

Personal Information

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Short Bio

Dr. Fotios Talantzis, obtained his BEng in Electronic and Computer Engineering in 2000. He followed this by an MSc (Telecommunications and Signal Processing) and a PhD on Statistical Audio Signal Processing in Imperial College London. In general, his research allowed for a series of journals, conferences and book publications while in parallel he enriched his professional skills by working as a consultant in respectful Greek and UK companies. He is co-founder of novoville ltd, successful start-up in the web 2.0 industry. He currently operates as an Assistant Professor in Athens Information Technology. He also serves as a visiting academic in Imperial College London. He has performed technical and strategic coaching for several start-ups. He has research interests that concentrate on statistical signal processing, acoustic source localization, blind source separation, social-media statistics and financial signal processing. His work has found extensive applications in ambient intelligence and web 2.0 systems.

Education

- 2001-2004 **Imperial College London**
 - **PhD** Equalization and Separation Systems in Acoustic Reverberant Environments. Supervised by Prof. A.G. Constantinides and Dr. D.B. Ward.
- 2000-2001
 - **MSc** in Communications and Signal Processing. Project supervised by Prof. A.G. Constantinides.
- 1997-2000
 - **BEng (Hons)** Computer Systems & Microelectronics. Supervised by Prof. S. Taylor and Prof. A. Vourdas.

Other Academic Qualifications

- 2008 **Harvard JFK School of Government**
 - The Art & Science of Negotiation: An executive short education program designed by Harvard to improve the ability of professionals in the public and private sectors who face significant change and transition in their workplace and/or

societies, and who would like to enhance their influence both internally and externally.

- 2006-2007 **Athens Information Technology**
 - **Mini MBA:** This set of courses presents the basic concepts of managerial economics and of business management with emphasis on business applications. The basic concepts of microeconomics are presented where an economic problem is transformed to an optimization problem whose solution has an economic interpretation. This approach will be used to answer such problems as input selection, pricing and project selection. Management functions like accounting, finance, human relations and marketing are also important since today's web driven business environment requires an innovative approach.

Work Experience

Experience Tag-cloud

- Statistics & Statistical Signal Processing, Audio-Visual Signal Processing, Ubiquitous and Ambient Computing, Data Mining, MATLAB, C/C++.
- Linux, PHP, MySQL, Javascript, React Native, AngularJS, Apache, nginx, jQuery, Open Source.
- Product Development, Project Management, Funding, Strategy.

Entrepreneurial Experience

- 2014 – Present
 - Co-founder and CEO of **novoville ltd** (www.novoville.com): novoville is a free application for smart-phones that allows citizens to report in an easy and fast manner problems that concern their city. A corresponding backend system allows municipalities to manage repairs and complains in a far more centralized and efficient way. Attracted one round of funding.
 - Technologies used: Linux, PHP 7 (Laravel, Lumen), MySQL, Javascript, Apache, nginx, React-Native.
- 2012 – 2013
 - **Member of the advisory board** of feedstore sa, a start-up company developing a crowd-sourced e-learning platform.
 - Technologies used: Linux, PHP 5 (Zend), MySQL, AngularJS, Neo4J
- 2011 – 2012
 - **Member of board** of inooz.co.uk, a news aggregation service. Consulting on algorithms concerning data-mining and knowledge extraction.
 - Technologies used: PHP 5 (Zend), MySQL
- 2010 - 2014
 - **Co-founder and CTO** of novomatix pc (www.novomatix.com), a successful start-up company active in the areas of Telecommunications and web 2.0 services. Attracted two rounds of funding for the company's core products. Successfully steered operations, consistently

- generating financial growth. Effectively interviewed, hired, and trained team members. Participated in the design and development of over 40 medium-to-large scale projects/products in the areas of web 2.0.
- Developed and managed operations for several of the company products, indicatively:
 - **eprs European commission publications office:** An end-to-end solution (backend, api, hybrid apps) for giving access to the publications of the European Publications office.
 - Technologies used: Linux, PHP 7 (Laravel, Lumen), MySQL, Javascript, Apache, nginx, React-Native.
 - **kitrinikarta.gr:** Το έργο είναι fork του novoville και αφορά δήλωση παρενεργειών φαρμάκων με τη χρήση κινητών εφαρμογών. Δημιουργία και διαχειριστικού συστήματος για επεξεργασία στατιστικών δεδομένων που προκύπτουν.
 - Technologies used: Linux, PHP 5 (Wordpress), MySQL, JQuery, Apache, React-Native.
 - **enumber.me:** enumber is a unique id solution that activates an already established and trusted social network: your mobile phone contact-book. enumber comes in the form of a mobile application for smartphones (iPhone + android) supported from a web service. Our system allows users to update their profile (contact info, social profiles, availability) and reflect changes to everybody that has their cell number.
 - Technologies used: Linux, PHP 5 (Zend), MongoDB, AngularJS, Apache.
 - **eyemercial:** The system automatically detects and tracks faces captured by high-resolution wide dynamic range sensors. Relying on proprietary, video analytics technology, eyemercial generates true viewing data for digital displays, screens and store displays by analysing face images of people watching the displays.
 - Technologies used: Linux, PHP 5 (Zend), MySQL, Apache.
 - **evneo.live and evneo.front:** These are custom Web Content Management (WCM) solutions that automate the entire process of managing content across websites, portals, intranets, and extranets, including authoring, site design, application deployment, content targeting, site analytics, and multi-variable testing. At the core of these WCM systems you can find simplified processes, rich interfaces, and a highly scalable infrastructure, which can be managed by all users without undue reliance on IT.
 - Technologies used: Linux, PHP 5 (Yii), MySQL, AngularJS, Apache.

