

Dimosthenis Pasadakis

Curriculum Vitae

Education

- 2018–present **PhD candidate**, Università della Svizzera italiana, Faculty of Informatics, Institute of Computational Science, Advanced Computing Laboratory, Lugano, Switzerland.
- 2017–2018 **Research assistant**, Università della Svizzera italiana, Faculty of Informatics, Institute of Computational Science, Advanced Computing Laboratory, Lugano, Switzerland.
Tasks: *Numerical optimization and modelling techniques for power system planning and operations, including graph partitioning and multilevel approaches.*
- 2015–2017 **Master of Science in Computational Science**, Università della Svizzera italiana, Lugano, Switzerland. Honors: *Magna cum laude*.
MSc thesis: *A Three Dimensional Fluid-Structure Interaction Approach for the Simulation of the Human Heart Based on an Embedded Boundary Method.*
- 2009–2015 **Diploma of Physics**, Aristotle University, Thessaloniki, Greece. Honors: *Very good*.
Undergraduate thesis: *Post-Chernobyl ^{137}Cs in the atmosphere of Thessaloniki.*

Research Interests

- Graph theory & Graph algorithms
- Combinatorial optimization
- Parallel algorithms
- Domain decomposition
- High-dimensional data analysis

Publications

- [1] D. Pasadakis, D. Kourounis, and O. Schenk, "Estimation of drag and lift coefficients for steady state incompressible flow of a newtonian fluid on domains with periodic roughness," University of Lugano, Tech. Rep. 2017/01, 2017.
- [2] T. Simpson, D. Pasadakis, D. Kourounis, K. Fujita, T. Yamaguchi, T. Ichimura, and O. Schenk, "Balanced graph partition refinement using the graph p-laplacian," in *Proceedings of the Platform for Advanced Scientific Computing Conference*, ser. PASC'18. New York, NY, USA: ACM, 2018, pp. 8:1–8:11, <http://doi.acm.org/10.1145/3218176.3218232>.

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Conference & Seminar Talks

- "Fluid-structure interaction simulations of the human heart." 2017, September 28; ARTORG Center for Biomedical Engineering, University of Bern, Bern.
- "Balanced graph partition refinement using the graph p-laplacian." 2018, March 9; SIAM PP18, Waseda University, Tokyo.
- "Improvement of graph partitions using the graph p-laplacian." 2018, July 3; PASC'18, Congress Center Basel, Basel.

Prizes & Awards

- Best poster award. Category: Computer Science and Applied Mathematics. PASC'16, Lausanne, Switzerland.
- Best poster award, 3rd place runner-up. PASC'18, Basel, Switzerland.

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