

Curriculum Vitae

Personal Data

Given name: Thanasis
Family name: Loukopoulos
Sex: Male
Date of birth: 21st July 1974
Marital status: Married (3 children)
Nationality: Greek
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Education

2002: PhD, Computer Science Dept., University of Science and Technology, Hong Kong. Thesis title: “Caching and Replication Schemes on the Internet” (under the supervision of Prof. Ishfaq Ahmad and Prof. Dimitris Papadias).
1997: Diploma in Computer Engineering, Computer Engineering and Informatics Dept., University of Patras, Greece.

Awards and Distinctions

2001: Best Paper Award at the International Conference on Parallel Processing (ICPP) for the paper entitled: “Active Caching of On-Line Analytical Processing Queries in WWW Proxies”, together with P. Kalnis, I. Ahmad and D. Papadias.
1998: Outstanding Student Performance Award (from Computer Science Dept. at HKUST).
1992: In the top-10 among ~20,000 students that took the Greek national exams for entering engineering university departments.

Professional Experience

2017-today: Assistant Prof., Dept. of Computer Science and Biomedical Informatics, University of Thessaly (UTH), (former UCG), Lamia, Greece.
2013-17: Lecturer, Dept. of Computer Science and Biomedical Informatics, University of Thessaly (UTH), (former UCG), Lamia, Greece.

- 2010-13: Assistant Professor, Dept. of Informatics and Computer Technology, Technological Educational Institute (TEI) of Lamia, Lamia, Greece.
- 2005-13: Visiting Lecturer, Dept. of Computer Science and Biomedical Informatics, Univ. of Central Greece (UCG), Lamia, Greece.
- 2003-10: Visiting Lecturer, Dept. of Informatics and Computer Technology, Technological Educational Institute (TEI) of Lamia, Lamia, Greece.
- 2004-06: Visiting Lecturer, Dept. of Computer and Communications Eng., Univ. of Thessaly (UTH), Volos, Greece.
- 2002: Visiting Scholar, Computer Science Dept., University of Science and Technology (HKUST), Hong Kong.

Grants (PI)

- 2019-today: “GeoMake-It: Development and Game Launching Suite for Location Based Games”, European Union and Greek national funds through the Operational Program Competitiveness, Entrepreneurship and Innovation, under the call RESEARCH-CREATE-INNOVATE. Role: primary proposal author, project coordination, design of GeoGame programming language specifications. (668K€)

Grants (participation)

- 2018-today: “ENORASI: Intelligent Audio-visual System Enhancing Cultural Experience and Accessibility”, European Union and Greek national funds through the Operational Program Competitiveness, Entrepreneurship and Innovation, under the call RESEARCH-CREATE-INNOVATE. Role: design and development of video transcoding module. (~1M€)
- 2017: “ENFORCE: IntelligEnt MoNitoring oF NetwORking ServiCEs” Second SoftFIRE Open Call for Experiments and Extensions, H2020. Role: design and specifications of a video coding experiment using virtualized resources. (50K€)
- 2016: Call for ebooks-Hellenic Academic Electronic Books and Help Material for Engineering and Informatics, “Introduction to SQL”. Role: Primary author and coordinator. (10K€)
- 2013-15: “GENCENG: Development of a Geo-ENvironmental information system for the region of CENTral Greece”, European Social Fund and National Resources - COOPERATION 2011. Role: project coordination, public relations, co-author of the proposal, database design, query optimization. (~500K€)
- 2013-15: “MariBrain: Ship health monitoring using wireless sensor networks”, European Social Fund and National Resources - COOPERATION 2011. Role: consulting in routing algorithms for WSNs. (~1.87M€)

- 2012-15: “Energy efficient storage and scheduling algorithms for Cloud and P2P systems”, European Social Fund and National Resources-Archimedes 3. Role: co-author of the proposal, design and development of algorithms. (82K€)
- 2008-11: “POBICOS: Platform for Opportunistic Behaviour in Incompletely Specified, Heterogeneous Object Communities”, STREP-ICT FP7. Role: design and development of energy efficient algorithms for application placement and agent migrations in sensor/actuator networks. (~2.9M€)
- 2005-08: “Algorithms for replica management in distributed systems”, European Social Fund and National Resources-EPEAEK II- Archimedes 2. Role: co-author of the proposal, design and development of algorithms for scheduling replica transfers. (70K€)
- 2004-05: “Distant learning in the Technological Educational Institute (TEI) of Lamia”, European Social Fund and National Resources-EPEAEK II. Role: specifications’ definition and quality assurance for the developed online courses. (~600K€)

