

Personal information:

Name, surname	Dr Haralampos Karanikas
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Current place of work:

Dr. Haralampos Karanikas is a lecturer at the Department of Computer Science and Biomedical Informatics, University of Thessaly.

Additional current positions:

- Senior Researcher at University of Athens (Medical School), member of the European Initiative EUnetHTA for Health Technology Assessment.
- eHealth consultant in Athens Medical Society, member of the team that develops the prescription protocols integrated in the Greek national electronic prescription system.
- General Secretary of the Greek Society of eHealth Services and Education (EEMEPY).
- Member of the National Committee for the implementation of protocols and monitoring of pharmaceutical expenditure, under the authority of the Ministry of Health.
- Board member of HL7 Hellas, Technical Steering Committee Chair.

Working experience:

No	Name of workplace	Contact of employer	Dates (from – to)	Name of position held	Description of relevant working experience
1	Athens Medical Society, eHealth Consultant	For reference: (+30) 210 7211845/ ethireos@gmail.com , Mr EL Thireos, Secretary General	2013 - present	eHealth information	Member of the team that designs and develops the prescription protocols integrated in the Greek national electronic prescription system
2	Greek Health Procurement Committee (E.P.Y.),	For reference:+30 2132161854, doap@moh.gov.gr, H. Milonis, Director of IT Division of MoH	3/2012 – 4/2013	Special IT/eHealth advisor, Board member	Special IT/eHealth advisor, Board member of the Greek Health Procurement Committee (E.P.Y.), an independent agency with administrative and financial autonomy, reporting directly to the Minister of Health. E.P.Y. is responsible for strategic and operational planning of the procurement system in the Health Sector.
3	Greek Ministry of Health,	For reference:+30 2132161854, doap@moh.gov.gr, H. Milonis, Director of IT Division of MoH	9/2010 – 3/2012	Special IT/eHealth advisor	Special IT/eHealth advisor, Ministry of Health, scientific responsible for the implementation of ESY.net (National health BI system), member of the Greek DRGs implementation team and member of the Central Committee

					of the Ministry to monitor the IT systems of the NHS.
4	Neurosoft SA,	For reference: +30 694 5750012, nickvas@neurosoft.gr, Nikos Vassilikolididakis, Director		Information Management Consultant/Expert	<p>Main Projects:</p> <p>1. Analysis, design and development of an information system for the EUROPEAN COMMISSION, JRC JOINT JOINT RESEARCH CENTER, Institute for Health and Consumer Protection, Unit: Toxicology and Chemical Substances European Chemicals Bureau.</p> <p>2. Principal Investigator with participation in the organization, writing and research development of the project "Implementation of Text Mining and its integration into products for the storage and management of Greek texts", which was approved under the Operational Program for Research and Technology EPET II, Subprogram 2, Measure 2.1 with the code number 99BE19.</p> <p>3. Business Intelligence advisory services to the computerization project of the Ministry of Tourism.</p>

Experience in implementing contracts:

No	Name of contract	Client, contacts of the client (name, surname, tel., e-mail)	Start and end date of the contract	Brief contract description	Role of the specialist in implementing the contract and his functions
1	EUnetHTA – EU project	Medical School, National and Kapodistrian University of Athens, Senior Researcher/Advisor For reference:+30 21 0727 5845, mpalli@elke.uoa.gr, M. Palli	2016 - present	Involves real world evidence management for reimbursement issues by the Insurance Fund.	Senior ehealth Consultant/ Researcher, in the area of Health Technology Assessment (HTA).
2	National EHR	COSMOTE/OTE, For reference: abregian@ote.gr, Bregiannis AI, Public Segment ICT Sales Manager, COSMOTE	1/2015 – 12/2016	Analysis and design of the National EHR, Patient Summary and Patient Consent modules. WEB technologies and about 44.000 users.	Senior ehealth Expert in the National ePrescription system.
3	"Financial Management and Formation of a Hospital Evaluation Framework for NHS"	Democritus University of Thrace, eHealth Consultant For reference: +30 2531039425, npolyzos@socadm.duth.gr , Professor N. Polyzos	11/2013 – 2/2014	"Financial Management and Formation of a Hospital Evaluation Framework for NHS" Deliverables included: a) General Economic and Functional Assessment of Hospital - ESY.net b) Hospital Management of Hospital c) Hospital Management of Hospitals KEN / DRG.	eHealth Consultant in the scientific project entitled "Financial Management and Formation of a Hospital Evaluation Framework for NHS"
4	"Setting up a procurement and management framework for hospital drugs"	Athens Medical Society, eHealth Consultant For reference: (+30) 210 7211845/ ethireos@gmail.com , Mr EL Thireos, Secretary General	5/2013 – 11/2013	Within the framework of the project, he designed and implemented a methodology for analyzing and evaluating the operating costs of hospitals and in particular the cost of medicines and electronic services related to procurement.	eHealth Information Architect. "Setting up a procurement and management framework for hospital drugs"