Academic Experience

- 2006 - Present
 - Athens Information Technology: **Assistant Professor**.

- Course Coordinator of BSc in Computer Engineering. Principal Designer of the course.
- 2009 - Present
 - Imperial College London: **Visiting Academic**.
- 2004 – 2006
 - Athens Information Technology: **Senior Researcher**.
- 2001 - 2004
 - Research Associate in **Imperial College London**.

Teaching

- Have instructed courses on
 - Statistical Signal Processing
 - Advanced Perception
 - Digital Communications
 - Programming Languages
 - Ambient Intelligence Laboratory
- Instructor on Multimodal Interfaces: AIT Summer School
- Dr. Talantzis has supervised over 25 MSc graduate projects and 2 PhD students.

Selected Research Projects (Acquired funding, participated in implementation)

- OCTAVE, **EU HORIZON 2020 funded**: The project integrates commercial-grade and new, hybrid ASV systems with the latest environmental robustness and anti-spoofing technologies to deliver a scalable, trusted biometric authentication service (TBAS). By simultaneously relieving end-users from the inconvenience of dealing with textual passwords, the OCTAVE platform will reduce the economic and practical burdens related to password loss and recovery. Project manager for AIT. Design and implementation of audio and web components.
- DNR2, **Industrial**: Second generation of the Intracom Defence noise-reduction system. Project manager. Design of advanced audio denoising algorithms to include noises coming from gunshots.
- ARGOS, **EU FP7 funded**: The project deals with the design of protection mechanisms for critical infrastructures (power plants, gas pipes etc.). More specifically, how those Critical Infrastructures can anticipate any threat with the view of avoiding potential service disruptions. This project proposal is expected to enhance the capacity of those Infrastructures in order to monitor, deter, and respond to a potential threat using “Early Warning Technologies”. Working on statistical data mining.
- GAMEZON, **Industrial**: An open social gaming ecosystem for user-generated game development and community game playing. Responsible for cloud migration of services.
- HERMES, **EU FP7 funded**. The project provides an integrated approach to cognitive care. This is achieved through an assistive technology that combines the functional skills of the older person to reduce age-related decline of cognitive capabilities and assist the user where necessary. Worked on audio front-end technologies for speech related interfaces.

- ASPIRE (Advanced Sensors and lightweight Programmable middleware for Innovative RFID Enterprise applications). **EU FP7** funded. Plans to change the current RFID deployment paradigm, through introducing and boosting a shift towards royalty-free RFID middleware, while also placing the middleware at the heart of RFID infrastructures.
- DNR, **Industrial**: Creation of technology for noise reduction in off-road vehicles' telecommunications. Cooperation with INTRAKOM. Co-supervising progress and implementing systems.
- CHIL (Computers in the Human Interaction Loop). **EU FP6 funded**. Fade the computers into the background by creation of multimodal interfaces. Responsible for the audio based research and development. Developed several prototype technologies involving acoustic source localization and separation. The source localization system has been approved for patent submission.
- PRIAMOS, **GSRT funded**. Ubiquitous and autonomic systems employment for security services. Responsible for audio sub-systems.
- On-line Interactive TV program guide, **Industrial**: Integration of a speech recognition engine into a STB. Co-operation with IBM and Intracom. Technical coordinator.
- Research Associate in the Signal Processing and Telecommunications Group of the Electrical & Electronics Engineering Department, Imperial College London. This included complete responsibility of an **EPSRC** (Engineering and Physical Sciences Research Council) research grant on the investigation of microphone-array technologies.

Other Work Experience

- 2009 - 2010: Editor of the Technology section of the portal **nooz.gr**.
- 2007 - 2010: Radio producer of DIGITAL: Technology show on the nationally broadcasted radio-station Flash 96.
- 2001 - 2003: Technical Advisor in Kapa Research, Athens.
- 1999 - 2000: Software Engineer in ARM Microelectronics, Cambridge, UK.
- 1997 - 1999: Technical Consultant in Simplex CA, Athens.

Languages

- Greek (Mother tongue).
- English (Fluent): Proficiency, First Certificate, IELTS.
- French: DELF.

Publications

F. Talantzis is the author of approximately 20 Journal papers, 40 Conference papers, 10 Book Chapters, 2 patents, and 1 book.