

Dr. Venetis Kanakaris

Electronic and Electrical Engineer

PERSONAL DETAILS

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PERSONAL SUMMARY

A talented graduate Electronic, Electrical, Computer and Communications Engineer with a strong academic background and big engineering training and experience. Ability to analyse a problem and provide solutions accompanied with the confidence to make ideas heard. A proven ability to analyse and present data in a professional and clear manner. Interested in academic and engineering positions allowing him to work alongside a dynamic and productive team of experts, thus developing his career in more senior positions in the future.

ACADEMIC QUALIFICATIONS

- 2023 Post-doctoral title: "The training of elderly people in the use of smart phones to promote their communication and social networking, to improve their daily life and to utilize their free time". Aristotle University of Thessaloniki, Faculty of Education, School of Early Childhood Education M.Ed. *Hellenic Open University* (School of Humanities), (Adult Education).
- 2013 M.Ed. *Hellenic Open University* (School of Humanities), (Adult Education).
- 2012 Ph.D. *University of Portsmouth* (School of Engineering), Dissertation topic: Energy Aware Routing Protocols In Ad-Hoc Wireless Networks
- 2005 M.Sc. *Technical University of Gabrovo* (Bulgaria) (Communication Equipment & Technologies).
- 2003 B.Sc. *Institute of Technology in Kavala* (Greece) (Department of Electrical Engineering).
- 1999 B.Sc. *Institute of Technology in Lamia* (Greece) (Department of Electronic Engineering).

PROFESSIONAL APPOINTMENTS

- 2000-2001 **IT Administrator**, *Prisma Electronics Ltd in Komotini (Greece)*, Duties: Computer Networks Installation and Maintenance, Server Applications Installation and Maintenance
- 2000-2004 **Lab professor**, *School of Technological Engineering in Kavala (Greece)*, Duties: Teaching Electronic Circuits
- 2010-2011 **Lab professor**, *School of Technological Engineering in Kavala (Greece)*, Duties: Teaching Telecommunications (Fiber Optics – Wireless Networks)
- 2015-2016 **Adjunct Senior Lecturer**, *School of Technological Engineering in Kavala (Greece)*, *Department of Electrical Engineering*, Duties: Teaching Energy Economy, Cloud Computing & Internet of Things (IoT), Supervisor on Master and Bachelor Thesis
- 2016-2017 **Adjunct Senior Lecturer**, *School of Technological Engineering in Kavala (Greece)*, *Department of Computer Engineering*,

M.Sc. Programme “Advanced Information and Computers Technologies” Duties: Teaching Cloud Computing & Internet of Things (IoT), Supervisor on Master and Bachelor Thesis.

2017-2018 **Adjunct Senior Lecturer**, *School of Technological Engineering in Kavala (Greece), Department of Computer Engineering*, Duties: Teaching Cloud Computing & Internet of Things (IoT), Supervisor on Master and Bachelor Thesis

2017-2018 **Adjunct Senior Lecturer**, *Department of Production and Management Engineering of the Democritus University of Thrace*.

Duties: Teaching Automation Control Systems, Robotics, Supervisor on Master and Bachelor Thesis

2018-2019 **Adjunct Senior Lecturer**, *School of Technological Engineering in Kavala (Greece), Department of Computer Engineering*, Duties: Teaching Telematics, Cloud Computing & Internet of Things (IoT), Supervisor on Master and Bachelor Thesis

2018-2019 **Adjunct Senior Lecturer**, *Department of Production and Management Engineering of the Democritus University of Thrace*.

Duties: Teaching Automation Control Systems, Robotics, Supervisor on Master and Bachelor Thesis

2004-2021 **Lab Technician**, *Democritus University of Thrace in Xanthi (Greece)*, Lab of Reinforced Concrete, Duties:

- Teaching Wired and Wireless Sensors Fundamentals (LVDT, Accelerometers, etc) and Data Acquisition Techniques and Troubleshooting.
- Sensors Installation and Maintenance, Data Acquisition, Specimen Installation, Actuator Installation and Maintenance.

