

Emmanouil (Manolis) Vasilakis

+306987698895

manolisvasilakis

manolisvasilakis

✉ emmanouil.vasilakis@dauphine.eu

EDUCATION

Université Paris-Dauphine

Ph.D. in Theoretical Computer Science

Paris, France

Sept. 2022 –

- Title: “Fine-Grained Parameterized Approximation Algorithms and Complexity”
- Supervisor: Michael Lampis

National Technical University of Athens

Diploma in Electrical and Computer Engineering

Athens, Greece

Sept. 2014 – June 2021

- GPA: 8.56/10
- Master’s Degree equivalent
- Specialization in Computer Science
- Thesis: “Improved algorithms for subset sum problems”

EXPERIENCE

National Center for Scientific Research «Demokritos»

Intern at the Roboskel lab of the Institute of Informatics & Telecommunications

Athens, Greece

Sept. 2020 – Oct. 2020

- Project [iRTA](#)
- Worked on autonomous robot navigation under restrictions
- Investigated and integrated navigation methods in the Robot Operating System (ROS)

RESEARCH INTERESTS

- | | | |
|------------------------------|---------------------------|----------------------------|
| • Approximation Algorithms | • Complexity Theory | • Parameterized Algorithms |
| • Combinatorial Optimization | • Fine-grained Complexity | • Randomized Algorithms |

PUBLICATIONS

[1] Approximating SUBSET SUM RATIO via SUBSET SUM Computations

joint work with G. Alonistiotis, A. Antonopoulos, N. Melissinos, A. Pagourtzis, S. Petsalakis
33rd International Workshop on Combinatorial Algorithms

IWOCA 2022

[2] Faster Algorithms for k -SUBSET SUM and Variations

joint work with A. Antonopoulos, A. Pagourtzis, S. Petsalakis

- extended abstract in the 15th Frontiers of Algorithmics Workshop
- full version in the Journal of Combinatorial Optimization

FAW 2021

J. Comb. Optim.

TECHNICAL SKILLS

- **Languages:** C/C++, Python, SQL, SML-NJ, Prolog
- **Frameworks:** OpenMP, MPI, L^AT_EX
- **Developer Tools:** Git

LANGUAGES

- **Greek:** Native speaker
- **English:** Excellent knowledge (C2)
- **German:** Intermediate knowledge (B2)