

CURRICULUM VITAE

Surname	KARANIKOLAS
Name	NIKITAS
Father's Name	NIKOLAOS
Place and Date of Birth	ATHENS, JANUARY 14, 1966
Nationality	GREEK
Military Services	FULFILLED
nnk@teiath.gr	

SECONDARY EDUCATION

Gymnasium of Helioupolis 1977 - 1980
Senior high school Maritime Lyceum PROTEAS 1980 - 1983

BACHELOR'S DEGREE

Athens University of Economics and Business (AUEB) 1984 - 1988

Department	Statistics and Informatics
Specialization	Informatics
Grade	7.96

POSTGRADUATE STUDIES

Philosophy Doctor (1994):
Athens University of Economics and Business (AUEB)
Department Applied Informatics
Subject Natural Language Understanding
Title «Technological and Linguistic approaches in Natural Language Understanding»
Grade Excellent

LANGUAGES

English

EMPLOYMENT

1987 until 10/1997	Freelancer in the field of Informatics' Services.
12/1988 until μέχρι 11/93	Ph.D. candidate with fellowship, Athens University of Economics and Business.
10/1993 until 5/1995	General partner in the General Partnership "N. Karanikolas - S. Mantzaris", a software development and support house.
11/1996 until 10/1997	System's Head of TEI-Athens' Library.
10/1997 until 17/11/2004	System's Head, Department of Informatics, Areteion University Hospital.
18/11/2004 until 7/10/2010	Assistant Professor, TEI of Athens.

EMPLOYMENT (continue)

7/9/2010 (election)	Assistant Professor, TEI of Athens.
8/10/2010 (official assignation)	
10/9/2014 (election)	Professor, TEI of Athens.
24/12/2014 (official assignation)	
2/3/2018 (foundation)	Professor, University of West Attica
22/8/2018 (official assignation)	

SCHOLASHIPS

Erasmus Scholarship (1991) for six (6) months research in London School of Economics.

PARTNERSHIPS IN ASSOCIATIONS

- Member of the Board of Directors – Greek Computer Society (G.C.S., E.Π.Y.), 2004 – 2006
- Secretary General of the Board of Directors – Greek Computer Society (G.C.S., E.Π.Y.), 2006 – 2008
- Aforetime President of the Board of Directors – Association of Graduates from the department of Informatics of Athens University of Economics and Business (Σ.Π.Ο.Π.Α.).
- Aforetime Vice President of the Board of Directors – Pan-Hellenic Confederation of Informatics Graduates Associations (Π.Ο.Ε.Σ.Π.).

OTHER INTERESTS

- Smithery, Machinist's craftsmanship and electromechanical constructions
- Agriculture, Green Energy

SCIENTIFIC WORK

A. Journals:

1. **Nikitas N. Karanikolas.** *Pronominal and Anaphor Resolution.* Computing and Information Technology (CIT) journal, volume 1, No 3, 1993.
2. **N. Karanikolas** and C. Skourlas. *Computed Assisted Information Resources Navigation.* Medical Informatics and the Internet in Medicine, volume 25, No 2, 2000.
3. **Nikitas Karanikolas** and C. Skourlas. *Interconnection of Laboratory Information System and Hospital Information System. The case of ARETEION University Hospital.* WSEAS Transactions on Systems, ISSN 1109-2777, volume 2, No 4, 2003.
4. **Nikitas Karanikolas** and C. Skourlas. *Text Classification: Forming Candidate Key-Phrases from Existing Shorter Ones.* FACTA UNIVERSITATIS Series: Electronics and Energetics, ISSN 0353-3670, volume 19, No 3, 2006.
5. **Nikitas N. Karanikolas.** *Low cost, cross-language and cross-platform Information Retrieval and Documentation tools.* Journal of Computing and Information Technology (CIT), ISSN: 1330-1136, volume 15, No 1, 2007.
6. **Nikitas N. Karanikolas,** Maria Nitsiou, Emmanuel J. Yannakoudakis and Christos Skourlas. *CUDL language semantics: updating FDB data,* Journal of Systems and Software 82 (6) 947-962, doi:10.1016/j.jss.2008.12.031.
7. **Nikitas N. Karanikolas.** *CUDL language semantics: Conditions,* Journal of Digital Information Management, Vol. 7, No. 4, August 2009.
8. **N. Karanikolas** and C. Skourlas. *A parametric methodology for text classification,* Journal of Information Science, Vol. 34 (6), pp. 421-442, 2010, doi:10.1177/0165551510368620.
9. **Nikitas N. Karanikolas** and Michael Gr. Vassilakopoulos. *Database Design Revisited,* International Journal on Integrated Information Management, Vol. 1 (1), pp. 48-67, 2012, doi:10.15556/IJIM.01.01.005
10. **Nikitas N. Karanikolas.** *A methodology for building simple but robust stemmers without language knowledge: Stemmer configuration,* Procedia, Social and Behavioral Sciences, vol. 147, pp. 370-375, 2014, doi:10.1016/j.sbspro.2014.07.113.
11. **Nikitas N. Karanikolas,** *Knowledge and Information in Nutrition Software design,* Procedia, Social and Behavioral Sciences, vol. 147, pp. 398-404, doi: 10.1016/j.sbspro.2014.07.118.
12. Eleni Galiotou, **Nikitas N. Karanikolas,** Ioanna Manolessou, Nikolaos Pantelidis, Dimitris Papazachariou, Angela Ralli, George Xydopoulos, *Asia Minor Greek: Towards a Computational Processing,* Procedia, Social and Behavioral Sciences, vol. 147, pp. 458-466, doi: 10.1016/j.sbspro.2014.07.138.
13. **Nikitas N. Karanikolas,** *Supervised learning for building stemmers.* Journal of Information Science, Vol. 41 (3), pp. 315-328, 2015, doi:10.1177/0165551515572528.
14. **Nikitas N. Karanikolas** and Michael Gr. Vassilakopoulos. *Comparison of Post-Relational and Object-Relational Modeling for Real World Database Applications.* Journal of Systems and Information Technology, vol:16, iss:4, 2014, doi:10.1108/JSIT-05-2014-0034.
15. **Nikitas N. Karanikolas** and Christos Skourlas, *Personal Digital Libraries: a self-archiving approach.* Library Review, vol:63, iss:6/7, 2014, doi:10.1108/LR-06-2014-0073.
16. **Nikitas N. Karanikolas** and Eleni Galiotou. *Multi-dialectal lexicon building: lessons learned.* Infotheca - Journal for Digital Humanities, vol:17, no:1, May 2017. doi:10.18485/infotheca.2017.17.1.1.