Teaching Experience

- “Object Oriented Programming”, UTH, Lamia, Ac. Years: 2013-15.
- “Advanced Programming”, UTH, Lamia, Ac. Years: 2016-today.
- “Special Topics in Distributed Programming”, UTH, Lamia, Ac. Years: 2016-today.
- “Databases”, UTH, Lamia, Ac. Years: 2014-2019.
- “Introduction to Programming”, UTH, Lamia, Ac. Year: 2014-15.
- “PG: Information technology, networking infrastructure and Internet applications”, UTH, Lamia, Ac. Years: 2018-today.
- “PG: Information Systems of Biological and Medical Databases”, UTH, Lamia, Ac. Years: 2014-17.
- “Operating Systems”, UTH, Lamia, Ac. Years: 2013-today.
- “Theory of Programming Language”, UTH, Lamia, Ac. Year: 2015-16.
- “Database Management Systems”, TEI, Spring 2003, Ac. Years: 2004-13.
- “Data Structures”, TEI, Ac. Years: 2004-13.
- “Programming I”, TEI, Ac. Year: 2010-11.
- “Design and Analysis of Algorithms”, TEI, Ac. Years: 2010-12.
- “Introduction to Informatics”, UCG, Ac. Years: 2007-10.
- “Object Oriented Programming”, UCG, Ac. Years: 2005-06 and 2011-13.
- “Data Structures”, UCG, Ac. Years: 2005-07.
- “Operating Systems”, UCG, Ac. Years: 2008-13.
- “Theory of Programming Languages”, UCG, Ac. Year: 2007-08.
- “Interconnected Computing and Data Systems”, UCG, Ac. Year: 2007-08.
- “Web Technologies”, UTH, Volos, Fall 05.
- “PG: Special Topics in Distributed Systems”, UTH, Volos, Ac. Year: 2004-05.
- “Distributed Systems II”, UTH, Volos, Ac. Year: 2004-05.
- “COMP104: Programming Fundamentals and Methodology”, HKUST, Fall 2002.

Students

PhD

- Nikolaos Kalyvas (co-advisor), UTH, 2019-today.
- Dimitris Tsamis, UTH, 2018-today.
- George Papaioannou, UTH, 2017-today.
- Natalia Panagou (co-advisor), UTH, 2017-today.
- Panagiotis Papadopoulos, UTH, 2016-today.
- Dr. Nikos Tziritas (informal co-advisor), UTH, 2008-11. Current status: Researcher Chinese Academy of Sciences.

MSc

- More than 15 students. Papers: [C27], [C28], [C29], [C52] were co-authored with MSc students.

UG

- More than 20 final year projects. Papers: [C9], [C12], [C23], [C37] were co-authored with UG students.

University/Departmental Services

- Search Committee for Visiting Faculty, Dept. of Computer Science and Biomedical Informatics, UTH, Lamia, Greece, 2014-15, 2018-today.
- Search Committee for Visiting Faculty, Dept. of Informatics and Computer Technology, TEI of Lamia, Greece, 2011-13.
- Vice-Head Dept. Informatics and Computer Technology, TEI of Lamia, Greece, 2011.

Central Administration Service

- Evaluation Board (Region of Central Greece) for the Appointment of Director Managers for Primary and Secondary Education, Greece, 2016 (Ministry of Education).

Community Service

- Head of the Faculty Union, TEI of Lamia, Greece, 2011-12.

Research Interests

Research interests fall in the general area of optimization problems in distributed systems.

Current research interests include:

- Green computing with emphasis on Cloud and sensor networks.
- Placement, load balancing, server consolidation, scheduling, migration and replication problems.
- Parallel video coding.
- Communication middleware and mobile apps.
- Distributed query processing.

Past research interests include:

- Web caching.
- P2P organization.

