

# ***Dr CHRISTODOULOS LYTRIDIS***

**PhD Msc Beng**

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## P E R S O N A L I N F O R M A T I O N

Marital status: Single  
Nationality: Greek  
Date of Birth: 09/08/1978  
Place of Birth: Thessaloniki, Greece

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## E D U C A T I O N

### **University of Portsmouth**

#### **Department of Electrical & Electronic Engineering**

*BEng (Hons) in Electronic and Computer Engineering*

*July 1999*

2.1 Degree Classification

Final Year Project: *“Generation of three dimensional graphics superimposed on video capture”*

Creation of a graphical user interface in Visual C++, where basic solid shapes are combined to produce three dimensional models of moving ships, which are superimposed on video feed of port activity.

### **University of Portsmouth**

#### **Department of Electrical & Electronic Engineering**

*MSc in Mobile Robotics*

*September 2000*

Project: *“Optimisation of a fuzzy rule based controller using genetic algorithms”*

Investigation of the use of fuzzy logic as a way to establish the intelligent behaviour of a set of mobile robots while optimizing their performance using a genetic algorithm in a simulation of robot-following behaviour written in Visual C++.

### **University of Portsmouth**

#### **Department of Electronic & Computer Engineering**

PhD in Mobile Robotics

*November 2004*

Thesis title: *“Co-operative robotic search strategies for odour source localisation”*

Development of efficient and robust cooperation strategies for the control of multi-robot teams to demonstrate the advantages of multi-robot systems in carrying out cooperative searching tasks through simulation studies as well as using mobile robotic platforms to validate the theoretical results.

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W O R K   E X P E R I E N C E

**University of Portsmouth**

*February 2001 - June 2004*

Internet Applications Laboratory Supervision (First and Second Year Units)

- Introduction to Microsoft Office applications (Excel, Access, Powerpoint)
- Web Design: Principles, HTML, hyperlinks, tables, forms, frames, images and graphics. Cascading-style sheets. Use of the web page design software Dreamweaver.
- CGI scripting using the PERL programming language
- Server-side scripting using PHP
- Introduction to relational databases, design principles and database-driven websites using PHP/MySQL

**University of Portsmouth**

*October 2001 - June 2004*

C Programming Laboratory Supervision (First Year Units)

- Introduction to the UNIX operating system
- Introduction to C programming
- Advanced C programming

**University of Portsmouth**

*February 2002 - June 2002*

Lecturer of the Robotic Navigation postgraduate level course  
MSc in Robotics, Department of Electronic and Computer Engineering.

- Fundamentals of robotic navigation
- Fundamental principles of robotic locomotion.
- Sensor technologies
- Biologically inspired navigation

**University of Portsmouth**

*September 2004 - November 2004*

Development of a computer-based system for the control of multiple smelling robots for demonstration purposes.

**Technological Educational Institute of Kavala** *September 2005 - February 2006*

Software Engineering Laboratory Supervision  
Department of Industrial Informatics  
Division of Computing Systems

- Software design
- Object-oriented analysis and design
- Formal specification
- CASE tools

**Technological Educational Institute of Kavala**

*October 2007 - Today*

Artificial intelligence Laboratory Supervision  
Department of Industrial Informatics  
Division of Computing Systems

- Artificial intelligence
- Logic programming
- Prolog programming language

**Technological Educational Institute of Kavala**

*February 2008 – June 2008*

External collaborator. Digitization and publishing on a moodle platform of the following courses:

- Robotics
- Artificial intelligence

**Technological Educational Institute of Kavala**

*October 2008 – September 2010*

Scientific collaborator, Department of Industrial Informatics

- Computer graphics

**Technological Educational Institute of Kavala**

*October 2009 – July 2011*

Scientific collaborator, Department of Information Management

- Structured programming
- Introduction to informatics
- Object oriented programming

**Technological Educational Institute of Kavala**

*October 2012 – February 2013*

Scientific collaborator, Department of Industrial Informatics

- Robotics

**Eastern Macedonia and Thrace Institute of Technology**

*February 2012 – Today*

Scientific collaborator, Department of Industrial Informatics

- Educational Technologies
- Programming Techniques

External collaborator. Project: «Open academic courses at the Eastern Macedonia and Thrace Institute of Technology»

- Digitisation of courses in the Moodle platform
- Development of software for the conversion of academic digital courses between platforms.

