Papadopoulos S. Nikolaos

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Skills and Expertise

- Serious Games development, exploring innovative HCI techniques using Microsoft Kinect sensor
- Experience in game development using Unity3D game platform
- Experience in 3D animation development using Autodesk Motion Builder
- Web and mobile applications development
- Requirement Analysis
- Use case specification
- Usability Testing
- Technical Documentation

- Desktop applications development
- Website and Web-GIS development
- Database design and development
- Experience in programming: C++, C#, WPF, Asp.NET, HTML, CSS, PHP, Java, JavaScript, Python, QT, ArcObjects
- Experience in GIS-Web-GIS tools: ESRI ArcGIS Desktop, Server, Google Maps API, QGIS
- Experience in CMS (Drupal, Wordpress, Django)
- Experience in RDBMS: MySQL, NoSQL
- Knowledge of MS Windows Server/Linux

Research Interests

- 3D capturing and reconstruction
- Augmented reality
- Computer Vision algorithms
- Virtual environments

Professional Experience

• Research Associate (September 2013 – Presence)

Institute for Mediterranean Studies, Foundation of Research and Technology (FORTH), Laboratory of Geophysical – Satellite Remote Sensing and Archaeo-environment, Rethymno, Crete, Greece

Responsibilities & Achievements:

Desktop application development, GIS/WebGIS applications development, GeoDatabases design and development, Online Database systems implementation and administration, Geospatial data analysis and processing, Virtual-Reality applications development, Mobile applications development

Participation in R&D Projects:

- STORM: Safeguarding Cultural Heritage through Technical and Organizational Resources Management - HORIZON 2020 (2016 – 2020)
- AGROSTRAT (LIFE11 ENV/GR/951) Sustainable strategies for the improvement of seriously degraded agricultural areas: the example of Pistachia vera L. (2012 – 2016)
- DynByzCrete: Recapturing the Dynamics of the Early Byzantine Settlements in Crete: Old problems - New Interpretations through an Interdisciplinary Approach (2014 – 2015)
- KRIPIS POLITEIA: Culture-Technology: New technologies in research, study, documentation and accessibility in the information of items and monuments of cultural heritage (2012 – 2015)
- KRIPIS PEFYKA: Environment and Natural Disasters: New methods to evaluate and improve the environmental quality and encounter the natural disasters (2012 – 2015)

Junior software developer for web and android applications (October 2012 – August 2013)
 Enverse, Arxiepiskopou Makariou 36, Heraklion, Crete, 71202

Educational background

- M.Sc. in Computer Engineering July 2015
 Department of Informatics Engineering, Technological Educational Institute of Crete, Heraklion, Greece
 Grade: 8.69
 Thesis: Exergames for Parkinson's disease patients using Microsoft Kinect
- B.Sc. in Computer Science March 2012
 Department of Computer Science, University of Crete, Heraklion, Greece
 Grade: 6.72
 Thesis: Local memory access analysis of irregular applications on NUMA multi-cores

Languages

- Greek: Native proficiency
- English: First Certificate in English (FCE) University of Cambridge
- Italian: Certificato Medio

Scientific Publications

- Doula, M.K., Kouloumbis, P., Sarris, A., Hliaoutakis, A., Papadopoulos, N. S., Kydonakis, A.: Reuse of Sewage Sludge on Soil: Terms, Preconditions and Monitoring. In Tzortzakis, N. (ed.): Municipal Solid Waste: Management Strategies, Challenges and Future Directions. NOVA SCIENCE, 2017 (in press)
- Pachoulakis, Ioannis, Nikolaos Xilourgos, Nikolaos Papadopoulos, and Anastasia Analyti: Enrichment of a Kinect-based Physiotherapy and Assessment Platform for Parkinson's disease Patients. Advances in Image and Video Processing 5, no. 1 p.31, 2017
- Pachoulakis, Ioannis, Nikolaos Xilourgos, Nikolaos Papadopoulos, and Anastasia Analyti.: A Kinect-Based Physiotherapy and Assessment Platform for Parkinson's disease Patients. Journal of medical engineering, 2016.
- Pachoulakis, Ioannis, and Nikolaos Papadopoulos.: Exergames for Parkinson's Disease patients: The balloon goon game. In Telecommunications and Multimedia (TEMU), 2016 International Conference on, pp. 1-6. IEEE, 2016.
- Doula, M.K., Sarris, A., Hliaoutakis, A., Kydonakis, A., Papadopoulos, N. S. and Argyriou, L.: Building a strategy for soil protection at local and regional scale—the case of agricultural wastes landspreading. Environmental monitoring and assessment, 188(3), pp.1-14, 2016.
- M. K. Doula, A. Sarris, N. S. Papadopoulos, A. Hliaoutakis, A. Kydonakis, L. Argyriou, S.Theocharopoulos, Ch. Kolovos,: A Software for soil quality conservation at organic waste disposal areas: The case of olive mill and pistachio wastes. In European Geosciences Union-General Assembly, Vienna, Austria, 17-22 April 2016.
- M.K.Doula, A.Hliaoutakis, N. S. Papadopoulos, A.Kydonakis, L.Argyriou and A.Sarris,: Management and monitoring of agricultural waste disposal by local and regional authorities. In Procs. of the 4th International Conference on Sustainable Solid Waste Management, Limassos, Cyprus, 23-25 June 2016.
- A. Hliaoutakis, N.S. Papadopoulos, A.Kydonakis, L. Argyriou, M.K. Doula, A. Sarris,: Web GIS-based application for agricultural areas management – the case of pistachio cultivation. In Procs. of the 4th International Conference on Sustainable Solid Waste Management, Limassos, Cyprus, 23-25 June 2016.

- Pachoulakis, Ioannis, Nikolaos Papadopoulos, and Cleanthe Spanaki.: Are Game Platforms suitable for Parkinson Disease patients?. In Proceedings of the 9th International Conference on New Horizons in Industry, Business and Education (NHIBE 2015), Skiathos Island, Greece, 27-29 August 2015.
- Pachoulakis, I., Papadopoulos, N. and Spanaki, C.,: Parkinson's disease patient rehabilitation using gaming platforms: lessons learnt. International Journal of Biomedical Engineering and Science (IJBES), Vol. 2, No. 4, October 2015.
- Argyriou, L., Papadopoulos, S. N.,: Mixed reality applications, innovative 3d reconstruction techniques & GIS data integration for cultural heritage. In Sarris, A. ed., 2015, Best Practices of GeoInformatic Technologies for the Mapping of Archaeolandscapes. Archaeopress Archaeology. Archaeopress Archaeology, Archaeopress Publishing Ltd. England, Oxuniprint, Oxford. 2015. ISBN 9781784911621. Pp. 149-158.