Conference Program Committees

- BCI 2013
- CISIS 2011
- ECMS(HiPMoS) 2012
- FIT 2012-13
- GreenCom 2010-11
- GreenITEC 2011
- ICA3PP 2008-09
- ISPA 2010
- NBiS 2011
- OPTIM 2010-12
- PCI 2013-19
- SGH 2011
- SMAP 2016-19
- InCOS 2017
- CompSysTech 2017-18
- ICITS 2018
- MICRADS 2018-19
- WORLDCIST 2018-19
- SerCo 2018
- CloudCom 2018-19
- NCA 2018-19

Editorial Boards

- J. of Scalable Computing and Communications, Springer (editorial board, until 2017).
- Int. J. of Internet Protocol Technology (IJIPT), Inderscience (special issue guest editor).
- Int. J. of Distributed Systems and Technologies (IJDST), IGI Global (editorial review board).

Journal Reviewing

A regular reviewer (≥ 2 reviews per year) for:

- Elsevier JPDC

Occasionally reviewing (< 2 reviews per year) for (alphabetic order):

- Hindawi IJDSN
- IEEE TPDS
- IEEE TSC
- IEEE TKDE
- IEEE TBD
- IET Wireless Sensor Systems
- Applied Computing and Informatics (ACI), Elsevier
- J. of Real Time Image Processing, Springer
- J. of Computing, Springer
- J. of Grid Computing, Springer
- Sensors, MDPI

Scientific Indices

Scholar google (31/10/19): Citations: 926, h-index: 15, i10 index: 23

Publications

Journal Editorials

[E1] S.U. Khan, **T. Loukopoulos**, and H. Li, “Advances in Wireless, Mobile and P2P based Internet Protocols, Applications, and Architectures,” *Int. J. Internet Protocol Technology (IJIPT)*, vol. 6(1-2), pp. 1-2, 2011.

Books

[B2] **T. Loukopoulos** and E. Theodoridis. 2016 (*Greek language*). Εισαγωγή στην SQL. (Introduction to SQL) [ebook]. Athens: Hellenic Academic Libraries Link. ISBN: 978-960-603-473-2. Available online at: <http://hdl.handle.net/11419/6247>.

[B1] **T. Loukopoulos**. 2002. Caching and Replication Schemes on the Internet. Thesis (Ph.D.), Hong Kong University of Science and Technology (HKUST). Available online at: <http://dx.doi.org/10.14711/thesis-b774142>.

Book Chapters

[BC3] **T. Loukopoulos**, M. Koziri, N. Panagou, P. Papadopoulos, and D. Iakovidis, Cloud Video Guidance as “Deus ex Machina” for the Visually Impaired, in *EAI/Springer*

Innovations in Communications and Computing: Technological Trends in Improved Mobility of the Visually Impaired, pp. 127-143, 2020, ISBN 978-3-030-16449-2.

[BC2] K. Kolomvatsos, M.G. Koziri, and **T. Loukopoulos**, Chapter 11: A Recommendation System for Allocating Video Resources in Multiple Partitions, *Big Data Recommender Systems-Volume 2: Application Paradigms, IET, 2019*, e-ISBN: 9781785619786.

[BC1] N. Tziritas, S.U. Khan, and **T. Loukopoulos**, Chapter 11: On Reconfiguring Embedded Application Placement on Smart Sensing and Actuating Environments, *Intelligent Decision Systems in Large-Scale Distributed Environments Series: Studies in Computational Intelligence, Springer*, vol. 362, pp. 231-250, 2011, ISBN 978-3-642-21270-3.

Journal Papers

[J25] P. Oikonomou, A.N. Dadaliaris, K. Kolomvatsos, **T. Loukopoulos**, A. Kakarountas, and G.I. Stamoulis, "Improved Parallel Legalization Schemes for Standard Cell Placement with Obstacles," *Technologies (MDPI)*, vol. 7(1), 3, 2019.

[J24] T. Maqsood, N. Tziritas, **T. Loukopoulos**, S. A. Madani, S. U. Khan, C.-Z. Xu, and A.Y. Zomaya, "Energy and Communication Aware Task Mapping for MPSoCs," *J. Parallel and Distributed Computing (JPDC Elsevier)*, vol. 121, pp. 71-89, Nov. 2018.

