Amalia Foka

CONTANT INFO

Date of Birth: 11/03/1976

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EDUCATION

2005 PhD in Computer Science

University of Crete, Computer Science Department, Greece

Dissertation Title: Predictive Autonomous Robot Navigation

Supervisor: Panos Trahanias

1999 MSc in Advanced Control

Advanced Control System Centre, Department of Electrical Engineering & Electronics

University of Manchester Institute of Science and Technology (UMIST), UK

1998 BEng in Computer Systems Engineering

Department of Electrical Engineering & Electronics and Department of Computation

University of Manchester Institute of Science and Technology (UMIST), UK

ACADEMIC
POSITIONS

2014- present Assistant Professor

University of Ioannina

Department of Fine Arts & Art Sciences

2014- 2016 Collaborating Staff Member

Computer Technology Institute and Press "Diophantus" (CTI)

Greek School Network and Networking Technologies Directorate (GSN-NTS)

2005 - 2014 Appointed Lecturer

Technological Educational Institute of Western Greece

2005 - 2013 Appointed Assistant Professor

University of Patras

Department of Computer Engineering & Informatics

2009 - 2010 Post-graduate Course Appointed Assistant Professor

University of Peloponnese

MSc in Computer Science & Technology

2005 - 2008 Appointed Assistant Professor

University of Ioannina

Department of Computer Science

RESEARCH INTERESTS	Artificial Intelligence; Robotics; Digital Art; Generative Art; Interactive Media; Neural Networks; Genetic Algorithms.

HONORS AND AWARDS	1999-2005 Institute of Computer Science-FORTH Scholarship
	1998-1999 Engineering and Physical Sciences Research Council (EPSRC) Scholarship
	1998-1999 UMIST Academic Development and Research Committee (ADRC) Scholarship

RESEARCH EXPERIENCE	**VIMSEN** Virtual Microgrids for Smart Energy Networks
	STIRIZO Horizontal project to support schools, teachers and students on the way to DIGITALSCHOOL. New services of GSN Network and support of DIGITAL SCHOOL
	EVERGROW Ever-growing global scale-free networks
	DRIVER Integrated System for Assistive Navigation of Robotic Wheelchair Platforms
	TOURBOT Interactive Museum Tele-presence through Robotic Avatars
	WEBFAIR Web Access to Commercial Fairs through Mobile Agents
	MUSCLE Multimedia Understanding through Semantics, Computation and Learning

PROFESSIONAL SERVICE	**2016-2017** EU Expert Evaluator for Horizon 2020 project proposals
	2011-2014 Evaluation of Investment Projects under the New Investment Law (3908/2011) - Member of the National Registry of Certified Evaluators (NRCE - EMPA)
	03/2010-04/2010 EYSED-ETAK (Special Office of the Greek Ministry of Education for Research, Techonogical Development and Innovation)
	Evaluator of applications to the action Collaboration.
	03/2010 State Scholarship Foundation
	Evaluator of applications to the action Grundtvig.
	Technical Reviewer,
	IEEE Transactions on Neural Networks
	IEEE International Conference on Intelligent Robots and Systems
	IEEE International Conference on Robotics and Automation
	IEEE Int. Symposium on Approximate Dynamic Programming and Reinforcement Learning
	Robotics and Autonomous Systems Journal, Elsevier
	Information Sciences Journal, Elsevier
	Soft Computing Journal, Springer
	European Signal Processing Conference (EUSIPCO)

TEACHING EXPERIENCE	**2014-present** Department of Fine Arts & Art Sciences, University of Ioannina

Computer Science: Introduction to Programming & Computer Technology, Multimedia Applications, Computer Science for the Arts, Digital Art Laboratory II.

2005-2013 Department of Computer Engineering & Informatics, University of Patras

Introduction to Software Programming (C); Object Oriented Programming (Java), Object Oriented Programming II (C++), Databases.

2009-2010 Msc in Computer Science & Technology, University of Peloponnese

Computer Graphics & Visualization, Artificial Intelligence.

2005-2008 Department of Computer Science, University of Ioannina

Introduction to Programming (C); Digital Design; Robotics.

2005-2014 Technological Educational Institute of Western Greece

Databases, ERP Systems, E-commerce, Computer Graphics, Robotics, Computer Programming, Computer Networks.

DISSERTATIONS   **Ph.D. Thesis.** Predictive Autonomous Robot Navigation, University of Crete, 2005. (6 citations)

M.Sc. Dissertation. Time Series Prediction Using Evolving Polynomial Neural Networks UMIST, 1999. (21 citations)

B.Eng. Dissertation. Natural Image Segmentation using Pyramid Structures, UMIST, 1998.

PUBLICATIONS

1. A. Foka, How would a School of Fine Arts curriculum be formed with the problem-solving logic of an engineer?, International Scientific Conference: For a School of Visual Arts in the 21st Century, Florina, Greece, 12-14 May 2017.

2. A. Foka, Who takes command?, in Thanasis Moutsopoulos (Ed.), Art — Non Art / RE-culture 4, Pikramenos, 2016, ISBN: 9789606628832.

3. A. Foka, Predictive Autonomous Robot Navigation: POMDPs for robot navigation with integrated human motion prediction, LAP LAMBERT Academic Publishing, September 14, 2016, ISBN: 3659880078.

4. A. Foka and P.E. Trahanias, Probabilistic Autonomous Robot Navigation in Dynamic Environments with Human Motion Prediction, International Journal of Social Robotics, Vol. 2, No. 1, pp. 74-94, 2010. (42 citations)

5. A. Foka and P.E. Trahanias, Real Time Hierarchical POMDPs for Autonomous Robot Navigation, Robotics and Autonomous Systems (RAS) Journal, Vol. 55, Issue 7, pp. 561-571, 2007. (97 citations)

6. P. Liatsis, A. Foka, J.Y. Goulermas and L. Mandic, Adaptive polynomial neural networks for time series forecasting, Int. Symp. ELMAR'07, September 12-14, Zadar, Croatia, pp.35-39, 2007. (6 citations)

7. A. Foka and P.E. Trahanias, Real Time Hierarchical POMDPs for Autonomous Robot Navigation, IJCAI Workshop Reasoning with Uncertainty in Robotics, Edinburgh, Scotland, 30 July 2005. (3 citations)

8. A. Foka and P.E. Trahanias, Predictive Control of Robot Velocity to Avoid Obstacles in Dynamic Environments, IROS 2003, IEEE/RSJ Intl. Conf. on Intelligent Robots and Systems, Las Vegas, USA, Oct. 27 - 31, 2003. (35 citations)

9. A. Foka and P.E. Trahanias, Predictive Autonomous Robot Navigation, IROS 2002, IEEE/RSJ Intl. Conf. on Intelligent Robots and Systems, Lausanne, Switzerland, Sep.30-Oct.4, 2002. (117 citations)