B. Conferences with international participation, periodicity that publishes full papers:

1. **Nikitas N. Karanikolas.** *A Meta-Translator for a Logic Grammar that handles Constituent Missing.* EURISCON'91: The European Robotics and Intelligent Systems conference, June 1991, Corfu, Greece. In S. Tzafestas (ed.) *Engineering Systems with Intelligence*, Kluwer Academic Publishers, ISBN 0-7923-1500-6.
2. **Nikitas N. Karanikolas** and Spyros L. Mantzaris. *Innovative Directions in Information Retrieval.* HERMIS'92: Hellenic research on Mathematics and Informatics, September 1992, Athens, Greece. In E. A. Lipitakis (ed.) *Proceedings of the 1st Hellenic Conference on Mathematics and Informatics*, ISBN 1105-9737.
3. Triga Panayota and **Nikitas Karanikolas.** *Comparing results of teaching Mathematical concepts by using computers in Multimedia and non-Multimedia environments.* HERMIS'94: Hellenic research on Mathematics and Informatics, September 1994, Athens, Greece. In E. A. Lipitakis (ed.) *Proceedings of the 2nd Hellenic-European Conference on Mathematics and Informatics*, ISBN 1105-9737.
4. **N. Karanikolas** and C. Skourlas. *Automatic Diagnosis Classification of patient discharge letters.* MIE 2002: XVIIth International Congress of the European Federation for Medical Informatics, August 25-29, 2002, Budapest, Hungary. In *Health Technology and Informatics, volume 90, Health Data in the Information Society, Proceedings of MIE2002*, IOS Press, ISBN 1-58603-279-8, ISSN 0926-9630.
5. **N. Karanikolas** and C. Skourlas. *Shifting from legacy systems to a Data Mart and Computer Assisted Information Resources Navigation framework.* ICEIS 2003: 5th International Conference On Enterprise Information Systems, April 23-26, 2003, Angers, France. Proceedings of the conference, ISBN 972-98816-1a-8.
6. **N. Karanikolas**, D. Kannas and E. Gamaletsos. *Information Systems with Algorithmically implemented Medical Protocols.* MEDINF 2003. 1st International Conference on Medical Informatics & Engineering, October 9 - 11, 2003, Craiova, Romania. Craiova Medical Journal, volume 5, supplement 3, ISSN 1454-6876.
7. **N. Karanikolas**, C. Skourlas, A. Christopoulou and T. Alevizos. *Medical Text Classification based on Text Retrieval techniques.* MEDINF 2003. 1st International Conference on Medical Informatics & Engineering, October 9 - 11, 2003, Craiova, Romania. Craiova Medical Journal, volume 5, supplement 3, ISSN 1454-6876.
8. **N. Karanikolas** and C. Skourlas. *Key-Phrase Extraction for Classification.* MEDICON and HEALTH TELEMATICS 2004. X Mediterranean Conference on Medical and Biological Engineering, 31 July - 5 August, 2004, Ischia, Italy. In *IFMBE Proceedings, Health in the Information Society*, volume 6, ISBN 88-7080308-8, ISSN 1727-1983.
9. **N. Karanikolas** and C. Skourlas. *Naive Rule Induction for Text Classification based on Key-Phrases.* DATA MINING 2005. 6th International Conference on Data Mining, Text Mining and their Business Applications, 25 - 27 May, 2005, Skiathos, Greece. In *WIT Transactions on Information and Communication Technologies, volume 35, Data Mining VI: Data Mining, Text Mining and their Business Applications*, WIT Press, ISBN 1-84564-017-9, ISSN 1764-4463.
10. **Nikitas N. Karanikolas**, Christos Skourlas and John Bratos. *Extraction of Training Sets for Experimentation with Cross Language Information Retrieval Systems.* International Conference Automatics and Informatics'06, October 3 - 6, 2006, Sofia, Bulgaria.
11. Yannakoudakis E. J., Nitsiou M., Skourlas C. and **Karanikolas N. N.** *Tarski algebraic operations on the frame database model (FDB).* PCI'2007. 11th Panhellenic Conference in Informatics, May 18-20, 2007, Patras, Greece.

12. Constantinos J. Marinakis and **Nikitas N. Karanikolas**. *Strengthening the Security of E-Banking Transactions. The case of NBG*. PCI'2007. 11th Panhellenic Conference in Informatics, May 18-20, 2007, Patras, Greece.
13. Konstantinos C. Athanasakos, Anastasios D. Doulamis and **Nikitas N. Karanikolas**. *A Signature Tree Content-based Image Retrieval System*. 3IA'2007. 10th International Conference on Computer Graphics and Artificial Intelligence, May 30-31, 2007, Athens, Greece.
14. **Nikitas N. Karanikolas**, Maria Nitsiou, Emmanuel J. Yannakoudakis and Christos Skourlas. *CUDL Language Semantics, Liven Up the FDB Data Model*. ADBIS'2007. 11th East-European Conference on Advances in Databases and Information Systems, September 29 - October 03, 2007, Varna, Bulgaria.
15. **Nikitas N. Karanikolas** and George Pentaris, *Secure E-Banking in Greece*. BCI'07. 3rd Balkan Conference in Informatics, September 27-29, 2007, Sofia, Bulgaria.
16. **Nikitas N. Karanikolas**. *The measurement of similarity in stock data documents collections*. eRA-2. 2nd Conference for the contribution of Information Technology to Science, Economy, Society and Education, September 22-23, 2007, Athens, Greece.
17. **Nikitas N. Karanikolas**, Maria Nitsiou, Emmanuel J. Yannakoudakis and Christos Skourlas. *Conceptual Universal Database Language (CUDL) and Enterprise Medical Information Systems*, ICEIS 2008: 10th International Conference On Enterprise Information Systems, June 12-16, 2008, Barcelona Spain.
18. **Nikitas N. Karanikolas**, Maria Nitsiou and Emmanuel J. Yannakoudakis, *CUDL Language Semantics: Authority links*, 12th East-European Conference on Advances in Databases and Information Systems, September 5-9, 2008, Pori, Finland.
19. **Nikitas N. Karanikolas**, *Conceptual Universal Database Language: Literature Review and the Future of Database Design*, EATIS'09, June 3–5, 2009, Prague, CZ, ACM Digital Library.
20. **Karanikolas, N. N.**, Vassilakopoulos, M. Gr (2009). *Conceptual Universal Database Language: Moving Up the Database Design levels*. In *Thirteen East-European Conference on Advances in Databases and Information Systems (ADBIS 2009)*, September 7-10, 2009, Riga, Latvia, Springer LNCS 5739, ISSN 0302-9743, ISBN 978-3-642-03972-0.
21. **Nikitas N. Karanikolas**, *Bootstrapping the Albanian Information Retrieval*, 4th Balkan Conference in Informatics, September 17-19, 2009, Thessalonica, Greece, IEEE Computer Society's Conference Publishing Services and IEEE Xplore.
22. **Nikitas N. Karanikolas**. *The role of phrases in Information Retrieval and related domains*. eRA-4. 4th Conference for the contribution of Information Technology to Science, Economy, Society and Education, September 25-26, 2009, Spetses, Greece.
23. **Nikitas N. Karanikolas**, *Computer Assisted Assessment (CAA) of Free-Text: Literature Review and the specification of an alternative CAA system*. In 19th IEEE International Workshops on Enabling Technologies: Infrastructures for Collaborative Enterprises (WETICE 2010), June 28-30, 2010, Larissa, Greece, IEEE Xplore.
24. **Nikitas N. Karanikolas** and Michael Gr. Vassilakopoulos, *Database Design with Real-World Structures*. eRA-5. 5th Conference for the contribution of Information Technology to Science, Economy, Society and Education, September 15-18, 2010, Piraeus, Greece.
25. Rebecca Siafaka and **Nikitas N. Karanikolas**, *Improvements in the Name-Your-Price Dynamic Pricing Model*. eRA-5. 5th Conference for the contribution of Information