**Eastern Macedonia and Thrace Institute of Technology**

*July 2015 – November 2015*

External collaborator. Project: «Lifelong learning programmes for graduates - "Mobile applications development" seminar»

- Coordination and support for the programme
- Preparation and development of learning material
- Distance learning teaching in the Moodle platform and in person teaching in laboratory sessions.

**Eastern Macedonia and Thrace Institute of Technology**     *February 2016 - Today*

Scientific collaborator, Department of Informatics and Computer Engineering

- Programming in C
- Educational Technologies

**Eastern Macedonia and Thrace Institute of Technology**     *February 2016 - Today*

External collaborator, Department of Informatics and Computer Engineering  
MSc in Advanced Technologies in Informatics and Computers

- Web Programming
- Applications Development

**Eastern Macedonia and Thrace Institute of Technology**     *February 2016 - Today*

External collaborator, Department of Forestry and Natural Environment Management  
MSc in Analysis and Management of Manmade and Natural Disasters

- Lecture videos editing and cataloguing

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P U B L I C A T I O N S

- [1] Virk, G. S., Lytridis, C., Kadar, E. E., and Fisher, P., "Cooperative target searching in a diffusion field," *European Control Conference (ECC 2001)*, Porto, Portugal, 2001.

- [2] Virk, G. S., Lytridis, C., Fisher, P., and Kadar, E. E., "Co-operative Navigation in Unstable Diffusion Fields," *Proceedings of the 4th International Conference on Climbing and Walking Robots (CLAWAR 2001)*, Karlsruhe, Germany, pp. 471-479, 2001.
- [3] Lytridis, C., Virk, G. S., Kadar, E. E., and Fisher, P., "Gas sensors for mobile robot navigation," *Proceedings of the 5th International Conference on Climbing and Walking Robots (CLAWAR 2002)*, Paris, France, pp. 233-239, 2002.
- [4] Lytridis, C., Virk, G. S., Rebour, Y., and Kadar, E. E., Odour-Based Navigational Strategies for Mobile Agents. *Adaptive Behaviour*, vol. 9, pp. 171-187, 2002.
- [5] Lytridis, C., Virk, G. S., Kadar, E. E., and Fisher, P., "Odour Source Localization Using Co-Operating Mobile Robots," *Proceedings of the 6th International Conference on Climbing and Walking Robots (CLAWAR 2003)*, Catania, Italy, pp. 967-974, 2003.
- [6] Lytridis, C., Virk, G. S., Kadar, E. E., and Fisher, P., "Cooperative smell based navigation for mobile robots," *Proceedings of the 7th International Conference on Climbing and Walking Robots (CLAWAR 2004)*, Madrid, Spain.
- [7] Virk, G.S., Kadar, E. E. and Lytridis, C. "Olfactory based navigation for mobile robots," DSTL Conference, 2004.
- [8] Lytridis, C., Virk, G. S., Kadar, E. E., "Search performance of a multi-robot team in odour source localisation," *Proceedings of the 8th International Conference on Climbing and Walking Robots (CLAWAR 2005)*, London, UK.
- [9] Lytridis, C., Kadar, E. E., and Virk, G. S., A systematic approach to the problem of odour source localisation. *Autonomous Robots*, vol. 20, 3, pp. 261-276, 2006.
- [10] Kadar, E. E., Virk, G. S., and Lytridis, C., "In search of principles of odour source localisation," *7th International Conference on Climbing and Walking Robots (CLAWAR 2007)*, Singapore.
- [11] Lytridis, C., and Tsinakos, A., Using a commercial mobile application as a mobile learning platform, *13<sup>th</sup> World Conference on Mobile and Contextual Learning*, Istanbul, Turkey, 2014.
- [12] Kazanidis, I., Lytridis, C., and Tsinakos, A., Two fold evaluation of academic open courses in STEM education. The case of TEI EMT. *World Engineering Education Forum - WEEF 2015*, Florence, Italy, 2015.
- [13] Lytridis, C. and Tsinakos, A. Blended Learning in a Continuing Education Short Course at EMATTECH, *1st International Association for Blended Learning Conference (IABL2016)*, Kavala, Greece, 2016.
- [14] Mpakali, I., Lytridis, C. and Pogaridis, D. Dissemination of Educational Robotics in the Schools of the Eastern Macedonia and Thrace Region of Greece, *1st International Association for Blended Learning Conference (IABL2016)*, Kavala, Greece, 2016.
- [15] Lytridis C., Kazanidis I. and Tsinakos A. (2016), The Open Courses Project at the Eastern Macedonia and Thrace Institute of Technology, Chapter 50, State-of-the-Art and Future Directions of Smart Learning, Lecture Notes in Educational Technology, Yanyan Li, Maiga Chang, Milos Kravcik, Elvira Popescu, Ronghuai