5	"Development, Introduction and Evaluation of Quality System in Outpatient Bodies 5 Hospitals in Phasing-In Regions"	RESEARCH CENTER OF BIOLOGICAL MATERIALS SA, For reference: +30 693 2743302, gpappous@gmail.com, President of EKEVIL G. Pappoys	7/2010 – 9/2010	Ehealth BI Expert for the implementation of the project "Development, Introduction and Evaluation of Quality System in Outpatient Bodies 5 Hospitals in Phasing-In Regions"	Ehealth BI Expert
6	MetaOn project	National and Kapodistrian University of Athens, For reference:+30 21 0727 5845, mpalli@elke.uoa.gr, M. Palli	9/2006 – 5/2008	Major author and Technical Coordinator in the implementation of the MetaOn project "Ontological Directional creation and management of metadata for" intelligent "search of text and image collections"	Senior Information Architect
7	research project PARMENIDES	Ministry of National Defense, Office of Informatics and Research. For reference: +30 210 6598577 info@dideap.mil.gr, Colonel (MP) Nektarios Mitropoulos	12/2004 – 6/2005	Participation in the research project PARMENIDES (IST-2001-39023 / European Communities). In my work I drew the basis and the model of knowledge (ontology) for the case study of the Ministry of National Defense.	Information Architect Consultant
8	PARMENIDES project (IST-2001-39023 / European Communities)	UMIST (University of Manchester Institute of Science and Technology), UK For reference: +30 00 30 694 5896493, babis.theodoulidis@manchester.ac.uk, Prof B. Theodoulidis	9/2001 – 5/2003	Major author of the PARMENIDES project (IST-2001-39023 / European Communities) entitled "Ontology Driven Temporal Text Mining On Organizational Data for Extracting Temporal Valid	Information Management/Architect My work consisted in designing and implementing the entire framework for processing textual information of the project with database technologies.

				Knowledge", (Funded by IST programme 3.25 million euros) The Parmenidis project aimed at understanding and analyzing textual information with particular emphasis on the timeline to support decision-making for an organization.	
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Indicative publications include:

