

Panagiotis Michalopoulos

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Education

2017-2020	Eindhoven University of Technology Master of Science in Embedded Systems Major: Embedded Software Thesis Title: Comparing Explanations for Black-box Intrusion Detection Systems Supervisor: Asst. Prof. Jerry den Hartog GPA: 7.79/10
2012-2017	University of Patras Diploma of Electrical and Computer Engineering (MSc equiv.) Major: Electronics & Computers Thesis Title: Malware Evaluation Based on Behavioural Characteristics Supervisor: Prof. Dimitrios Serpanos GPA: 7.51/10 GPA in Major: 8.68/10
2000-2012	Lycée Léonin de Patissia GPA: 19.5/20

Experience

Research Assistant

National Observatory of Athens, Jun 2020 - ongoing

- Developed a web application for managing and monitoring air quality measurements obtained from a sensor network.
- Developed linear models for the correction of low-cost sensor measurements against reference instruments.
- Performed simulations of atmospheric transport processes.

Reverse engineering of a network protocol

Assignment for the Hacker's Hut course (2IMS20), Nov 2017 - Jan 2018

- Reverse engineered a network protocol for programming PLCs.
- Developed a Wireshark parser for SecurityMatters B.V.

PANOPTIS (National Cybersecurity Exercise)

Member of the University of Patras CTF Team, 2017, 2018, 2020

- Organized by the Ministry of National Defence.
- Simulates a wide range of cybersecurity incidents, such as penetration testing, forensics, malware analysis.

ECESCON 8 (ECE Students Conference)

Member of the IT Team of the Organising Committee, Jun 2014 - Oct 2015

- Responsible for the setup, configuration, and maintenance of the conference's mail server.
- Developed two interactive Microsoft Kinect applications for the venue.

Personal programming projects

More information: pcloud.gr/projects

- Steganography tool
- File synchronization client
- Development of a personal cloud

Skills

Operating Systems:	FreeBSD, Linux, Windows, MS-DOS
Programming Languages:	Python, C/C++, Java, JavaScript, Prolog, MS Visual Basic, C#, PHP
Tools:	Eclipse, MS Visual Studio, \LaTeX , Matlab, FLEXPART, ProVerif, AutoCAD, PSpice, MS Office, React, django
Languages:	Greek, English, French

Publications

Journals

- [J1] Konstantinos Dimitriou, Aikaterini Bougiatioti, Michel Ramonet, Fragkiskos Pierros, Panagiotis Michalopoulos, Eleni Liakakou, Stavros Solomos, Pierre-Yves Quehe, Marc Delmotte, Evangelos Gerasopoulos, Maria Kanakidou, and Nikolaos Mihalopoulos. “Greenhouse gases (CO₂ and CH₄) at an urban background site in Athens, Greece: Levels, sources and impact of atmospheric circulation”. In: *Atmospheric Environment* (2021). Submitted.
- [J2] Panayiotis Kalkavouras, Aikaterini Bougiatioti, Tareq Hussein, Nikos Kalivitis, Iasonas Stavroulas, Panagiotis Michalopoulos, and Nikolaos Mihalopoulos. “Regional New Particle Formation over the Eastern Mediterranean and Middle East”. In: *Atmosphere* 12.1 (Jan. 2021), p. 13. doi: 10.3390/atmos12010013.
- [J3] Iasonas Stavroulas, Georgios Grivas, Panagiotis Michalopoulos, Eleni Liakakou, Aikaterini Bougiatioti, Panayiotis Kalkavouras, Kyriaki Maria Fameli, Nikolaos Hatzianastassiou, Nikolaos Mihalopoulos, and Evangelos Gerasopoulos. “Field Evaluation of Low-Cost PM Sensors (Purple Air PA-II) Under Variable Urban Air Quality Conditions, in Greece”. In: *Atmosphere* 11.9 (Aug. 2020), p. 926. doi: 10.3390/atmos11090926.

Conferences

- [C1] Panagiotis Michalopoulos, Vasileios Ieronymakis, Muhammad T. Khan, and Dimitrios Serpanos. “An Open Source, Extensible Malware Analysis Platform”. In: *Proceedings of the 5th International Conference of Engineering Against Failure (ICEAF-V 2018)*. Vol. 188. EDP Sciences, June 2018, p. 05009. doi: 10.1051/mateconf/201818805009.

Other information

- Member of the Technical Chamber of Greece
- IEEE member