- Technology to Science, Economy, Society and Education, September 15-18, 2010, Piraeus, Greece.
26. Michael Vassilakopoulos, Antonio Corral and **Nikitas N. Karanikolas**, Join-Queries between Two Spatial Datasets Indexed by a Single R*-Tree. In *37th International Conference on Current Trends in Theory and Practice of Computer Science (SOFSEM 2011)*, January 22-28, 2011, Nový Smokovec, Slovakia, Springer LNCS 6543, ISSN 0302-9743, ISBN 978-3-642-18380-5.
 27. Stefanos Kougioumtzis, **Nikitas N. Karanikolas** and Themis Panayiotopoulos, *Augmented reality environments for immersive and non linear virtual storytelling*. 3IA'2011. 14th International Conference on Computer Graphics and Artificial Intelligence, May 27-28, 2011, Athens, Greece.
 28. **Nikitas N. Karanikolas** and Michael Gr. Vassilakopoulos, *Assessment of language skills weaknesses and their confrontation through personalized e-lessons*. CompSysTech '11: 12th International Conference on Computer Systems and Technologies, June 2011, Vienna, Austria. ACM ICPS vol. 578. ISBN: 978-1-4503-0917-2. doi: 10.1145/2023607.2023688
 29. **Nikitas N. Karanikolas**, *Search Culture*. PCI'2011: 15th Panhellenic Conference on Informatics, 30 September – 2 October 2011, Kastoria, Greece. IEEE CPS. ISBN: 978-0-7695-4389-5
 30. **Nikitas N. Karanikolas** and Christos Skourlas, *Exploiting the Search Culture modulated by the Documentation Retrieval applications*. IC-ININFO: International Conference on Integrated Information, September 29 – October 3, 2011, island of Kos, Greece.
 31. **Nikitas N. Karanikolas**, Michael Vassilakopoulos and Nektarios Giannoulis, *A Software Tool for Building a Statistical Prefix Processor*. BCI 2012: 5th Balkan Conference in Informatics, September 16-20, 2012, Novi Sad, Serbia, ACM Digital Library.
 32. **Nikitas N. Karanikolas**, Anastasia Tritaki and Oleg Karavasileiadis, *Advanced Database design and Modern Web technologies used in Nutrition Software design*. PCI'2012: 16th Panhellenic Conference on Informatics, October 5-7, 2012, Piraeus, Greece. IEEE CPS.
 33. **Nikitas N. Karanikolas**, Eleni Galiotou and Christodoulos Tsoulloftas, *A workbench for extractive summarizing methods*. PCI'2012: 16th Panhellenic Conference on Informatics, October 5-7, 2012, Piraeus, Greece. IEEE CPS.
 34. **Nikitas N. Karanikolas**, *A methodology for building simple but robust stemmers without language knowledge: Overview, data model and ranking algorithm*. CompSysTech'2013: 14th International Conference on Computer Systems and Technologies, June 2013, Ruse, Bulgaria. ACM ICPS, doi:10.1145/2516775.2516783.
 35. **Nikitas N. Karanikolas**, Eleni Galiotou, George J. Xydopoulos, Angela Ralli, Konstantinos Athanasakos, and George Koronakis, *Structuring a Multimedia Tri-dialectal Dictionary*. TSD'2013: Text, Speech and Dialogue, 16th International Conference, September 1-5, 2013, Pilsen, Czech Republic. Springer, LNAI 8082, doi:10.1007/978-3-642-40585-3_64.
 36. Eleni Galiotou, **Nikitas N. Karanikolas** and Christodoulos Tsoulloftas, *On the Effect of Stemming Algorithms on Extractive Summarization: A Case Study*. PCI'2013: 17th Panhellenic Conference on Informatics, September 19-21, 2013, Thessaloniki, Greece. ACM ICPS, doi:10.1145/2491845.2491889.
 37. **Nikitas N. Karanikolas**, Eleni Galiotou and Angela Ralli, *Towards a Unified Exploitation of Electronic Dialectal Corpora: Problems and Perspectives*. TSD'2014: Text, Speech and Dialogue, 17th International Conference, September 8–12, 2014, Brno, Czech Republic. Springer, LNAI 8655, pp. 257-266, doi:10.1007/978-3-319-10816-2_32.