[J23] M. G. Koziri, P. K. Papadopoulos, N. Tziritas, **T. Loukopoulos**, S. U. Khan, and A. Y. Zomaya, "Efficient Cloud Provisioning for Video Transcoding: Review, Open Challenges and Future Opportunities," *IEEE Internet Computing (IC)*, vol. 22(5), pp. 46-55, Sept. 2018.

[J22] E. Fatourou, N. C. Zygouris, **T. Loukopoulos**, G. I. Stamoulis, "Teaching Concurrent Programming Concepts Using Scratch in Primary School: Methodology and Evaluation," *Int. J. of Enginnering Pedagogy (iJEP)*, vol. 8(4), pp. 89-105, Aug. 2018.

[J21] N. Tziritas, M. Koziri, A. Bachtsevani, **T. Loukopoulos**, G. Stamoulis, S. U. Khan, and C.-Z. Xu, "Data Replication and Virtual Machine Migrations to Mitigate Network Overhead in Edge Computing Systems," *IEEE Trans. Sustainable Computing (TSUSC)*, vol. 2(4), pp. 320-332, Oct.-Dec. 2017.

[J20] A. N. Dadaliaris, P. Oikonomou, M. G. Koziri, E. Nerantzaki, **T. Loukopoulos**, G. I. Stamoulis, "A Connectivity-Based Legalization Scheme for Standard Cell Placement," *Circuits and Systems (SciRP CS)*, vol. 8(8), pp. 191-201, Aug. 2017.

[J19] M. G. Koziri, P. K. Papadopoulos, N. Tziritas, A. N. Dadaliaris, **T. Loukopoulos**, G. I. Stamoulis, "On Planning the Adoption of New Video Standards in Social Media Networks: A General Framework and its Application to HEVC," *Social Network Analysis and Mining (Springer SNAM)*, vol. 7(1), pp. 1-32, July 2017.

[J18] T. Maqsood, N. Tziritas, **T. Loukopoulos**, S. A. Madani, S. U. Khan, and C.-Z. Xu, "Leveraging on Deep Memory Hierarchies to Minimize Energy Consumption and

Data Access Latency on Single-Chip Cloud Computers,” *IEEE Trans. Sustainable Computing (TSUSC)*, vol. 2(2), pp. 154-166, April-June 2017.

[J17] A. N. Dadaliaris, P. Oikonomou, M. G. Koziri, E. Nerantzaki, Y. Hatzaras, D. Garyfallou, **T. Loukopoulos**, and G. I. Stamoulis, “Heuristics to Augment the Performance of Tetris Legalization: Making a Fast but Inferior Method Competitive,” *J. Low Power Electronics (JOLPE)*, vol. 13(2), pp. 220-230, 2017.

[J16] P. Oikonomou, M.G. Koziri, N. Tziritas, **T. Loukopoulos**, and C.-Z. Xu, “Scheduling Heuristics for Live Video Transcoding on Cloud Edges,” *ZTE Comminations*, vol.15(2), pp. 35-41, 2017.

[J15] N. Tziritas, S.U. Khan, **T. Loukopoulos**, S. Lalis, C.-Z. Xu, K. Li, and A.Y. Zomaya, “Online Inter-Datacenter Service Migrations,” *IEEE Trans. Cloud Comp. (TCC)*, March 2017 (preprint).

[J14] N. Tziritas, **T. Loukopoulos**, S.U. Khan, C.-Z. Xu, and A.Y. Zomaya, “On Improving Constrained Single and Group Operator Placement Using Evictions in Big Data Environments,” *IEEE Trans. Services Comp. (TSC)*, vol. 9(5), pp. 818-831, 2016.

[J13] M.G. Koziri, **T. Loukopoulos**, M. Adam, and N. Assimakis, “Speedup of Kalman and Lainiotis filters for partitionable models,” *Int. J. of Adv. Comp. Res. (IJACR)*, vol. 6(26), pp. 160-166, 2016.

[J12] N. Tziritas, **T. Loukopoulos**, S.U. Khan, and C.-Z. Xu, “Distributed Algorithms for the Operator Placement Problem,” *IEEE Trans. Comput. Social Systems (TCSS)*, vol. 2(4), pp. 182-196, 2015.

