

Pavlos Athanasios Apostolopoulos

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Education

- **Diploma, Electrical and Computer Engineering, School of Electrical and Computer Engineering, National Technical University of Athens, Greece, 2008 (5-year degree)**
 - GPA: 8.4/10 (estimate: top 5% of the year)
 - Major: Computer Networks & Communications
Minor: Computer Science
 - Diploma Thesis: "Utility Company Selection & Demand Response Management based on Machine Learning & Game Theory"
Advisor: Prof. Symeon Papavassiliou
- Nationwide University Entrance Examination score: 18.800/20.000 (top 1% nationwide)

Technical Skills

- **Programming:** Java, C/C++, C#, Python, Matlab, HTML, Haskell, Prolog, OpenMPI, MPI, CUDA(programming for nVidia GPUS), Assembly MIPS
- **Software Tools:** PSpice, Mathematica, Matlab Simulink
- **Parallel Computational Systems:** Extensive usage of NTUA's parallel-computational-system (supercomputer) with parallel formed programs for approaching results of a wide range of well-known NP-Complete problems (Computational Systems Laboratory - CSLab - NTUA).

Teaching Experience

- Private Tutor in high school level and in undergraduate students: Mathematics, Physics, Chemistry, Algorithms and Programming (Athens, Greece 09/2012-12/2016)

Research Interests

- Game Theory and Network Utility Maximization Theory
- Network Economics and Smart Data Pricing
- Public Safety Networks
- Smart Grid Networks
- Randomized Algorithms and their applications in the analysis of big-scale Social Networks

- Network Behavior Anomaly Detection - NBAD
- Cyber-physical Systems, Internet of Things (IoT)

Honors, Awards, & Scholarships

- **Award from the Ministry of Education**, Awarded for the best Grade in Nationwide university entrance examination at High School in the area of Peristeri, Attica, Greece
- **Awards of Excellence in High School**, 6 in total, from the Ministry of Education, **2006-2012**.

Research & Development Experience and Projects

- Title: " Application and extension of the original client's program SIP Communicator & server's program JAIN SIP Proxy according to Session Initiation Protocol SIP - RFC 3261".
[Bitbucket-link: <https://PavApo@bitbucket.org/softengtua2016/softeng-sip-project-g41.git>].

Publications

Journal Publications Under Submission

1. P. A. Apostolopoulos, E. E. Tsiropoulou and S. Papavassiliou, " Utility Company Selection & Demand Response Management based on Machine Learning & Game Theory", IEEE Transactions on Smart Grid (*under submission*)

Professional Affiliations

- EESTEC (Electrical Engineering Students' European Association, 2012-2016)

Languages

- Greek (native)
- English (excellent)