project (Start 2001). Project Budget: €1052079 NCSR "Demokritos" budget: €259.476,00
- ⇒ **CROSSMARC** (*Cross-lingual Multi-agent Retail Comparison*). EU IST project (2001-2003). Consortium: NCSR "Demokritos" (Greece) (*coordinator*), Edinburgh University (G. Britain), University Tor Vergata (Italy), VeltiNet SA (Greece), Informatique CDC (France), Internet Commerce Network (France). Project Budget: €2.625.551, NCSR "Demokritos" budget: €847.264.
- ⇒ **Web-C-Mine** (*Discovery of Web Usage from Cache Proxy Access Logs*). Bilateral Cooperation Greece - Cyprus (2001-2003). Consortium: NCSR "Demokritos" (Greece), University of Cyprus, Intercollege (Cyprus). Project Budget: €3.782, NCSR "Demokritos" budget: €3.782.

- **M-PIRO** (*Multi-lingual Personalised Information Objects*). EU IST project (2000-2003). Consortium: Edinburgh University (G. Britain) (*coordinator*), ITC-IRST (Italy), NCSR "Demokritos" (Greece), Athens University, Foundation of the Hellenic World (Greece), System Simulation Ltd. (G. Britain). Project Budget: €1.903.013, NCSR "Demokritos" budget: €526.742.
- **SCHEMATOPOIESIS** (*Integrated environment for the development and exploitation of Greek controlled languages*). National project (1999-2001). Consortium: Institute for Language & Speech Processing (*coordinator*), National Technical University of Athens, NCSR "Demokritos", ... **Tasks Leader**.
- ⇒ **ADIET** (*Adaptive Information Extraction Technology*). Bilateral Cooperation Project Greece - France (1999-2001). Consortium: NCSR "Demokritos" (Greece), Informatique CDC (Groupe Caisse des Depots et Consignations) (France), Kalofolias SA (Greece). Project Budget: €34.923, NCSR "Demokritos" budget: €1.592.
- ⇒ **ANET** (*Adaptive Named-Entity Recognition Technology*). Bilateral Cooperation Project Greece - Italy (1999-2001). Consortium: NCSR "Demokritos", University της Ancona (Italy), University of Rome "La Sapienza" (Italy). Project Budget: €12.020, NCSR "Demokritos" budget: €12.020.
- ⇒ **MITOS** (*Information retrieval and Knowledge Discovery System – Case Study Financial News*). Greek EPET project (1999-2001). Consortium: NCSR "Demokritos" (*coordinator*), Athens University of Economics and Business, University of Piraeus, University of Patras, KnowledgeSA, Sena SA., Kalofolias SA. Project Budget: €68.452, NCSR "Demokritos" budget: €79.102.
- **AUTONOMA** (*Automatic Extraction of Grammar Rules for Named Entity Recognition in Greek Texts*). Greek EPET project (1999-2001). Consortium: Software and Knowledge Engineering & Neural Network Labs of the Institute of Informatics and Telecommunications of NCSR "Demokritos". Project Budget: €14.673, NCSR "Demokritos" budget: €14.673.
- **KOINOTITES** (*Automatic Discovery of User Communities in Digital Libraries*). Internal DEMOEREUNA Project (1999-2001). Consortium: Institute of Informatics and Telecommunications, Institute of Physical Chemistry and the Library of NCSR "Demokritos". NCSR "Demokritos" budget: €3.522.
- **ECRAN** (*Extraction of Content: research at near-market*). EU Language Engineering project (1995-1999). Consortium: Thomson-CSF (France) (*coordinator*), University of Ancona (Italy), University of Rome "Tor Vergata" (Italy), Smart Information Services GmbH (Germany), NCSR "Demokritos" (Greece), University Friburg (Switzerland), Sheffield University (G. Britain). NCSR "Demokritos" budget: €327.300. **Task leader**.
- ⇒ **GIE** (*Greek Information Extraction*). Bilateral Cooperation Project Greece – G. Britain (1997-1999). Consortium: NCSR "Demokritos" (Greece), Sheffield University (G. Britain).