[J11] M.B. Qureshi, M.M. Dehnavi, N. Min-Allah, M.S. Qureshi, H. Hussain, I. Rentifis, N. Tziritas, **T. Loukopoulos**, S.U. Khan, C.-Z. Xu and A.Y. Zomaya, “Survey on Grid Resource Allocation Mechanisms,” *J. Grid Computing (JGC Springer)*, vol. 12(2), pp. 399-441, 2014.

[J10] N. Tziritas, **T. Loukopoulos**, S. Lalis, P. Lampsas, C.-Z. Xu, and S.U. Khan, “Single and Group Agent Migration: Algorithms, Bounds and Optimality Issues,” *IEEE Transactions on Computers (TC)*, vol. 63(12), pp. 3143-3161, 2014.

[J9] N. Tziritas, **T. Loukopoulos**, S.U. Khan, S. Lalis, C.-Z. Xu, and P. Lampsas, “Distributed Online Algorithms for the Agent Migration Problem in WSNs,” *Mobile Networks and Applications (MONET Springer)*, vol. 18(5), pp. 622-638, 2013.

[J8] N. Tziritas, S.U. Khan, C.-Z. Xu, **T. Loukopoulos**, and S. Lalis, “On Minimizing the Resource Consumption of Cloud Applications Using Process Migrations,” *J. Parallel and Distributed Computing (JPDC Elsevier)*, vol. 73(12), pp. 1690-1704, 2013.

[J7] N. Tziritas, **T. Loukopoulos**, S. Lalis, and P. Lampsas, “Algorithms for Energy-Driven Agent Placement in Wireless Embedded Systems with Memory Constraints,” *Simulation Modelling Practice and Theory (SIMPAT Elsevier)*, vol. 19(6), pp. 1445-1464, 2011.

[J6] M. Aziz, S.U. Khan, **T. Loukopoulos**, P. Bouvry, Hongxiang Li, and Juan Li, “An overview of achieving energy efficiency in on-chip networks,” *Int. J. of Communication Networks and Distributed Systems (IJCNDS)*, vol. 5(4), pp. 444-458, 2010.

[J5] **T. Loukopoulos** and I. Ahmad, “Policies for Caching OLAP Queries in Internet Proxies,” *IEEE Transactions on Parallel and Distributed Systems (TPDS)*, vol. 17(10), pp. 1124-1135, Oct. 2006.

[J4] S. Bakiras, **T. Loukopoulos**, D. Papadias, and I. Ahmad, “Adaptive Schemes for Distributed Web Caching,” *J. Parallel and Distributed Computing (JPDC Elsevier)*, vol. 65(12), pp. 1483-1496, 2005.

[J3] S. Bakiras and **T. Loukopoulos**, “Combining Replica Placement and Caching Techniques in Content Distribution Networks,” *J. Computer Communications (COMCOM Elsevier)*, vol. 28(9), pp. 1062-1073, June 2005.

[J2] **T. Loukopoulos** and I. Ahmad, “Static and Adaptive Distributed Data Replication Using Genetic Algorithms,” *J. Parallel and Distributed Computing (JPDC Elsevier)*, vol. 64(11), pp. 1270-1285, 2004.

[J1] **T. Loukopoulos** and I. Ahmad, “Optimizing Download Time of Embedded Multimedia Objects for Web Browsing,” *IEEE Transactions on Parallel and Distributed Systems (TPDS)*, vol. 15(10), pp. 934-945, Oct. 2004.

Conference Papers (peer-reviewed)

[C57] E. Fatourou, N. C. Zygouris, **T. Loukopoulos**, G.I. Stamoulis, and D. Vavougios, “More than Structured Programming in Primary School Syllabus,” *Proc. Int. Conf. on Interactive Collaborative Learning (ICL 2019)*, Springer, Bangkok, Thailand, Sept. 2019. (to appear)

[C56] N. Panagou, M. Koziri, P. K. Papadopoulos, P. Oikonomou, N. Tziritas, K. Kolomvatsos, **T. Loukopoulos**, and S. U. Khan, “Evaluation of Heterogeneous Scheduling Algorithms for Wavefront and Tile Parallelism in Video Coding,” *Proc. 2019 Int. Conf. on Internet of Things (ICIOT 2019)*, Springer, San Diego, USA, June 2019, pp. 16-27.

