

## **Curriculum Vitae**

### **Anastassopoulos Vassilis, Professor**

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#### **Personal Information**

Born in Patras, Greece, in 1958.

Electronics Laboratory, Sector of Electronics and Computers

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<http://scholar.google.gr/citations?user=BYcshrUAAAAJ&hl=en&oi=ao>

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#### **Education and Academic Career**

He studied Physics at the University of Patras, where he was admitted in 1976 ranking 4th and graduated in 1980 with a GPA of 8.41, the highest score of that year. Throughout his studies, he was an IKY (State Scholarships Foundation) scholar.

His PhD thesis, titled " *$\Delta$ -Modulation Circuits*," was completed in the summer of 1985 in the Electronics Laboratory of the Department of Physics.

He fulfilled his military service from August 1985 to May 1987, gaining valuable experience in interoperability protocols for automated systems.

Since 1987, he has been a faculty member at the Electronics Laboratory of the Electronics and Computing Division, Department of Physics, University of Patras. He was promoted to Full Professor in 2005.

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#### **Research Activities**

He has conducted research for two years at universities in Canada (Toronto, 1989–1990; Quebec City, 1994–1995, in collaboration with A.U.G. Signals Ltd.), working on digital image processing, object recognition, and radar signal processing for dim target detection.

His research interests include digital signal and image processing, object recognition, and remote sensing. He has focused on handwritten text processing, biometric signal analysis, information fusion techniques, and the statistical study of radar echoes from sea and land. In remote sensing, he works with SAR, multispectral, and infrared imagery for Earth monitoring, targeting change detection and object characterization. He has also dealt with image super-resolution as an inverse problem and has extensive expertise in data-to-decision-level information fusion. He is significantly involved in image processing for astroparticle physics. He has authored over 100 journal articles, more than 70 conference papers, and his work has been cited over 3,600 times.

#### **International Collaborations**

He is an active member of the CAST-Collaboration at CERN, contributing to digital data processing for dark matter particle detection, in collaboration with Dr. Axel Lindner's team at DESY. He also collaborates with the Geophysical Institute of the École

Normale Supérieure in Paris (Prof. Pierre Briole) on the Corinth Rift Geophysical Laboratory project. He has a long-standing collaboration of over 35 years with the Canadian company A.U.G Signals Ltd on object detection, recognition, remote sensing, and data fusion. For the last three years, he has worked with Dispersion Industries Inc. on translating research results into products for contactless intoxication detection (US Patent App. 18/568,742, 2024).

He has coordinated 13 R&D projects and participated in 20 more. He has served as a reviewer for both national and EU programs.

### **Editorial Roles**

He was Associate Editor for *Pattern Recognition* and for three years with *IEEE Transactions on Circuits and Systems, Part II*. Since 2022, he has been a Guest Editor for *Remote Sensing* (MDPI).

### **ESA and National Committees**

He served as Greece's alternate representative to the Administrative and Finance Committee of the European Space Agency (ESA) from March 2005 to 2010.

In 2007, he was a member of the Greek ESA Task Force led by Prof. Stamatios Krimizis. He also participated in the Hellenic Space Organization (ELDO) in 2018 but resigned shortly after the resignation of the President Prof. Krimizis.

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### **Teaching Activities**

He has supervised 9 PhD theses, over 30 master's theses, and more than 100 undergraduate theses.

For 40 years, he has taught Electronics, Electromagnetism, C++ Programming, Digital Signal Processing, Pattern Recognition, Machine Learning, and Remote Sensing.

He utilizes MATLAB and C++ to support coursework.

He has authored the following books:

- *Delta-Sigma Modulators: Modeling, Design and Applications*, Imperial College Press, Singapore, 2003
- *Introduction to Informatics*, Hellenic Letters Publications
- *Digital Image and Signal Processing* for the Hellenic Open University
- *University lecture notes on C++ Programming and Digital Signal Processing*

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### **Administrative and Developmental Roles**

He served as Chair of the Department of Physics at the University of Patras for four two-year terms.

During his second term (2005–2007), he reformed the Undergraduate Curriculum, which received positive evaluations from national quality assurance bodies.

He was actively involved in the following evaluations:

1. Two EPEAEK evaluations in the early 2000s, which ordered the curriculum reform.
2. Curriculum evaluations by HAHE (Hellenic Authority for Higher Education) in 2011 and 2020.

3. The postgraduate program evaluation in 2024.
4. The evaluation of Hellenic Open University and its technological impact on the Greek economy.
5. The evaluation of candidates for adjunct faculty positions in 2017.

From 2006 to 2010, he was Vice Rector for Strategic Research Planning and Development. During this period, he:

- Reorganized the University's Sector for Research Administration (ELKE),
- Established 21 interdisciplinary university networks,
- Contributed to the founding of the Bone Marrow Donor Volunteer Center (KEDMOP),
- Managed the Andreas Mentzelopoulos Scholarships Committee since 2007,
- Initiated University of Patras' participation in CERN's SCOAP3 open-access initiative.

From 2011 to 2013, he launched the University's Innovation and Knowledge Transfer Office. He evaluated the regional technological ecosystem with Dr. Paul Van Dun (Research Director KU Leuven) and initiated the annual Innovation Quest (IQ) exhibition in collaboration with the Chamber of Achaia.

He was CEO of the University of Patras Asset Management Company.

During his tenure:

- The university's logo was redesigned,
- Patras University Publications sector was modernized,
- A 1 MW solar panel installation was licensed,
- A 200-acre university land plot was cleaned and fenced for development as a business park.
- In 2012, together with the Vice-Rector Prof. Krontiras and the Director of Secondary Education Prof. Panagiotopoulos (today Vice-rector), they established the activity "Schools Go to University".

From 2016 to 2021, he was Chairman and CEO of the Patras Science Park.

Key achievements:

- Creation of the Proof-of-Concept program, resulting in 8 start-ups with external funding,
- Recognition of the Park as a CERN Business Incubation Center (2018–2022), allowing local companies access to CERN-developed technologies.
- Visits to Ramot - Technology Transfer Company of Tel Aviv University.

From 2017 to 2020, he was a member of DOATAP (Hellenic NARIC), evaluating foreign degree equivalency.

From 2023 to 2025, he served as the Student Ombudsman at the University of Patras.

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