

CURRICULUM VITAE

NODARAKIS NIKOLAOS

PERSONAL INFORMATION

Date of Birth	8 June 1987
Place of Birth	Marousi Attikis, Greece
Marital Status	Unmarried
Address	Emmanouil Roidi 61, 26442, Patras, Greece
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EDUCATION

2012-Present	PhD Candidate in the Department of Computer Engineering and Informatics at the University of Patras PhD Thesis Title: "Efficient Data Management Algorithms and Techniques on the Web" Supervisor: Tsakalidis Athanasios, Professor
2010-2012	Master in Science in "Computer Science and Engineering" from Computer Engineering and Informatics Department at the University of Patras. Master Thesis Title: "A Technique for Dynamic Adjustments of Applications on Android Mobile Devices" Supervisor: Tsakalidis Athanasios, Professor
2005-2010	Diploma of Computer Engineering and Informatics at the University of Patras. Diploma Thesis Title: "Development of Geographical Information System (GIS) on Android Mobile Devices" Supervisor: Tsakalidis Athanasios, Professor
1999-2005	Secondary education (Peristeri Attikis, Greece)

LANGUAGES

Greek (Native speaker)
English (First Certificate in English, University of Cambridge)

RESEARCH INTERESTS

Distributed Systems
Cloud Computing and Big Data Management
Web Technologies, Design and Implementation of Web Applications
Sensor Networks

Mobile Application Design and Development
Performance Analysis of Web Applications
Design of Web Services

KNOWLEDGE-SKILLS

Programming skills: C, C++, C#, .NET, Java, Python, PHP, JavaScript, jQuery, CSS3, HTML5, ASP, Unix Shell & Bash Scripting, SQL

Experience in web application development in .NET, Java and PHP

Mobile Application Development:

- Android Platform
- Windows Mobile Platform

Development of cloud applications using Hadoop, HBase, Spark framework

Programming isense technology sensors

Matlab: linear algebra, scientific computation, simulation of telecommunication systems

Tools and Applications: Visual Studio, SQL Server Management Studio, Drupal, Joomla, WordPress, NopCommerce, Eclipse, CodeIgniter, XAMPP, Microsoft Office, Latex and other Windows and Linux Applications

Operation Systems: GNU/Linux, Microsoft Windows

APPLICATIONS

MyMapInfo: MyMapInfo is a free application that gives the user the ability to get directions between an origin and a destination that he will provide as input. Directions can be displayed as a series of steps or as a route drawn on the map and they can be stored for offline access. Also, the application gives the user the ability to store point of interests on the map, share them with his friends and get directions from/to them.

Link:

<https://play.google.com/store/apps/details?id=com.nodarakis.MyMapInfo>

Χρυσό Ταμείο: An application developed on Android environment and constitutes an RSS Feed of www.xrysotameio.gr web page. The user can find information about latest football games' prognostics and share the articles on Facebook and Twitter.

Link:

<https://play.google.com/store/apps/details?id=com.nodarakis.XrysoTameio>

INTERNATIONAL REFEREED JOURNALS

- [J1] Paschou, M., Papadimitriou, C., Nodarakis, N., Korezelidis, K., Sakkopoulos, E., Tsakalidis, A.: Enhanced Healthcare Personnel Rostering Solution using Mobile Technologies. *Journal of Systems and Software*, 2014.
- [J2] Gerolymatos, P., Sioutas, S., Nodarakis, N., Panaretos, A., Tsakalidis, K.: SMaRT: A novel framework for addressing range queries over nonlinear trajectories. *Journal of Systems and Software*, 2015.
- [J3] Nodarakis, N., Pitoura, E., Sioutas, S., Tsakalidis, A., Tsoumakos, D., Tzimas, G.: kdANN+: A Rapid AkNN Classifier for Big Data. *Transactions on Large Scale Data and Knowledge Centered Systems (TLDKS)*, 2016 (1 citation)