38. **Nikitas N. Karanikolas** and Panagiotis Ouranos, *Uncovering Languages from written documents*. PCI'2014: 18th Panhellenic Conference on Informatics, October 2-4, 2014, Athens, Greece. ACM ICPS, doi:10.1145/2645791.2645795.
39. (in Greek) Αθανάσιος Καρασίμος, Ελένη Γαλιώτου, **Νικήτας Καρανικόλας**, Γιώργος Κορωνάκης, Κώστας Αθανασάκος, Δημήτρης Παπαζαχαρίου και Αγγελική Ράλλη, *Προκλήσεις επισημείωσης ενός πολύ-διαλεκτικού, πολύ-επίπεδου σώματος γραπτών και προφορικών κειμένων των Νεοελληνικών Διαλέκτων*. Proceedings of the 6th International Conference on Modern Greek Dialects and Linguistic Theory (MGDLT6), 25-28 Sept. 2014, Patras, Greece. Series ISSN: 1792-3743.
40. Dimitris Vassis, Argyro Kampouraki, Petros Belsis, Vassilis Zafeiris, Nikolaos Vassilas, Eleni Galiotou, **Nikitas Karanikolas**, Kostas Fragos, Vassilis Kaburlasos, Stelios Papadakis, Vassilis Tsoukalas, Christos Skourlas, "Using Neural Networks and SVMs for Automatic Medical Diagnosis: A Comprehensive Review". 4th IC-ININFO, September 5-8, 2014, Madrid, Spain.
41. **Nikitas N. Karanikolas**, "Summarization as the base for Text Assessment". 4th IC-ININFO, September 5-8, 2014, Madrid, Spain.
42. (in Greek) Ελεονώρα Δημελά, Δήμητρα Μελισσαροπούλου, Γιώργος Ι. Ξυδόπουλος, Χρήστος Παπαναγιώτου, Ελένη Γαλιώτου, **Νικήτας Καρανικόλας** και Αγγελική Ράλλη, *Υλοποιώντας τη μικροδομή του πρώτου πολυ-μεσικού τρι-διαλεκτικού διαδικτυακού λεξικού: αποφάσεις και πρακτικές*. Proceedings of the 6th International Conference on Modern Greek Dialects and Linguistic Theory (MGDLT6), 25-28 Sept. 2014, Patras, Greece. Series ISSN: 1792-3743.
43. Christos Skourlas, Anastasios Tsolakidis, Eleni Galiotou, **Nikitas N. Karanikolas**, Petros Belsis, Dimitris Vassis, Argyro Kampouraki, "Retrieval and Dissemination of Information in Distributed and Wireless Environments". 5th IC-ININFO, September 21-24, 2015 Mykonos Island, Greece.
44. **Nikitas N. Karanikolas**, Eleni Galiotou, Dimitris Papazachariou, Konstantinos Athanasakos, George Koronakis and Angela Ralli, "Towards a computational processing of oral dialectal data". PCI 2015, October 01 - 03, 2015, Athens, Greece. ACM 978-1-4503-3551-5, doi:10.1145/2801948.2801966.
45. **Nikitas N. Karanikolas**, "Building Stemmers for the Polish Language". PCI 2016, November 10 - 12, 2016, Patras, Greece. doi:10.1145/3003733.3003792.
46. **Nikitas N. Karanikolas**, "Extractive summarization methods – subtitles and method combinations". RTA-CSIT 2016, November 18 - 19, 2016, Tirana, Albania.
47. **Nikitas N. Karanikolas and Antonios Liaramantzas**, "Affiance Computer Science and Machining Technology for cheap and efficient Solar Energy". PCI 2017, September 28 - 30, 2017, Larissa, Greece. doi:10.1145/3139367.3139445.
48. Galiotou E., **Karanikolas N.**, Ralli A., "Preservation and Management of Greek Dialectal Data", 2018. Lecture Notes in Computer Science (LNCS), volume 11196, pp. 752-761.
49. **Nikitas N. Karanikolas**, Antonios Liaramantzas and Theodorakopoulos Leonidas, "Cheap and efficient solar energy: Software and electronics". PCI 2018, November 2018, Athens, Greece. ACM ICPS, ISBN: 978-1-4503-6610-6, pp. 139-143.
50. **Nikitas N. Karanikolas**, "Machine learning of phonetic transcription rules for Greek". ICNAAM 2018, September 2018, Rhodes, Greece. AIP Conference Proceedings, vol. 2116, ISBN: 978-0-7354-1854-7.
51. Krikos, G.A., **Karanikolas, N.N.**, Miaoulis, G. and Voulodimos, A., "Greek language object representation scene system: A text interface for designing X3D objects and X3D scenes", 2019. PCI 2019, November 2019, Nicosia, Cyprus. ACM ICPS, pp. 164-167.

52. Ioannis G. Chaidoulis and **Nikitas N. Karanikolas**. *A review of microprocessor based solar photovoltaic tracking systems*. In 24th Pan-Hellenic Conference on Informatics (PCI 2020), November 20–22, 2020, Athens, Greece. ACM, New York, NY, USA, 82-86. DOI: <https://doi.org/10.1145/3437120.3437280>
53. Nikoletta E. Samaridi, **Nikitas N. Karanikolas**, Evangelos C. Papakitsos. *Lexicographic Environments in Natural Language Processing (NLP)*. In 24th Pan-Hellenic Conference on Informatics (PCI 2020), November 20–22, 2020, Athens, Greece. ACM, New York, NY, USA, 219-222. DOI: <https://doi.org/10.1145/3437120.3437310>
54. Nikoletta E. Samaridi, **Nikitas N. Karanikolas**, Evangelos C. Papakitsos, Michail G. Papoutsidakis. *Designing a Greek Electronic Dictionary based on Ontology*. In 24th Pan-Hellenic Conference on Informatics (PCI 2020), November 20–22, 2020, Athens, Greece. ACM, New York, NY, USA, 223-225. DOI: <https://doi.org/10.1145/3437120.3437311>
55. Ioannis G Chaidoulis and **Nikitas N. Karanikolas**. *Review on energy storage systems for renewables – Global & Greece*. In 24th Pan-Hellenic Conference on Informatics (PCI 2020), November 20–22, 2020, Athens, Greece. ACM, New York, NY, USA, 403-406. DOI: <https://doi.org/10.1145/3437120.3437350>
56. Dimitris Markopoulos, Anastasios Tsolakidis, **Nikitas N. Karanikolas**, Christos Skourlas. *Towards the design of a Conceptual Framework for the operation of Intensive Care Units based on Big Data Analysis*. In 24th Pan-Hellenic Conference on Informatics (PCI 2020), November 20–22, 2020, Athens, Greece. ACM, New York, NY, USA, 411-415. DOI: <https://doi.org/10.1145/3437120.3437352>
57. Konstantinos Chytas, Anastasios Tsolakidis, **Nikitas N. Karanikolas**, Christos Skourlas. *An integrated system for predicting students' academic performance in smart universities*. In 24th Pan-Hellenic Conference on Informatics (PCI 2020), November 20–22, 2020, Athens, Greece. ACM, New York, NY, USA, 416-419. DOI: <https://doi.org/10.1145/3437120.3437353>
58. George Meletioui, **Nikitas N. Karanikolas**, Christos Skourlas. *Towards a framework for increasing Students' participation in Quality Assurance procedures*. In 24th Pan-Hellenic Conference on Informatics (PCI 2020), November 20–22, 2020, Athens, Greece. ACM, New York, NY, USA, 424-427. DOI: <https://doi.org/10.1145/3437120.3437355>
59. Nikoletta E. Samaridi, **Nikitas N. Karanikolas**, Michail Papoutsidakis, Evangelos C. Papakitsos, *A Survey on Ontological Organization of Data in the Semantic Web*. In the 14th International Scientific Conference eRA (eRA 2021 - Industry 4.0), October 19, 2021, Athens, Greece. (<http://era-conference.teipir.gr/>)
60. Eirini Manga, Nikitas Karanikolas, Catherine Marinagi, and Christos Skourlas. *Evaluating Citizen Comments in Public Consultations Using Data Mining: Analyzing Legislation Comments for the Greek General Commercial Registry*. In 25th Pan-Hellenic Conference on Informatics (PCI 2021), November 26–28, 2021, Volos, Greece. Association for Computing Machinery, New York, NY, USA, 430–435. DOI: <https://doi.org/10.1145/3503823.3503902>
61. Chaidoulis Ioannis, Psycharis Sarantos, Karanikolas Nikitas. *An implementation of the STEM epistemology in a Training Framework for in-vehicle networks*. In 3rd SCIENTIX2022, September 23–25, 2022, Athens, Greece.
62. Ioannis Chaidoulis, Nikitas Karanikolas, Sarantos Psycharis. *Modular, low-cost, open-source lab platform for Electronic Engineering & Mechatronics*. In 26th Pan-Hellenic Conference on Informatics (PCI 2022), November 25–27, 2022, Athens, Greece. ACM, New York, NY, USA, 5 pages.