Journal Articles

1. Kassari P, Papaioannou P, Billiris A, **H. Karanikas**, et al. "Electronic registry for the management of childhood obesity in Greece", Eur J Clin Invest. 2018; e12887. <https://doi.org/10.1111/eci.12887>
2. P. Mitropoulos, I. Mitropoulos, **H. Karanikas**, N. Polyzos, "The impact of economic crisis on the Greek hospitals' productivity", International Journal of Health Planning and Management, 2017;1–14.
3. Auffray C, Balling R, Barroso I, Bencze L, Benson M, Bergeron J... **Karanikas H**, et al. "Making sense of big data in health research: Towards an EU action plan" Journal Genome Medicine. 2016; 8:71.
4. A. Christodoulakis, **H. Karanikas**, A. Billiris, E.Thireos, N. Pelekis, "Big data" in health care Assessment of the performance of Greek NHS hospitals using key performance and clinical workload indicators, Journal: ARCHIVES OF HELLENIC MEDICINE 2016, 33(4):489-497.
5. Catherine Kastanioti, George Mavridoglou, **Haralampos Karanikas**, Nikolaos Polyzos, "ABC analysis: a tool of effectively controlling pharmaceutical expenditure in Greek NHS hospitals", Journal of Pharmaceutical Health Services Research, 2016.
6. Καστανιώτη Α, Καρακόλιας Σ, **Καρανίκας Χ**, Ζηλίδης Χ, «Αξιολόγηση Οικονομικής Διαχείρισης με βάση τα KEN-DRGs σε Δημόσιο Νοσοκομείο», ΓΑΛΗΝΟΣ τόμος 57ος, τεύχος 1ο, σελ. 016-030, 2016.
7. Polyzos N, **Karanikas H**, Thireos E, Kastanioti C, Kontodimopoulos N. "Reforming reimbursement of public hospitals in Greece during the economic crisis: Implementation of a DRG system", Journal - Health Policy. Elsevier, 2013 Jan; 109(1):14-22.
8. Kontodimopoulos N, Kastanioti C, Thireos E, **Karanikas H**, Polyzos N, "The contribution of generic substitution to rationalizing pharmaceutical expenditure in Greek public hospitals under recent economic crisis", Journal of Pharmaceutical Health Services Research, Volume 4, Issue 4, December 2013, Pages 211–216
9. **H. Karanikas**, G. Koundourakis, I. Kopanakis, T. Mavroudakis, N. Pelekis, "Discovering market trends in the biotechnology industry", **International Journal of Business Intelligence and Data Mining (IJBIDM)**, Vol. 6, No. 2, 2011.
10. I. Kopanakis, S. Karagiannis, N. Pelekis and **H. Karanikas**: "3D Visual Data Mining Techniques for the representation of Classification Outcomes and Association Rules", **Journal of Universal Computer Science 2005**.
11. Iakovidis, D.K., Pelekis, N., Kotsifakos, E.E., Kopanakis I., **Karanikas H.**, Theodoridis, Y., "A Pattern Similarity Scheme for Medical Image Retrieval ", Information Technology in Biomedicine, **IEEE Transactions** on Volume 13, Issue 4, July 2009 Page(s): 442 – 450.

Conference papers

1. P. Mitropoulos, I. Mitropoulos, **H. Karanikas**, N. Polyzos, "Productivity changes of Greek public hospitals during the economic crisis", 3rd International Symposium & 25th National Conference on Operational Research 26-28 June 2014, Volos, Greece.