INTERNATIONAL REFEREED CONFERENCES/WORKSHOPS

- [C1] Paschou, M., Nodarakis, N., Tsakalidis, A., Sakkopoulos, E.: Mobile Healthcare Systems: Generating Dynamic Smartphone Apps to Serve Multiple Medical Specializations. *6th International Conference on Health Informatics (HealthInf)*, Barcelona, Spain, 11-14 February,

2013. (3 citations)

- [C2] Nodarakis, N., Pitoura, E., Sioutas, S., Tsakalidis, A., Tsumakos, D., Tzimas, G.: Efficient Multidimensional AkNN Query Processing in the Cloud. *25th International Conference on Database and Expert Systems Applications (DEXA)*, Munich, Germany, 1-4 September, 2014. (3 citations)
- [C3] Ioannou, Z-M., Nodarakis, N., Sioutas, S., Tsakalidis, A., Tzimas, G.: Mining Biological Data on the Cloud – A MapReduce Approach. *3rd Mining Humanistic Data Workshop (MHDW 2014)*, Rhodes, Greece, 19-21 September, 2014.
- [C4] Kouis, D., Vassilakaki, E., Vraimaki, E., Cheilakou, E., Christiana-Saint, A., Sakkopoulos, E., Viennas, E., Pikoulis M. E.-V., Nodarakis, N., Achilleopoulos, N., Zervos, S., Giannakopoulos, G., Kyriaki-Manessi, D., Tsakalidis, A., Kou, M.: Standardizing NDT& E Techniques and Conservation Metadata for Cultural Artifacts. *MTSR 2015*, Manchester, UK, 9-11 September, 2015
- [C5] Nodarakis, N., Sioutas, S., Gerolymatos, P., Tsakalidis, A., Tzimas, G.: Convex Polygon Planar Range Queries on the Cloud: Grid vs Angle-based Partitioning. *1st International Workshop on Algorithmic Aspects on Cloud Computing (Algocloud 2015)*, Patras, Greece, 14-15 September, 2015.
- [C6] Nodarakis, N., Sioutas, S., Tsakalidis, A., Tzimas, G.: Large Scale Sentiment Analysis on Twitter with Spark. *1st International Workshop on Multi-Engine Data AnaLytics (MEDAL 2016 – EDBT-ICDT Workshops)*, Bordeaux, France, 15 March, 2016
- [C7] Nodarakis, N., Sioutas, S., Tsakalidis, A., Tzimas, G.: MR-SAT: A MapReduce Algorithm for Big Data Sentiment Analysis on Twitter. *12th International Conference on Web Information Systems and Technologies*, Rome, Italy, 23-25 April, 2016

SESSION CHAIR

- [S1] *25th International Conference on Database and Expert Systems Applications (DEXA)*, Munich, Germany, 1-4 September, 2014. Session 12B: Business Applications

CONFERENCE ATTENDANCE

1st National Scientific Student Informatics Conference (EURIKA 2007)
6th International Conference on Health Informatics (Barcelona 2013)
25th International Conference on Database and Expert Systems Applications (Munich 2014)
ALGO 2015 (Patras 2015)

REVIEWER IN CONFERENCES & JOURNALS

- 2015 Reviewer in the Engineering Applications of Artificial Intelligence Journal, Elsevier (<http://www.journals.elsevier.com/engineering-applications-of-artificial-intelligence/>)
- Reviewer in the 4th Mining Humanistic Data Workshop (MHDW 2015) organized in the 16th Engineering Applications of Neural Networks Conference (EANN2015), 25 - 28 September, 2015, Island of Rhodes, Greece (http://delab.csd.auth.gr/eann2015/workshops.php?workshop_id=1)
- Reviewer in the 1st International Workshop on Algorithmic Aspects of Cloud Computing (ALGO CLOUD 2015) organized in the ALGO 2015 Conference, 14 - 18 September, 2015, Patras, Greece (<http://algo2015.upatras.gr/algocloud/>)