C. Papers in Books and Paper Collections

1. (in Greek) **Νικήτας Ν. Καρανικόλας** και Χρήστος Σκουρλάς. *Κατάταξη κειμένων: Δημιουργία υποψηφίων φράσεων-κλειδιών από υπάρχουσες μικρότερες*. Στο Χ. Σκουρλά, *Παράλληλη, Βασιζόμενη σε Περιεχόμενο, Διαγλωσσική Ανάκτηση Πληροφοριών*, 2006.
2. (in Greek) Δήμητρα Μελισσαροπούλου, Ελένη Γαλιώτου, Ελεωνόρα Δημελά, **Νικήτας Καρανικόλας**, Χρήστος Παπαναγιώτου, Γιώργος Ξυδόπουλος, Αγγελική Ράλλη, *Υλοποίηση του πρώτου πολυμεσικού τριδιαλεκτικού διαδικτυακού λεξικού*. Στο Μαρίνα Τζακώστα (Επιμέλεια), *Η Διδασκαλία των Νεοελληνικών Γλωσσικών Ποικιλιών και Διαλέκτων στην Πρωτοβάθμια και Δευτεροβάθμια Εκπαίδευση*, ISBN 978-960-01-1706-6, GUTENBERG, Ιούλιος 2015, σελίδες 344.
3. (in Greek) **Νικήτας Ν. Καρανικόλας**, Ελένη Γαλιώτου, Κωνσταντίνος Αθανασάκος & Γεώργιος Κορωνάκης, *Ένα πολυτροπικό σύστημα αρχειοθέτησης και διαχείρισης γραπτών και προφορικών πηγών μελέτης της γλώσσας και των γλωσσικών ιδιωμάτων*. Στο Αγγελική Ράλλη, *Πρόγραμμα Θαλής: Πόντος, Καππαδοκία, Αϊβαλί: Στα Χνάρια της Μικρασιατικής Ελληνικής*, ISBN 978-960-99426-2-1.
4. (in Greek) Ελένη Γαλιώτου, **Νικήτας Ν. Καρανικόλας**, Κωνσταντίνος Αθανασάκος & Γεώργιος Κορωνάκης, *Σχεδίαση και ανάπτυξη συστήματος διαχείρισης πολυμεσικού τριδιαλεκτικού λεξικού*. Στο Αγγελική Ράλλη, *Πρόγραμμα Θαλής: Πόντος, Καππαδοκία, Αϊβαλί: Στα Χνάρια της Μικρασιατικής Ελληνικής*, ISBN 978-960-99426-2-1.

D. Other Conference Papers:

1. (in Greek) **Νικήτας Καρανικόλας** και Ιωάννα Πολυδώρου. *Το μηχανογραφημένο σύστημα της βιβλιοθήκης του Οικονομικού Πανεπιστημίου Αθηνών*. 6ο Πανελλήνιο Συνέδριο Ελλήνων Βιβλιοθηκάρων: Νέες Τεχνολογίες για την Αυτοματοποίηση των Ελληνικών Βιβλιοθηκών, Νοέμβριος 1990.
Pan-Hellenic conference publishes full papers.
2. (in Greek) **Νικήτας Ν. Καρανικόλας** και Ασημίνα Περρή. *Ο Θεσμός του Διαδανεισμού στις Πανεπιστημιακές Βιβλιοθήκες*. 6ο Πανελλήνιο Συνέδριο Ακαδημαϊκών Βιβλιοθηκών, Νοέμβριος 1997.
Pan-Hellenic conference publishes full papers.
3. **N. Karanikolas**, D. Rizos, C. Skourlas, J. Mpratos and E. Kouskouni. *Interconnection between Laboratory Information System (LIS) and Hospital Information System (HIS). Achievements and Failures*. BCLF'2001: 9th Meeting of Balkan Clinical Laboratory Federation, 12-15 September 2001. Balcan Journal of Clinical Laboratory, volume viii, number I, 2001, ISSN 1310-4543.
Balkan conference publishes abstracts.
4. (in Greek) Κωνσταντίνος Σ. Μαμμάς και **Νικήτας Ν. Καρανικόλας**. *Σχεδιασμός και εφαρμογή πρωτοκόλλων περιεγχειρητικής φροντίδας για συστήματα Τηλεϊατρικής*. 23^ο Πανελλήνιο Συνέδριο Χειρουργικής και Διεθνές Χειρουργικό Φόρουμ, Νοέμβριος 2002. Ελληνική Χειρουργική, τόμος 74, τεύχος 6, συμπλήρωμα I, ISSN 0018-0092.
Pan-Hellenic conference publishes abstracts.
5. (in Greek) Γαλιώτου, Ε., **Καρανικόλας, Ν.**, Ράλλη, Α. (2017). *Αρχειοθέτηση και διαχείριση ψηφιοποιημένων πηγών ελληνικών διαλέκτων*. Πρακτικά 2ου Πανελληνίου Συνεδρίου Ψηφιοποίησης Πολιτιστικής Κληρονομιάς - EuroMed 2017, Βόλος, 1-3/12/2017.
Pan-Hellenic conference publishes full papers.

E. Dissertations / Technical Reports

1. (in Greek, Technical Report) Θ. Καλαμπούκης, **N. Karanikolas** και Σ. Μάντζαρης. *Ένα Σύστημα Ελεύθερης Επεξεργασίας Κειμένων* (τεχνική έκθεση). Κέντρο Έρευνας Οικονομικού Πανεπιστημίου Αθηνών, Αθήνα 1992.
2. (in Greek, Ph.D. Dissertation) **Νικήτας Ν. Karanikolas**. *Τεχνολογικές και Γλωσσολογικές προσεγγίσεις στην Κατανόηση Φυσικής Γλώσσας* (Διδακτορική διατριβή). Οικονομικό Πανεπιστήμιο Αθηνών, τμήμα Εφαρμοσμένης Πληροφορικής, Οκτώβριος 1993.

