Thaleia Dimitra Doudali

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EDUCATION

Ph.D. in Computer Science   Atlanta, GA, USA
Georgia Institute of Technology (Georgia Tech)   2015 - Present
Advisor: Ada Gavrilovska
Thesis: Adding machine intelligence to hybrid memory management.

Diploma in Electrical and Computer Engineering   Athens, Greece
National Technical University of Athens (NTUA)   2010 - 2015
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. In Proceedings of the 35th IEEE International Parallel and Distributed Processing Symposium (IPDPS 2021).

- The Case for Optimizing the Frequency of Periodic Data Movements over Hybrid Memory Systems.
  Thaleia Dimitra Doudali, Daniel Zahka, Ada Gavrilovska. In Proceedings of the International Symposium on Memory Systems (MEMSYS 2020).

- 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, Ada Gavrilovska. In Proceedings of the 28th International Symposium on High-Performance Parallel and Distributed Computing (HPDC 2019).

- Mnemo: Boosting Memory Cost Efficiency in Hybrid Memory Systems.
  Thaleia Dimitra Doudali, Ada Gavrilovska. In proceedings of the 5th IEEE International Workshop on 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).

- CoMerge: Toward Efficient Data Placement in Shared Heterogeneous Memory Systems.
  Thaleia Dimitra Doudali, Ada Gavrilovska. In Proceedings of the International Symposium on Memory Systems (MEMSYS 2017).

- Spaten: a Spatio-temporal and Textual Big Data Generator.
  Thaleia Dimitra Doudali, Ioannis Konstantinou, Nectarios Koziris. In proceedings of the 2017 IEEE International Conference on Big Data (IEEE BigData 2017).

AWARDS

- **Best Paper Award Finalist** at HPDC 2019 for Kleio: a Hybrid Memory Page Scheduler with Machine Intelligence. Best PhD Forum Poster with Research Paper Award.
- Selected to participate in **Rising Stars in EECS 2020**, 2020 CRA-WP Career Mentoring Workshop, Department of Energy Salishan Conference 2018, CRA-W Grad Cohort 2017.
- Travel Grant Awards at OSDI 2020, ATC 2020, IEEE TCPP award for IPDPS 2019, SoCC 2018, ATC 2017, OSDI 2016.
- A.G. Leventis Foundation Fellowship.   2018 - 2021

SERVICE

External Service:
- Reviewer for the ACM Transactions on Architecture and Code Optimization (TACO) journal.
- Shadow PC member at EuroSys 2020.

Internal at Georgia Tech: 2017 - Present
- Executive board member of the Hellenic Society at Georgia Tech, a cultural student organization.
- Student organizer of the School of Computer Science visit days for prospective PhD students, faculty recruiting student meetings, chair candidate interview student meetings.

Internal at NTUA: 2012 - 2015
- Student organizer of activities for the IEEE NTUA Student Branch.

TEACHING EXPERIENCE

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

INVITED TALKS AND POSTERS

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

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

WORK EXPERIENCE

- **Advanced Micro Devices, Inc**   Bellevue, WA, USA
  Intern at AMD Research   Summer 2018
  Mentor: Sergey Blagodurov, Manager: Andrew Kegel
  Project: Design of Kleio; a hybrid memory page scheduler with machine intelligence.
- **VMWare**   Palo Alto, CA, USA
  Intern at the Distributed Resource Scheduler Team   Summer 2017
  Mentor: Zhelong Pan, Manager: Lan Gao
  Project: Design of a two-stage scheduler that enables efficient resource management of kubernetes containers deployed across virtual machines.
- **Dell EMC**   Santa Clara, CA, USA
  Intern at the Data Domain File System - Garbage Collection team.   Summer 2016
  Mentor: Abhinav Duggal, Manager: Aseem Vaid
  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, **Thaleia Dimitra Doudali**, Jagadish B. Kotra.
  USPTO Application No. 16/425,878.
- Multi-instance Recurrent Neural Network Prediction.
  Sergey Blagodurov, **Thaleia Dimitra Doudali**, Amin Farmahini Farahani.
  USPTO Application No. 16/220,462.
- Techniques for Container Scheduling in a Virtual Environment.
  Thaleia Dimitra Doudali, Zhelong Pan, Pranshu Jain.
  USPTO Application No. 16/034,126.