Huang, Kinshuk, Nian-Shing Chen, ISSN 2196-4971, ISBN 978-981-287-868-7, DOI 10.1007/978-981-287-868-7\_50, Springer, pp. 415-421.

- [16] Lytridis C. and Tsinakos A., (2017). mLearn: A Mobile Learning Platform, *Journal of Engineering Science and Technology Review*, Volume 10, Issue 4, pp. 81-86, ISSN:1791-2377.
- [17] Kazanidis I., Sotiriadis G., Lytridis C., Tsinakos, A. (2017). Using augmented reality application for children education in natural disasters. *Novel approaches in Risk, Crisis and Disaster Management*, Chapter 10, pp. 337-354.
- [18] Kazanidis, I., Tsinakos, A., Lytridis, C., Teaching Mobile Programming Using Augmented Reality and Collaborative Game Based Learning. In: Auer ME, Tsiatsos T, editors. *Interactive Mobile Communication Technologies and Learning*. Cham: Springer International Publishing; 2018. p. 850–9.
- [19] Lytridis, C., Tsinakos, A., Kazanidis, I., ARTutor - An Augmented Reality Platform for Interactive Distance Learning. *Education Sciences*, vol. 8, 1:6, 2018.
- [20] Lytridis, C., Vrochidou, E., Kabourlasos, V., Emotional Speech Recognition toward Modulating the Behavior of a Social Robot, *Proceedings of the 2018 JSME Conference on Robotics and Mechatronics*, Kitakyushu, Japan, June 2-5, 2018.
- [21] Lytridis, C., Vrochidou, E., Chatzistamatis, S., Kabourlasos, V., Social Engagement Interaction Games between Children with Autism and Humanoid Robot NAO, *9th International Conference on European Transnational Educational (ICEUTE'18)*, San Sebastian, Spain, 2018.
- [22] Lytridis, C., Tsinakos, A., Kazanidis, I., Enhancing educational books with augmented reality using the ARTutor platform, *Annual conference of the International Council of Educational Media (ICEM 2018)*, Tallinn, Estonia, 2018, In press.
- [23] Lytridis, C., Vrochidou, E., Najoua, A., Salonidis, M., Kabourlasos, V., NAO as a self-regulating didactic mediator: the case of teaching/learning numeracy, *Split, Croatia*, 2018, In press.
- [24] Lytridis, C., Najoua, A., Sotiropoulou, K., Kabourlasos, V., A survey of social robots as actors for entertainment and education, *Split, Croatia*, 2018, In press.