ST. Text Books / Proceedings Editing

1. (in Greek, Text Book) **Νικήτα Ν. Karanikola**. *Τεχνολογίες Διαδικτύου και Ηλεκτρονικό Εμπόριο: Θεωρητική και Πρακτική Προσέγγιση*, Έκδοση Πρώτη, 2006, Εκδόσεις Νέων τεχνολογιών, ISBN: 960-8105-94-3.
2. (Proceedings Editing) Theodore S. Papatheodorou, Dimitris N. Christodoulakis, **Nikitas N. Karanikolas**. *Current Trends in Informatics*, PCI'2007 Proceedings, 2007, New Technologies Publications, ISBN: SET 978-960-89784-0-9,
vol. A 978-960-89784-1-6,
vol. B 978-960-89784-2-3.
3. (Proceedings Editing) T. Papatheodorou, D. Christodoulakis and **N. Karanikolas**. *EUREKA! 2007*, Proceedings of the 1st Panhellenic Student Conference on Informatics, 2007, New Technologies Publications.
4. (in Greek, Text Book) **Νικήτα Ν. Karanikola**, *Εμβάθυνση στον προγραμματισμό με τη γλώσσα C*, Έκδοση Πρώτη, 2009, Εκδόσεις Νέων τεχνολογιών, ISBN: 978-960-6759-34-5.
5. (in Greek, Text Book) **Νικήτα Ν. Karanikola**. *Πληροφορική και Επαγγέλματα Υγείας*, Έκδοση Πρώτη, 2010, Εκδόσεις Νέων τεχνολογιών, ISBN: 978-960-6759-57-4.
6. (in Greek, Text Book) **Νικήτα Ν. Karanikola**, *Καθιερωμένα Πληροφοριακά Συστήματα Επιχειρήσεων - Τεχνική Αποτύπωση*, Έκδοση Πρώτη, 2012, Εκδόσεις Νέων Τεχνολογιών, 328 σελ., ISBN: 978-960-6759-84-0.
7. (in Greek, Text Book) **Νικήτα Ν. Karanikola**, *Java για όλους*, Έκδοση Πρώτη, 2015, Εκδόσεις Νέων Τεχνολογιών, ISBN: 978-960-578-001-2.
8. (Proceedings Editing) **Nikitas N. Karanikolas**, Demosthenes Akoumianakis, Mara Nikolaidou, Dimitrios D. Vergados, Michalis Xenos, George M. Giaglis, Stefanos Gritzalis, Lazaros F. Merakos, Panagiotis Tsanakas, Cleo Sgouropoulou (eds), *Proceedings of the 19th Panhellenic Conference on Informatics*, PCI 2015, Athens, Greece, October 1-3, 2015 .ACM 2015, ISBN 978-1-4503-3551-5
9. (in Greek, Text Book) **Νικήτα Ν. Karanikola**, *Java για λίγους*, Έκδοση Πρώτη, 2018, Εκδόσεις Νέων Τεχνολογιών, ISBN: 978-960-578-044-9.
10. (Proceedings Editing) **Nikitas N. Karanikolas**, Basilis Mamalis, John Kontos, Grammati E. Pantziou, Stefanos Gritzalis, Christos Douligeris (eds), *Proceedings of the 22nd Pan-Hellenic Conference on Informatics*, PCI 2018, Athens, Greece, November 29 – December 01, 2018. ACM 2018, ISBN 978-1-4503-6610-6.
11. (Proceedings Editing) **Nikitas N. Karanikolas**, Athanasios Voulodimos, Cleo Sgouropoulou, Mara Nikolaidou and Stefanos Gritzalis (eds), *Proceedings of the 24th Panhellenic Conference on Informatics*, PCI 2020, Athens, Greece, November 20 - 22, 2020. ACM, March 2021, ISBN 978-1-4503-8897-9.

12. (Proceedings Editing) Michael Gr. Vassilakopoulos, **Nikitas N. Karanikolas**, George Stamoulis, Vassilios S. Verykios and Cleo Sgouroypoulou (eds), *Proceedings of the 25th Panhellenic Conference on Informatics*, PCI 2021, Volos, Greece, November 26 – 28, 2021. ACM, February 2022, ISBN 978-1-4503-9555-7.

Z. Other Material (Academic Notes)

1. (in Greek) **Νικήτα Ν. Καρανικόλα**. *Μορφοποίηση Δικτύων Novell* (σημειώσεις). Οκτώβριος 1993.
2. (in Greek) **Ν. Καρανικόλας**, Π. Κούλας και Π. Βλάχος. *Διαχείριση Συστημάτων Unix* (σημειώσεις). Εθνικό Κέντρο Δημόσιας Διοίκησης, Ινστιτούτο Διαρκούς Επιμόρφωσης, Νοέμβριος 1995.
3. (in Greek) **Νικήτα Ν. Καρανικόλα**. *Ανάπτυξη εφαρμογών Βάσεων Δεδομένων σε Access* (σημειώσεις). ΤΕΙ Αθήνας, Τμήμα Πληροφορικής, Νοέμβριος 1996.
4. (in Greek) **Νικήτα Ν. Καρανικόλα**. *Συστήματα ελεύθερης ανάκτησης κειμένων* (σημειώσεις). Εθνική Σχολή Δημόσιας Διοίκησης, Μάρτιος 2000.
5. (in Greek) **Νικήτα Ν. Καρανικόλα**. *Συστήματα ροής εργασιών* (σημειώσεις). Εθνική Σχολή Δημόσιας Διοίκησης, Μάρτιος 2000.
6. (in Greek) **Νικήτα Ν. Καρανικόλα**. *Ανάπτυξη εφαρμογών στο διαδίκτυο* (σημειώσεις). Εθνικό Κέντρο Δημόσιας Διοίκησης, Οκτώβριος 2004.
7. (in Greek) **Νικήτα Ν. Καρανικόλα** και Γιάννη Χάλαρη. *Ηλεκτρονικό Εμπόριο* (σημειώσεις). ΤΕΙ Αθήνας, Τμήμα Πληροφορικής, Φεβρουάριος 2005.
8. (in Greek) **Νικήτα Ν. Καρανικόλα** και Χρήστου Σκουρλά. Προηγμένες Βάσεις Δεδομένων (σημειώσεις για το αντίστοιχο μάθημα στο MASTER INFORMATIQUE ET SCIENCES DE L'INFORMATION ET DE LA COMMUNICATION, UNIVERSITE DE LIMOGES / TEI OF ATHENS)
Κεφάλαιο 3: Μοντελοποίηση Βάσεων Δεδομένων, Νικήτας Ν. Καρανικόλας, 3-11-2009,
Κεφάλαιο 4: Security, Protection, Constraints, Integrity, Triggers, Transactions, Concurrency, Consistency, Νικήτας Ν. Καρανικόλας και Χρήστος Σκουρλάς, 29-10-2008.
9. (in Greek) **Νικήτα Ν. Καρανικόλα**, *PL/SQL & Triggers* (σημειώσεις). Οκτώβριος 2013.
10. (in Greek) **Νικήτα Ν. Καρανικόλα**, *Σημειώσεις MySQL: Like, Between, In, Alias, Distinct, Union, Intersect, Minus, Sub-queries, Joins, Views, Universal View*. Νοέμβριος 2013.
11. (in Greek) **Νικήτα Ν. Καρανικόλα**, *Σημειώσεις Εργαστηρίου Java*. Μάιος 2014.