2. Pristas, I., Doupi, P., Meglic, M., **Karanikas, H.**, Zaletel, M., Brkic, M., ... & Zuriaga, L. O. Supporting Interoperable Eu Patient Registries: Survey of Registry Holders' Needs. *Value in Health*, 17(7), A446. 2014
3. Pristas, I., Doupi, P., **Karanikas, H.**, Brkic, M., Plese, B., Zaletel, M., ... & López-Briones, C. PHP280-The Eu Patient Registry Landscape: Survey of Registry Profiles Through Parent Ja Research And Framework. *Value in Health*, 18(7), A562-A563. 2015
4. Doupi, P., Vuori, A., **Karanikas, H.**, Overview of key EU policy developments and their impact on demand for patient registry data, *European Journal of Public Health*, Volume 25, Issue suppl_3, 1 October 2015
5. **H Karanikas**, M Papadakis, E Thireos, Development Of Prescription E-Protocols For Medicines And Integration On The Greek National E-Prescription System, *Value in Health* Volume 18, Issue 7, Page A385
6. I. Maglogiannis, T. Goudas, A. Billiris, **H. Karanikas**, I. Valavanis, O. Papadodima, G. Kontogianni, A. Chatziioannou: Redesigning EHRs and Clinical Decision Support Systems for the Precision Medicine Era. In Proceedings of the 16th International Conference on Engineering Applications of Neural Networks (INNS) (p. 14). ACM 2015.
7. E. Katsiri , A. Christodoulakis , A. Billiris , **C. Karanikas** and K. Pramatarı “RFCure: An RFID based blood bank/healthcare information management system”, MEDICON 2016: XIV Mediterranean Conference on Medical and Biological Engineering and Computing. 2016
8. P Kassari, P Papaioannou, A Billiris, **H Karanikas** et al.,E-Health: A National Registry and Therapeutic Algorithm for the Prevention and Management of Overweight and Obesity in Childhood and Adolescence in Greece, *European Society for Paediatric Endocrinology 55th Annual ESPE*, (2016) **86** P-P1-456
9. Persephone DOUPI, **Haralampos KARANIKAS**, Ivan PRISTAŠ, Vanja PAJIĆ, Metka ZALETEL, EU Patient Registries as eHealth assets: addressing interoperability on all levels, MIE2015 in Madrid 27th-29th 2015
10. Χριστοδουλάκης Α, ΦΟΝΤΡΙΕ Α, Μπιλλήρης Α, **Καρανίκας Χ**, Χριστοδουλάκης Μ (2016). Ανάλυση Κόστους-Οφέλους για τη Θεραπεία Ασθενών με Μέσου-Ρίσκου Τοπικό Καρκίνο του Προστάτη, 11ο Πανελλήνιο Συνέδριο Δημόσιας Υγείας και Υπηρεσιών Υγείας, 2015.
11. Α. Μπιλλήρης, **Χ. Καρανίκας**, Η. ΜΑΓΚΛΟΓΙΑΝΝΗΣ, Ο. ΠΑΠΑΔΟΔΗΜΑ, Α. ΧΑΤΖΗΩΑΝΝΟΥ, Α. Χριστοδουλάκης, Σχεδίαση και Υλοποίηση Φακέλου Υγείας για τη Διαχείριση και Υποστήριξη Κλινικών Αποφάσεων για Ασθενείς με Μελάνωμα, 11ο Πανελλήνιο Συνέδριο Υγείας, Εθνικής Σχολής Δημόσιας Υγείας, Δεκέμβριος, 2015.
12. Α. Μπιλλήρης, Μ. ΠΑΠΑΔΑΚΗΣ, Α. Χριστοδουλάκης, **Χ. Καρανίκας** & Γ. ΚΑΜΠΟΥΡΗΣ, Στατιστικοί Δείκτες Απόδοσης του Ωνασείου Κ. Κ. με τη Χρήση του Qlikview, 11ο Πανελλήνιο Συνέδριο Υγείας, Εθνικής Σχολής Δημόσιας Υγείας, Δεκέμβριος, 2015
13. Christodoulakis A, **Karanikas H**, Billiris A, Thireos E, How Pharmaceutical Cost Indicators Are Affected when Adjusted to Hospitals' Clinical Workload: Data Analysis for Greek NHS Hospitals, ISPOR 18th Annual European Congress, *Value in Health* 18 (7), A533, November, 2015
14. Α. Χριστοδουλάκης, **Χ. Καρανίκας**, Α. Μπιλλήρης, Ε. ΘΗΡΑΙΟΣ, Συγκριτική Αξιολόγηση Νοσοκομείων με τη Χρήση Βασικών Δεικτών Απόδοσης, 41ο Ετήσιο Πανελλήνιο Ιατρικό Συνέδριο, Ιούνιος, 2015
15. Α. Χριστοδουλάκης, **Χ. Καρανίκας**, Α. Μπιλλήρης, Ε. ΘΗΡΑΙΟΣ, Βασικοί Δείκτες Απόδοσης των Μονάδων Υγείας του ΕΣΥ μετά από την Προσαρμογή τους στο Κλινικό Έργο, 10ο Πανελλήνιο Συνέδριο για τη Διοίκηση, τα Οικονομικά και τις Πολιτικές της Υγείας. Δεκέμβριος, 2014
16. **Καρανίκας Χ.**, Σκαλκίδης Ι., Meglic M., «PARENT KOINH EYΡΩΠΑΙΚΗ ΔΡΑΣΗ: Πρωτοβουλία για διασυνοριακή χρήση αρχείων ασθενών», 40ο Ετήσιο Πανελλήνιο Ιατρικό Συνέδριο, Αθήνα Μάιος 2014.
17. Καστανιώτη Αικ., **Καρανίκας Χ.**, Θηραίος Ελ., Πολύζος Ν., «Αξιολόγηση και πολιτικές βελτίωσης του πλαισίου προμηθειών και τιμολόγησης των νοσοκομειακών φαρμάκων», 9ο Πανελλήνιο Συνέδριο για τη Διοίκηση, τα Οικονομικά και τις Πολιτικές της Υγείας, Αθήνα Δεκέμβριος 2013.
18. **H. Karanikas**, G. Koundourakis, I. Kopanakis and T. Mavroudakis: “A Temporal Text Mining Application in Competitive Intelligence”, in the Proc. “Data Mining and Knowledge Discovery” Stream in 23nd European Conference on Operational Research (EURO 2009), Bonn, Germany, July 5-8, 2009 (www.euro-2009.de).
19. T. Mavroudakis, P. Hahamis, L. Berntzen, N. Douzinas, M. Hanna, N. Farfas, N.Krikeli and **H. Karanikas**, “An Exploration of the Citizens Insight System: A Case Study”, Proceedings of the 9th European Conference on e-Government, London June 2009
20. **H. Karanikas** et al. "Intelligent Search Assistant: The MetaOn Approach ", accepted in *Proc. International Conference on Telecommunications & Multimedia*, Ierapetra-Crete, Greece, July 2008.