2021-present **Special Teaching Staff**, *Department of Economics, Democritus University of Thrace in Xanthi (Greece)*, Duties: Teaching IoT (Internet of Things), Blockchain, Informatics

2019-present **Director of studies of Life-Long Learning Center**, *Democritus University of Thrace in Xanthi (Greece)*, Duties: Management and Evaluation of Educational Programs

RESEARCH, KNOWLEDGE TRANSFER & SCHOLARSHIP

- Supervised more than 6 MSc and 15 undergraduate projects

KEY SKILLS AND COMPETENCIES

- Ability to manage own projects
- Good administration and organisational skills
- Having a logical approach to problem solving
- Able to communicate complex issues to a large range of stakeholders at all levels
- Possessing a solid academic understanding of engineering principles

EXPERTISE

Computer Skills

Internet Technologies

Knowledge of a wide range of programming languages (C, MATLAB, Python, NS-2) Large volume data processing and

Telecommunications

Wireless channel measurement systems development Fiber Optics modelling

Signal processing

Advanced electronic systems Communication network modelling

RESEARCH PROJECTS

2013 - 2015 "Tests of the passive fire protection material Fireshield according to ASTM E736 and presentation of the new standard ELOT EN 1504" (Leader of the team: Prof. K. Chalioris, Budget: 150.000 Euros).

2013 - 2015 "Utilization of Steel Industry By-Products: Production of Added Value Materials for Sustainable Construction and Toxic Compounds' Immobilization" (Leader of the team: Prof. K. Chalioris, Budget: 150.000 Euros).

2013 - 2015 "Thalis Programme" entitled: "WiAMS Project: Development and evaluation of a wireless real-time monitoring system for structural integrity assessment of concrete structures using a smart piezoelectric sensor network"/C' in the research team of DUTH (Leader of the team: Prof. C.G. Karayannis and leader of the project: Prof. C.P. Providakis, Technical University of Crete, budget: 300.000 Euros).

2016 - 2018 "Niarchos Fellowship" entitled: "Seedbed IoT (Internet of Things)" An automated seedbed based on sensors environment, in order to grow efficiently traditional seeds (no hybrids). The data collected from sensors will be used to learn the best measurements recipe of the plant. (Leader of the team: Dr. V. Kanakaris, Budget: 50.000 Euros).

JOURNAL PUBLICATIONS

V. Kanakaris, D. Ndzi, D. Azzi, "Ad-hoc Networks Energy Consumption: A review of the Ad-Hoc Routing Protocols", Journal of Engineering Science and Technology Review (JESTR), Vol.3 Iss. 1, pp.162-167, 2010.

K Ovaliadis, N Savage, V Kanakaris, "Energy efficiency in underwater sensor networks: a research review", Journal of Engineering Science and Technology Review (JESTR), Vol.3 Iss. 1, pp.151-156, 2010.

V. Kanakaris, D. Ndzi, K. Ovaliadis, "Improving AODV performance using Dynamic Density Driven Route Request Forwarding", International Journal of Wireless & Mobile Networks, vol. 3, no. 3., pp. 16-27, 2011.

V. Kanakaris, D. Ndzi, K. Ovaliadis, "Applications of MANET Routing Protocols in Sensor Network", International Journal of Research and Reviews in Ad Hoc Networks (IJRRAN), Vol. 1, Iss. 4., pp. 88-92, 2011.

V. Kanakaris, D. Ndzi, K. Ovaliadis, L. Yang, "A new RREQ message forwarding technique based on Bayesian probability theory", EURASIP Journal on Wireless Communications and Networking (EURASIP.JWCN), Vol. 1, pp. 1-12, 2012

V. Kanakaris, D. Ndzi, G.A. Papakostas, "Sensitivity analysis of AODV protocol regarding forwarding probability", International Journal for Light and Electron Optics, Vol. 127, Iss. 3, pp. 1016-1021, 2016.

J. Kalathas, D. V. Bandekas, A Kosmidis, V Kanakaris, "Seedbed based on IoT: A Case Study", Journal of Engineering Science and Technology Review (JESTR), Vol.9, Iss. 2, pp.1-6, 2016.

V. Kanakaris, G.A. Papakostas, D. Bandekas, "An Analysis on the Impact of Video Traffic over Wireless Visual Sensor Network under Mannasim Sensor Network Architecture", International Journal of Engineering and Technology (IJET), Vol. 8 Iss. 5, pp. 2318-2332, 2016.