H. Program Committee / Conference Reviewer / Journal Reviewer

1. PCI 2005, 10th Panhellenic Conference on Informatics,
2. IADIS MCCSIS 2006, IADIS Virtual Multi Conference on Computer Science and Information Systems 2006,
3. PCI 2007, 11th Panhellenic Conference on Informatics,
4. ICEIS 2007, 9th International Conference on Enterprise Information Systems,
5. BCI 2007, 3rd Balkan Conference in Informatics,
6. IWAAI 2007, International Workshop on Applications with Artificial Intelligence, in conjunction with the 19th IEEE International Conference on Tools with Artificial Intelligence (ICTAI),
7. ICEIS 2008, 10th International Conference on Enterprise Information Systems,
8. 2nd ACM iNews08: Improving Non-English Web Searching,
9. Journal of Information Retrieval (JIR, Springer) Special Issue “Non-English Web Retrieval”,
10. ICEIS 2009, 11th International Conference on Enterprise Information Systems,
11. MIE 2009, XXII International Conference of the European Federation for Medical Informatics,
12. BCI 2009, 4th Balkan Conference in Informatics,
13. IADIS e-Health 2009,
14. ICEIS 2010, 12th International Conference on Enterprise Information Systems,
15. IADIS e-Health 2010,
16. ICEIS 2011, 13th International Conference on Enterprise Information Systems,
17. IADIS e-Health 2011,
18. MIE 2011, XXIII International Conference of the European Federation for Medical Informatics,
19. PCI 2011, 15th Panhellenic Conference on Informatics,
20. BCI 2012, 5th Balkan Conference in Informatics,
21. ICEIS 2012, 14th International Conference on Enterprise Information Systems,
22. IADIS e-Health 2012,
23. MIE 2012, XXIV International Conference of the European Federation for Medical Informatics,
24. PCI 2012, 16th Panhellenic Conference on Informatics,
25. PASTH 2012, 2nd International Workshop on Pervasive and Ambient Applications, Systems and Technologies for Healthcare,
26. BCI 2013, 6th Balkan Conference in Informatics,
27. ICEIS 2013, 15th International Conference on Enterprise Information Systems,
28. IADIS e-Health 2013,
29. PCI 2013, 17th Panhellenic Conference on Informatics,
30. Computer Science and Information Systems (ComSIS) Journal, 2013,
31. Journal of Information Science, 2011 – 2015,
32. ICEIS 2014, 16th International Conference on Enterprise Information Systems,
33. IADIS e-Health 2014,
34. IADIS Applied Computing 2014,
35. PCI 2014, 18th Panhellenic Conference on Informatics,
36. Natural Language Engineering, 2014,

37. Organizing Committee, 5th Pan-Hellenic Conference in Informatics, 1995,
 38. Organizing Committee, MDSO 2011,
 39. Organizing Committee, MDSO 2012,
 40. Organizing Committee, MDSO 2013,
 41. Organizing Committee, MDSO 2014,
 42. Organizing Committee, MDSO 2015,
 43. ICEIS 2015, 17th International Conference on Enterprise Information Systems,
 44. PCI 2015, 19th Panhellenic Conference on Informatics,
 45. BCI 2015, 7th Balkan Conference in Informatics,
 46. ICEIS 2016, 18th International Conference on Enterprise Information Systems,
 47. EFMI STC 2016, European Federation for Medical Informatics, Special Topic Conference,
 48. Organizing Committee and Program Committee member, MDSO 2016,
 49. Organizing Committee and Program Committee member, RDI 2016,
 50. PCI 2016, 20th Panhellenic Conference on Informatics,
 51. ICEIS 2017, 19th International Conference on Enterprise Information Systems.
 52. Informatics for Health 2017 - the joint meeting of Medical Informatics Europe MIE 2017,
 53. Organizing Committee and Program Committee member, MDSO 2017,
 54. Organizing Committee and Program Committee member, RDI 2017,
 55. PCI 2017, 21st Panhellenic Conference on Informatics,
 56. BCI 2017, 8th Balkan Conference in Informatics,
 57. ICEIS 2018, 20th International Conference on Enterprise Information Systems,
 58. MIE 2018, the 29th Medical Informatics Europe conference, Gothenburg, Sweden,
 59. PCI 2018, 22nd Panhellenic Conference on Informatics,
 60. Organizing Committee and Program Committee member, MDSO 2018,
 61. Organizing Committee and Program Committee member, RDI 2018,
 62. ICEIS 2019, 21st International Conference on Enterprise Information Systems,
 63. MIE 2019, the 29th Medical Informatics Europe conference, Geneva, Switzerland,
 64. PCI 2019, 23rd Panhellenic Conference on Informatics, Limassol, Cyprus,
 65. ICEIS 2020, 22nd International Conference on Enterprise Information Systems.
- (Newer items will be added soon)

TEACHING

Teaching in Higher Education

1. From December 1988 until June 1993 teaching assistant of AUEB's department of Informatics, in the following course subjects:
 - Introduction in Informatics and Structured Programming with Pascal, Level I
 - Introduction in Informatics and Structured Programming with Pascal, Level II
 - Operating Systems, Level I
 - Operating Systems, Level II
 - Microcomputers and Computer Graphics
 - Compilers
 - Advanced Topics for Compilers
 - Data Structures
 - File Structures
 2. From October 1996 until June 1998 (four semesters) taught "Advanced Programming Techniques" and have been responsible for laboratories in Databases course, Dept. of Informatics, TEI of Athens.
 3. From February 2000 until June 2000 (one semester) taught «Applications of Information Systems in Management», National School of Public Administration.
 4. From September 2000 until November 2000 (one semester) taught "Introduction to Software packages", National School of Public Administration.
 5. From November 2004 until now, teach the course "Electronic Commerce", Dept. of Informatics, TEI of Athens.
 6. From November 2004 until 2010 responsible for laboratories in Databases course, Dept. of Informatics, TEI of Athens.
 7. From October 2006 until now (with the exception of an academic year, 2008-2009) teach the course "Medical Informatics", Dept. of Medical Laboratories, TEI of Athens.
 8. From March 2007 until May 2007 taught "Webpage construction", National School of Public Administration.
 9. From October 2008 until September 2009 (one academic year) taught "Computer Programming II (C Language)", Dept. of Informatics, TEI of Athens.
 10. From September 2008 until now teach "Advanced Databases and Information Systems" in the postgraduate program that is co-organized by Dept. of Informatics, TEI of Athens and University of Limoges.
 11. For an academic year period (2009-2010) taught "Informatics and Society – Expression Techniques", Dept. of Informatics, TEI of Athens.
 12. From October 2010 until now, teach the course "Management Information Systems", Dept. of Informatics, TEI of Athens.
 13. From October 2011 until today teach the laboratorial part of the course "Software Development Methodologies (Java)", Dept. of Informatics, TEI of Athens.
 14. Since February 2014 teach the theoretical part of the course "Software Development Methodologies (Java)", Dept. of Informatics, TEI of Athens.
 15. Since February 2014 teach "Web Technology" in the postgraduate program that is co-organized by Dept. of Informatics, TEI of Athens and University of Limoges.
 16. Supervision of about 50 Graduation Projects (dissertations) in Dept. of Informatics, TEI of Athens.
- (Newer items will be added soon)