21. Al. Mikroyannidis, **H. Karanikas**, T. Mavroudakos and Babis Theodoulidis, "Web Usage Mining: The MetaOn Approach", accepted in *Proc. International Conference on Telecommunications & Multimedia (TEMU)*, Ierapetra-Crete, Greece, July 2008.
22. N. Pelekis, D. K. Iakovidis, E. Kotsifakos, **H. Karanikas** and I. Kopanakis. "Intuitionistic Fuzzy Clustering to Information Retrieval from Cultural Databases". In the Proceedings of the 22nd International Conference on Operational Research, Prague, Czech Republic, 2007
23. **H. Karanikas** and T. Mavroudakos, "Intelligent Search via Ontology Driven Metadata Analysis", Proceedings of the 10th Intl. Protégé Conference - July 15-18, 2007 - Budapest, Hungary
24. D.K. Iakovidis, E. Kotsifakos, N. Pelekis, **H. Karanikas**, I. Kopanakis, and Y. Theodoridis, Pattern-Based Retrieval of Cultural Heritage Images, in *Proc. Panhellenic Conference on Informatics (PCI)*, Patras, Greece, 2007, pp.443-452.
25. Θ. Πλιάκας, **X. Καρανίκας** και Θ. Μαυρουδάκης, "Διάχωρον - Διαχείριση Χωροχρονικών και Σηματολογικών Δεδομένων για την Τεκμηρίωση Ιστορικής Πληροφορίας", *Proc. Conf. on New Technologies and Marketing (NTM'07)* Ierapetra – Crete, Greece, May 2007.
26. **H. Karanikas** et al. "MetaOn - Ontology Driven Metadata Construction and Management for Intelligent Search in Text and Image Collections", in the Proceedings of the 17th International Conference on Database and Expert Systems Applications Pages: 450 – 454, (**DEXA 2006**, FlexDBIST-06), IEEE CSP, Crakow, Poland, September, 2006.
27. **H. Karanikas** et al. "Multimedia Annotation System for Intelligent Search", In the Proceedings of the International Conference on Telecommunications & Multimedia (TEMU'06), Heraklion-Crete, Greece, July 2006.
28. **H. Karanikas**, N. Pelekis, I. Kopanakis and T. Mavroudakos: "*Discovering Market Trends via Text Mining*", *Proc. Conf. on New Technologies and Marketing (NTM'05)* Ierapetra – Crete, Greece, May 2005.
29. **H. Karanikas** and T. Mavroudakos, Text Mining Software Survey, **RANLP 2005**, Text Mining Research Practice and Opportunities, Borovets – Bulgaria, Sept 2005
30. D.K. Iakovidis, N. Pelekis, **H. Karanikas**, E. Kotsifakos, I. Kopanakis, and Y. Theodoridis, "A Pattern Similarity Scheme for Medical Image Retrieval," in *Proc. IEEE International Conference on Information Technology in Biomedicine (ITAB)*, <http://medlab.cs.uoi.gr/itab2006/proceedings/Medical%20Imaging/99.pdf>, Oct. 2006.
31. **Karanikas H.**, Tjortjis C., Theodoulidis B., "An Approach to Text Mining using Information Extraction", *Proc. PKDD 2000*, (KMTA 2000), Lyon, France, Sept. 2000.
32. Andreas Gregoriades, Alistair G. Sutcliffe, **Haralampos Karanikas**: Evaluation of the SRA Tool Using Data Mining Techniques. **CAiSE Proceedings 2003**
33. I. Kopanakis, N. Pelekis, **H. Karanikas** and T. Mavroudakos: "Visual Techniques for the Interpretation of Data Mining Outcomes", 10th Panhellenic conf. on Informatics (**PCI'2005**) LNCS Proc., Volos, Greece, November 11-13, 2005.
34. Kopanakis, S. Karagiannis, N. Pelekis and **H. Karanikas**: "Bar Chart Form Visual Data Mining model for the representation of Association Rules", *Proc. of Annual Conf. on Telecommunications & Multimedia (TEMU'05)* Heraklion - Crete, Greece, June 2005.
35. Rinaldi et al. 2003c. Parmenides: an opportunity for ISO TC37 SC4? **ACL-2003: Workshop on Linguistic Annotation: Getting the Model Right**, pp.38-45. July 2003, Sapporo, Japan.
36. Fabio Rinaldi, James Dowdall, Michael Hess, Jeremy Ellman, Gian Piero Zarri, Andreas Persidis, Luc Bernard, **Haralampos Karanikas**. Multilayer annotations in Parmenides. **K-CAP2003** workshop on "Knowledge Markup and Semantic Annotation", October 25-26, 2003, Sanibel, Florida, USA.