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#### A N D R O I D   A P P L I C A T I O N S   D E V E L O P M E N T

- «Thassos-Agenda»  
[https://play.google.com/store/apps/details?id=com.thassos\\_agenda](https://play.google.com/store/apps/details?id=com.thassos_agenda)
- «Καθημερινός Τύπος»  
[https://play.google.com/store/apps/details?id=com.lytridis.k\\_typos2](https://play.google.com/store/apps/details?id=com.lytridis.k_typos2)
- «Aris Fans - Emperor.gr»  
<https://play.google.com/store/apps/details?id=com.lytridis.emperor.gr>
- «Φεστιβάλ Βιομηχανικής Πληροφορικής i2fest»  
<https://play.google.com/store/apps/details?id=com.lytridis.i2fest>

- «Kavala GetApp»  
<https://play.google.com/store/apps/details?id=com.lytridis.kavalagetapp>
- «Μυροβόλος Άνοιξις»  
<https://play.google.com/store/apps/details?id=com.lytridis.myrovolosanoixis>
- «Βρες Μάστορα Βρες Τεχνικό – vmvclub.gr»  
<https://play.google.com/store/apps/details?id=com.lytridis.vresmastoravrestexniko>
- «Dog Care»  
<https://play.google.com/store/apps/details?id=com.lytridis.dogcare>
- «ΤΜΠ – Student tools»  
<https://play.google.com/store/apps/details?id=com.lytridis.unitimetable>

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## I O S   A P P L I C A T I O N S   D E V E L O P M E N T

- Application «Μυροβόλος Άνοιξις»  
<https://itunes.apple.com/us/app/myrobolos-anoixis/id1150810606?mt=8>
- Application «Τμήμα Μηχανικών Πληροφορικής»  
<https://itunes.apple.com/us/app/tmema-mechanikon-plerophorikes/id1155515365?mt=8>
- Application «i2fest»  
<https://itunes.apple.com/us/app/i2fest/id1289195845?mt=8>

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## O T H E R   A C T I V I T I E S

- Design and implementation of the Control & Robotics Research Group website
- Participation in the Climbing Robot competitions at the CLAWAR 2001 (Karlsruhe, Germany) and CLAWAR 2002 (Paris, France) conferences
- Presentation of the BIRAW smelling robots at the 13th International Symposium on Measurement & Control in Robotics (ISMCR'03, Madrid, Spain)
- Attendance in a series of workshops titled “Postgraduates as teachers, tutors and laboratory demonstrators”
- Student representative at the Faculty Research Committee (February 2001 – October 2003)
- Member of the Technical Chamber of Greece
- Member of the International Association for Blended Learning – IABL
- Member of the Advanced Educational Technologies and Mobile Applications Lab
- Member of the organizing committee of the Industrial Informatics Festival (i2fest).
- Design and implementation of the website [www.straydogs.gr](http://www.straydogs.gr)

- Design and implementation of the website of the Postgraduate Course "Master of Education in Distance Education (M.Ed.)"  
<http://mddegr.emattech.gr/mddegr/>
- Design and implementation of the website [www.epiplastefanou.gr](http://www.epiplastefanou.gr)
- Design and implementation of the Advanced Educational Technologies and Mobile Applications website <http://ar.teiemt.gr>
- Design and implementation of the Industrial Informatics Festival website <http://www.i2fest.gr>
- Design and implementation of the Technological Research in Eastern Macedonia and Thrace website <http://ctr-emth.teikav.edu.gr/kte/ctr/>
- Organisation of a Workshop titled "Blending AR and Mobile Learning" for the 1st International Association for Blended Learning Conference - IABL2016.
- Organisation and teaching in a distance-learning short course titled "Android app development" – AETMA Lab
- Design and implementation of the Inchiku Glow company website <http://www.inchikuglow.gr/>

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#### L A N G U A G E S

- Greek
- English
- French