Teaching / Training Professionals

Since spring 1989 until today taught for various companies, among others:

- Digital Equipment Hellas (DEC)

- Commercial Bank of Greece
- LANTEC SA
- SyNET SA
- Greek Computer Society (GCS, EIIY)
- Training Institute, National Centre of Public Administration
- Research Center of Athens University of Economics and Business
- Management Information Technology (MIT) SA
- Institute of Sociological Work (I.K.E.)
- ATKO SA

the following topics:

- Information Systems Analysis
- Database Design
- Information Retrieval Systems
- Workflow Systems
- LAN and WAN networks design, telephony unification (VoIP, VoFR, VoATM)
- Decision Support Systems
- Ultrix (BSD Unix) Utilities and Commands, Administration
- OSF/1 Utilities and Commands, Administration
- SCO Unix, Use and System's Administration
- Linux, Use and System's Administration
- Installation and Configuration of Novell networks
- Networks and Telematics
- Programming Language C
- Programming Language Pascal
- Programming Language Java
- JavaScript programming (client side scripting)
- Web development/server side scripting with ASP
- Web development/server side scripting) with PHP
- CMS Joomla
- SQL Language
- MySQL
- Oracle
- Application Development with Access
- Databases in Windows based operating systems
- DOS
- DBase III+, DBase IV, Clipper
- Windows
- Word
- Lotus 123
- Excel

PROFESSIONAL WORK

Information Services

From 1991, since today consulting services for Operating Systems (mostly Digital Equipment and Hewlett Packard OS):

- Ultrix (BSD Unix) System Management
- OSF/1 System Management
- Digital Unix System Management
- VMS System and Network Management I
- VMS System and Network Management II
- HP-UX System Management
- HP-UX Clustering
- SCO Unix System Management
- NOVELL networks configuration
- Linux Installation, Administration and Networking

Implementation of Information Systems

1. Development of Software for Video Club administration, 1987.
2. Development of Library Information System, 1989.
3. Development of Software for A.G.B. (Auditing Great Britain), 1991-1992.
4. Development of Multimedia Software for Basic Mathematics, 1993.
5. Development of an Information Retrieval desktop application, 1994.
6. Development of a HyperText software for Training purposes (1995). EuroQualification “Trainers Training” (OAEΔ – Greece, AFPA – Italy, ENAIP – France).
7. Development of “Computer Assisted Information Resources Navigation” (CAIRN), 1998 – 2002.
8. Development of a Text Classification System, 2004 – 2009.
9. Development of a Management Information System for administering Commitments and Payments, 2012 – 2013.
10. Development of a multi dialectal lexicon construction tool. Project Thales, 2013 – 2014.
11. Development of a corpus construction tool for written and oral dialectal data resources. Project Thales, 2014 – 2015.

Implementation of Informatics Projects

1. Scientific supervision for the company MERCURY SA on the “Unification of digital documents of the ELOT’s standards”, 1996-98. ELOT (E.A.O.T.) is the Greek Standards Organization.
2. Design and implementation of a database for the Greek Cinema movies, on behalf of EMS Hellas SA, 1997.

Analysis and Design of Information Systems

Similar with Implementation of Information Systems (see above)

Positions of Responsibility

1. System’s Head, TEI-Athens’ Library, from November 1996 until October 1997.
2. System’s Head, Department of Informatics, Areteion University Hospital. Employment October 1997. Official assignation as Department’s Head in 2000. It lasted until November 2004.

3. General partner and Manager in the General Partnership “N. Karanikolas - S. Mantzaris” with company’s scope to produce Software and provide Informatics Services. It lasted from November 26, 1993 until May 12, 1995.
4. Partner and Manager (for a six year period) of a Limited Liability company with company’s scope to produce Software and provide Informatics Services.
5. Director of Laboratory «Information, Data and Knowledge Management» of the Department of Informatics & Computer Engineering of University of West Attica, since June 2022.

Partnership in Research & Development projects

Eleven (11) R & D projects till now.

KNOW-HOW

Operating Systems

- MS-DOS
- Windows for WorkGroups
- Windows 95, 98
- Windows NT 3.51, NT 4, 2000, XP, 7, 10
- Novell NetWare
- AT&T Unix System V/68 (Motorolla M68000)
- SCO Unix System V/386..... (Intel 80386, 80486)
- Primos..... (Prime 550, 2350)
- VMS (Vax 8810, VAXStations and VAXSystems)
- Ultrix (DEC's BSD Unix)..... (Vax 6320, DECStations and DECSystems)
- OSF/1..... (DECStations and DECSystems)
- Digital Unix (DECStations and DECSystems)
- Mac OS..... (Apple Macintosh)
- OS/400..... (IBM AS/400)
- HP-UX..... (HP 9000, K100)
- SUN Solaris (var)
- Linux (Intel Pentium, ALPHA based machines)

Web Setup and Configuration

- Web Servers (IIS, Apache, Tomcat),
- Mail Servers (sendmail),
- DNS (bind),
- IP Masquerade (ipchains),
- Proxy (squid)

Programming Languages, Software Development Tools and Environments

- Borland C++
- Borland C++ Builder
- Pascal (Turbo and Primos)
- Delphi
- Java Development Kit 1.3, 1.4, 1.5, 1.6 and 1.7
- JBuilder
- JCreator
- Eclipse
- NetBeans
- Visual Basic
- Arity Prolog, Turbo Prolog
- Fortran
- Microfocus Cobol
- ToolBook (for Multimedia projects)
- Paradox
- Paradox Engine
- MS Access
- DAO (Data Access Objects)

- MS SQL Server (6.5, 7, 2000, 2005)
- Ingres
- Oracle
- MySQL
- PostgreSQL
- HTML, HTML Forms and CGI
- Web development / Server side scripting: JavaScript, VBScript, ASP, ADO, PHP, JSP
- Web development / Client side scripting: JavaScript
- XML, DTD, XML Schema, CSS, XSL
- SAX (Simple API for XML)
- DOM (Document Object Model) for XML
- C / Unix
- lex / Unix
- yacc / Unix

Algorithms, APIs, Data Structures

- OLE Automation
- MAPI (Mail API)
- TWAIN
- TIFF
- RTF Parsing
- COM
- JPEG
- CCITT G4 compression/decompression
- Deflate Compression
- Programmatically creation of Windows Shortcuts
- VfW (Video for Windows)
- Stemming words (texts) of Greek, English and other Balkan Languages
- Inverted Files (implemented in various File Management Systems: Toolbox Database, Paradox Tables, Relational (SQL) Tables)
- VSM (Vector Space Model)
- Nearest Neighbor Matching
- Key Phrase Extraction from texts
- Automatic Text Classification
- Text Summarization