Books/ Book chapters

1. **Karanikas H.**, "Text Mining to Support Business Intelligence – Analysing Business Data", Lambert Academic Publishing, ISBN: 978-3-8383-9728-3, 2010.
2. **N. Πολύζος, ..., X. Καρανίκας et al.**, «Έκθεση Αποτελεσμάτων ΥΥΚΑ και των Μονάδων του ΕΣΥ 2010», Εκδόσεις ΤΥΠΟ-ΑΧΑΙΚΗ, ISBN: 978-960-334-120-8, 2011.
3. **N. Πολύζος, Ε. Θηραΐος, X. Καρανίκας et al.**, «Έκθεση Αποτελεσμάτων ΥΥΚΑ και των Μονάδων του ΕΣΥ 2011», Εκδόσεις ΔΙΟΝΙΚΟΣ, ISBN: 978-960-334-121-5, 2012.

4. P Doupi, A Vuori, K Peltonen A Tuomi-Nikula, **H Karanikas**, Y Skalkidis, Chapter: “GENERAL REQUIREMENTS FOR CROSS-BORDER USE OF PATIENT REGISTRIES” Pages 70-81, Book: Methodological guidelines and recommendations for efficient and rational governance of patient registries. Publisher: National Institute of Public Health, Trubarjeva 2, 1000 Ljubljana, Slovenia, ISBN 978-961-6911-75-7, Ljubljana, 2015
5. **Χ. Καρανίκας**, Κεφάλαιο: «Μητρώα ασθενών: για μια αποτελεσματική και ορθολογική διαχείριση τους», σελ 61-67 στο Τεύχος για τη Ποιότητα και αποδοτικότητα στην ΠΦΥ – Αξιολόγηση και σχεδιασμός των παρεχόμενων υπηρεσιών ΠΦΥ, Τόμος 28 Τεύχος Κλινικά Φροντιστήρια – Ιατρική Εταιρεία Αθηνών, ISSN 1106-0336, Αθήνα 2016.

Thesis

1. *Karanikas H., “Information System Development: Computer System for a Disability Resource Centre”, M.Sc. Thesis, UMIST, 1998*
2. *Karanikas H., “A Temporal Text Mining Framework for Business Intelligence”, PhD Thesis, University of Manchester, 2008*
3. Karanikas H. and B. Theodoulidis, "*Knowledge Discovery in Text and Text Mining Software*", TR no. TR-02-1, CRIM (Center of Research in Information Management), UMIST, Manchester, UK, 2002.
4. Haralampos Karanikas, Myra Spiliopolou, and Babis Theodoulidis. *Parmenides TA, system architecture and technical specification. Parmenides Deliverable #D22, UMIST, Manchester, 2003.*

Language Skills (indicate only languages in which you can work):

Greek, English