K. Tzovelekis, V. Kanakaris, D. V. Bandekas, "Geo-Location Twitter And Instagram Based On OSINT Techniques: A Case Study", International Journal of Advanced Research (IJAR), Vol.7 Iss. 1, pp.780- 791.

V. Kanakaris, K. Tzovelekis, D.V. Bandekas, "Impact of AnonStalk (Anonymous Stalking) on users of

Social Media: a Case Study”, Journal of Engineering Science and Technology Review (JESTR), Vol.11 Iss. 2, pp. 126 – 134.

Venetis Kanakaris, George Papakostas, (in press) “Internet of Things (IoT) Protocols - A Survey”, International Journal of Humanitarian Technology (IJHT).

Kanakaris Venetis, Georgios Lampropoulos, and Kerstin Siakas. "A Survey and a Case-Study Regarding Social Media Security and Privacy on Greek Future IT Professionals." International Journal of Human Capital and Information Technology Professionals (IJHCITP) Vol. 10, Iss. 1 pp. 22-37.

Kanakaris, V., Papakostas, G.A. and Bandekas, D.V., 2019. Power consumption analysis on an IoT network based on wemos: a case study. *Telkomnika*, 17(5), pp.2505-2511.

Chaitidis, G.D., Karakatsanis, T.S., Kanakaris, V., Papachastas, K.M. and Tsiafis, I.C., 2019. Vibration Analysis of a Common Rail Diesel Engine using Biodiesel: A Case Study. *Journal of Engineering Science & Technology Review*, 12(5).

F. Casino, V. Kanakaris, T. K. Dasaklis, S. Moschuris, S. Stachtiaris, M. Pagoni, N. P. Rachaniotis “Blockchain-based food supply chain traceability: a case study in the dairy sector” *International Journal of Production Research*, pp.1-13. (2020)

Kanakaris, Venetis, and Maria Pavlis Korres. "Investigating the Educational Needs of Elderly People Within the Scope of an Educational Program on the Use of Social Media Networks by Smartphones. "IT and the Development of Digital Skills and Competences in Education. IGI Global”, 2020. 100-121.

Kanakaris, V., & Pavlis-Korres, M. (2022). OLDER WOMEN'S VIEWS ON THEIR PARTICIPATION IN A BLENDED EDUCATIONAL PROGRAM USING FB ROOM PLATFORM. *European Journal of Open Education and E-learning Studies*, 7(1).

CONFERENCE PUBLICATIONS

V. Kanakaris, D. Ndzi, D. Azzi, "Ad-hoc Networks Energy Consumption: A review of the Ad-Hoc Routing Protocols", 9TH Hellenic European Conference on Computer Mathematics and its Applications (HERCMA 2009), 24-26 September, 2009, Athens, Greece.

G. Velonis, V. Kanakaris, "Teaching Python with the Programmatic Microcosm of RUR-PLE (RUR - Python Learning Environment)", 10th Hellenic Conference of Teachers on Informatics, 15-17 April, 2016, Nafplio, Greece.

J. Kalathas, D.V. Bandekas, V. Kanakaris, and A. Kosmidis, “Seedbed IoT”, 28th Conference of the Hellenic Horticulture Society, 16-20 October, 2017, Thessaloniki, Greece.

V. Kanakaris, A. Staikopoulos, A. Sourmelis, G. Papakostas (in press) ”Improving Management of Logistics By Integrating Blockchain, IoT and Drones Towards Wellbeing”, In *Software, Telecommunications and Computer Networks (SoftCOM)*, 2018 26th International Conference on (pp. 1-6). IEEE.

A. Sourmelis, A. Staikopoulos, V. Kanakaris, G. Papakostas, (in press) ”Internet of Things (IoT): A Way to Improve Humans Wellbeing”, In *Software, Telecommunications and Computer Networks (SoftCOM)*, 2018 26th International Conference on (pp. 1-6). IEEE.

PATENTS

SeedBed IoT (Domestic Heated Seedbed Controlled By Internet Of Things (IoT)), Greek National Patent Registered, by International Property Organisation (20170100134).