Thaleia Dimitra Doudali

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EDUCATION

- [2015-present] **Ph.D. in Computer Science**
  Georgia Institute of Technology, Atlanta, GA, USA   GPA: 3.85/4.00
  Advisor: Ada Gavrilovska
  Research: Machine intelligent and timely data management for hybrid memory systems.
- [2010-2015] **Diploma in Electrical and Computer Engineering** (5-year degree)
  National Technical University of Athens, Athens, Greece
  Advisor: Nectarios Koziris
  Thesis: Design and implementation of Spaten, a spatio-temporal and textual Big Data generator.

PUBLICATIONS

- *Cori: Dancing to the Right Beat of Periodic Data Movements over Hybrid Memory Systems.* Thaleia Dimitra Doudali, Daniel Zahka, Ada Gavrilovska. Ongoing Work.
- *The Case for Optimizing the Frequency of Periodic Data Movements over Hybrid Memory Systems*. Thaleia Dimitra Doudali, Daniel Zahka, Ada Gavrilovska. To appear in MEMSYS '20.
- *Unexpected Performance of Intel DC Persistent Memory*. Tony Mason, Thaleia Dimitra Doudali, Margo Seltzer, Ada Gavrilovska. In IEEE Computer Architecture Letters, vol.19, no.1, pp.55-58, 1 Jan.-June 2020.
- *Kleio: a Hybrid Memory Page Scheduler with Machine Intelligence*. Thaleia Dimitra Doudali, Sergey Blagodurov, Abhinav Vishnu, Sudhanva Gurumurthi and Ada Gavrilovska. In The 28th International Symposium on High-Performance Parallel and Distributed Computing (HPDC '19), June 22–29, 2019, Phoenix, AZ, USA. ACM, New York, NY, USA. 12 pages.
- *Mnemo: Boosting Memory Cost Efficiency in Hybrid Memory Systems*. Thaleia Dimitra Doudali and Ada Gavrilovska. In proceedings of the 5th IEEE International Workshop on 3 High-Performance Big Data, Deep Learning, and Cloud Computing (HPBDC 2019). In conjunction with the 33rd IEEE International Parallel and Distributed Processing Symposium (IPDPS 2019). Rio de Janeiro, Brazil, May 2019.
- *CoMerge: Toward Efficient Data Placement in Shared Heterogeneous Memory Systems*. Thaleia Dimitra Doudali and Ada Gavrilovska. In Proceedings of MEMSYS 2017, Alexandria, VA, USA, October 2–5, 2017, 11 pages.
- *Spaten: a Spatio-temporal and Textual Big Data Generator*. Thaleia Dimitra Doudali, Ioannis Konstantinou, Nectarios Koziris. In proceedings of the 2017 Big Spatial Data Workshop (BSD 2017 in conjunction with IEEE BigData 2017), Boston, MA, USA December 11-14 2017.

AWARDS

- Rising Star in EECS 2020.
- Best Paper Award Finalist at HPDC '19 for Kleio: a Hybrid Memory Page Scheduler with Machine Intelligence. Best PhD Forum Poster with Research Paper Award.

PROGRAM COMMITTEE

- EuroSys 2020 Shadow PC.

TEACHING EXPERIENCE

[Spring 2017, Spring 2019] *Teaching Assistant - Georgia Tech*
Delivered guest lectures, designed and graded projects, interacted with students during office hours and online discussions for the Advanced Operating Systems class (CS6210).

INVITED TALKS

- [April 2020] The Four Life Quotes that Shaped my PhD Journey. At "Illuminate Tech", an inspirational talk series at Georgia Tech, Atlanta, USA.
- [Feb 2020] Kleio: a Hybrid Memory Page Scheduler with Machine Intelligence. At Grascomp/EuroSys Shadow PC joint workshop at UC Louvain, Belgium.
- [Jan 2020] Kleio: a Hybrid Memory Page Scheduler with Machine Intelligence. At the 5th Computing Systems Research day at NTUA, Greece.

CONFERENCE POSTERS

- Supercomputing 2020 Doctoral Showcase, EuroSys 2020 Doctoral Workshop, IPDPS 2019 PhD Forum, EuroSys 2019, SoCC 2018, DoE Salishan Conference 2018, CRA-W Grad Cohort 2017.

TRAVEL GRANT AWARDS

- CRA-W Grad Cohort '17, Department of Energy Salishan Conference '18.
- ATC '20, IEEE TCPP award for IPDPS '19, SoCC '18, ATC '17, OSDI '16.

FELLOWSHIPS

- [2018-2021] A.G. Leventis Foundation.

WORK EXPERIENCE

- [Summer 2018] **Internship at AMD Research.**
  Mentor: Sergey Blagodurov, Manager: Andrew Kegel
  Project: Design of Kleio, a hybrid memory page scheduler with machine intelligence.
- [Summer 2017] **Internship at VMware.**
  Mentor: Zhelong Pan, Manager: Lan Gao
  Part of the CPBU Palo Alto - Distributed Resource Scheduler Team.
  Project: Design of a two-stage scheduler that enables efficient resource management of kubernetes containers deployed across virtual machines.
- [Summer 2016] **Internship at Dell EMC.**
  Mentor: Abhinav Duggal, Manager: Aseem Vaid
  Part of the Data Domain File System - Garbage Collection team.
  Project: Develop techniques that group similar files, implementing clustering algorithms and similarity estimations on a deduplication dataset.

PATENTS

- Computer Resource Scheduling Using Generative Adversarial Networks.
  Sergey Blagodurov, Abhinav Vishnu, <u>Thaleia Dimitra Doudali</u>, Jagadish B. Kotra
  USPTO Application No. 16/425,878.
- Multi-instance Recurrent Neural Network Prediction.
  Sergey Blagodurov, <u>Thaleia Dimitra Doudali</u>, Amin Farmahini Farahani
  USPTO Application No. 16/220,462.
- Techniques for Container Scheduling in a Virtual Environment.
  <u>Thaleia Dimitra Doudali</u>, Zhelong Pan, Pranshu Jain
  USPTO Application No. 16/034,126.

SKILLS

Programming experience in: C/C++, Python, Matplotlib, Java, OpenMP/MPI, R, Memcached, Hadoop, Spark, HBase, SQL, HTML, Qemu/KVM.

EXTRACURRICULAR

- [2017-Present] Hellenic Society at Georgia Tech, president.
- [2017-Present] Georgia Tech Computer Science PhD Visit Days, student volunteer.
- [2012-2015] IEEE NTUA Student Branch, member.
- [Fall 2009] Greek Youth Parliament, member.