WORK EXPERIENCE/ PARTICIPATION IN RESEARCH/DEVELOPMENT

PROJECTS

01/01/2015-Present	Web Portal of Graphics, Multimedia and GIS Laboratory (MMLAB) of the Computer Engineering & Informatics Department of the University of Patras : Content and technical support
01/07/2013-30/09/2015	(DOC-CULTURE) Development of an Integrated Information Environment for Assessment and Documentation of Conservation Interventions to Cultural Works/Objects with Non Destructive Techniques (NDTs)
04/09/2013-30/09/2015	(Thesaurus) Treasury for Adult Education: Participant and organizer of various events
01/01/2014-30/9/2015	(Cloud9) A Multidisciplinary, Holistic Approach to Internet-Scale Cloud Computing
11/07/2013-31/21/2013	(eModia) Functional/Operational Specifications of Clinic Genomic Informatics Technologies Environment
09/01/2013-30/06/2013	(HotelAuctions) Development of Electronic Reservation System for Tourist Accommodation through Online Auctions

TEACHING ASSISTANT

2007-2008	<ul style="list-style-type: none">• Programming in Symbolic Language Assembly (undergraduate course in the department of Computer Engineering and Informatics of the University of Patras)• Electronics 1 Laboratory (undergraduate course in the department of Computer Engineering and Informatics of the University of Patras)
2009-2010	<ul style="list-style-type: none">• Programming in Symbolic Language Assembly (undergraduate course in the department of Computer Engineering and Informatics of the University of Patras)
2010-2011	<ul style="list-style-type: none">• Introduction to Procedural Programming Laboratory (undergraduate course in the department of Computer Engineering and Informatics of the University of Patras)• Object Oriented Programming 1 Laboratory (undergraduate course in the department of Computer Engineering and Informatics of the University of Patras)
2011-2012	<ul style="list-style-type: none">• Introduction to Procedural Programming Laboratory (undergraduate course in the department of Computer Engineering and Informatics of the University of Patras)• Object Oriented Programming 1 Laboratory (undergraduate course in the department of Computer Engineering and Informatics of the University of Patras)
2012-2015	<ul style="list-style-type: none">• Advanced Information Systems (undergraduate course in the department of Computer Engineering and Informatics of the University of Patras)
2012-2015	Teaching assistant in the postgraduate course “Advanced Web Technology Systems” of the Master in Science Program “Technologies and Broadband Application Systems and Services” of the Computer Engineering department of Technological Educational Institute of Western Greece.
2012-2015	Diploma theses supervision in the Computer Engineering and Informatics Department at the University of Patras. Supervisor: Tsakalidis Athanasios, Professor

SUPERVISION OF DIPLOMA THESES

Completed	<p>“Development of interactive questions/answers game through Bluetooth technology on Android Mobile Devices”, Lignos Stefanos</p> <p>“Development of interactive questions/answers game through WiFi Direct technology on Android Mobile Devices”, Tourna Diamanto</p> <p>“Development of social mobile application on Android”, Tomaras Artemios</p> <p>“Development of mobile application for sending/receiving orders on the Android Platform”, Koukougianis Stavros</p> <p>“Development of weekly program management and tab score application for univesity students on Android”, Koukilas Georgios</p> <p>“Development of tour guide application of the city of Patras on the Android platform”, Pipini Maria</p> <p>“Study and implementation of efficient data mining algorithms on cloud environments”, Eftaxia Panagiota</p>
On going	<p>“Development of tour guide application of the city of Patras on Windows Phone platform using Bing Maps technology”, Diatsigkos Evaggelos</p> <p>“Development of instant messaging application using Bluetooth and push notification technology on Android platform”, Pappas Athansios</p>

PARTICIPATION IN SCIENTIFIC PROFESSIONAL BODIES

Member of Technical Chamber of Greece, reg. Number 128954 since March 2011

OTHER EXPERIENCE/ACTIVITIES

Member of Graphics, Multimedia and GIS Laboratory (MMLAB) of the Computer Engineering & Informatics Department of the University of Patras (2010 - present).

Chess

Basketball

Ping pong

Cycling