[C55] P. K. Papadopoulos, N. Panagou, M. Koziri, K. Kolomvatsos, **T. Loukopoulos**, and I. Anagnostopoulos, “Coding Time Prediction in H.264/HEVC Transcoding Using Macroblock Sizes,” *Proc. 14th Int. Workshop on Semantic and Social Media Adaptation and Personalization (SMAP 2019)*, IEEE, Larnaca, Cyprus, June 2019. (to appear)

[C54] N. Panagou, P. Oikonomou, P. K. Papadopoulos, M. G. Koziri, **T. Loukopoulos**, and D. Iakovidis, “On Predicting Bottlenecks in Wavefront Parallel Video Coding Using Deep Neural Networks,” *Proc. 20th Int. Conf. on Engineering Applications of Neural Networks Workshops (EANN 2019 Workshops)*, Springer, Crete, Greece, May 2019, pp. 501-510.

[C53] N. Tziritas, **T. Loukopoulos**, S.U. Khan, C.-Z. Xu, and A.Y. Zomaya, “Online Live VM Migration Algorithms to Minimize Total Migration Time and Downtime,” *Proc. 33th Int. Parallel and Distributed Processing Symp. (IPDPS 2019)*, IEEE, Rio de Janeiro, Brazil, May 2019, pp. 406-417.

- [C52] N. Panagou, P. K. Papadopoulos, M. G. Koziri and **T. Loukopoulos**, “On Evaluating the Impact of Tile Partitioning in AV1,” *Proc. 22nd Panhellenic Conf. on Informatics (PCI 2018)*, ACM, Athens, Greece, Nov. 2018, pp. 121-126.
- [C51] **T. Loukopoulos**, N. Tziritas, M. Koziri, G.I. Stamoulis and S.U. Khan, “A Pareto-Efficient Algorithm for Data Stream Processing at Network Edges”, *Proc. 10th Int. Conf. on Cloud Computing Technology and Science (Cloudcom 2018)*, IEEE, Nicosia, Cyprus, Dec. 2018, pp. 159-162.
- [C50] N. Tziritas, S. Mustafa, M. Koziri, **T. Loukopoulos**, S.U. Khan, C.-Z. Xu, and A.Y. Zomaya, “Server Consolidation in Cloud Computing”, *Proc. 24th Int. Conf. on Parallel and Distributed Systems (ICPADS 2018)*, IEEE, Singapore, Dec. 2018, pp. 194-203.
- [C49] K. Kolomvatsos, M. Koziri, and **T. Loukopoulos**, “An Intelligent Scheme for the Identification of QoS Violations in Virtualized Environments,” *Proc. 30th Int. Conf. on Tools with Artificial Intelligence (ICTAI 2018)*, IEEE, Volos, Greece, Nov. 2018, pp. 1040-1047.
- [C48] N. Tziritas, **T. Loukopoulos**, S.U. Khan, C.-Z. Xu, and A.Y. Zomaya, “A Communication-Aware Energy-Efficient Graph-Coloring Algorithm for VM Placement in Clouds,” *Proc. 18th Int. Conf. on Scalable Computing and Communications (SCALCOM 2018)*, IEEE, Guangzhou, China, Oct. 2018, pp. 1684-1691.
- [C47] K. Kolomvatsos, P. Oikonomou, M. Koziri, and **T. Loukopoulos**, “A Distributed Data Allocation Scheme for Autonomous Nodes,” *Proc. 18th Int. Conf. on Scalable Computing and Communications (SCALCOM 2018)*, IEEE, Guangzhou, China, Oct. 2018, pp. 1651-1658.
- [C46] P.K. Papadopoulos, M.G. Koziri, N. Tziritas, **T. Loukopoulos**, I. Anagnostopoulos, Petr Šaloun, and D. Andrešić, “On the Evaluation of Coarse Grained Parallelism in AV1 Video Coding,” *Proc. 13th Int. Workshop on Semantic and Social Media Adaptation and Personalization (SMAP 2018)*, IEEE, Zaragoza, Spain, Sept. 2018, pp. 55-59.
- [C45] P.K. Papadopoulos, M.G. Koziri, and **T. Loukopoulos**, “A Fast Heuristic for Tile Partitioning and Processor Assignment in HEVC,” *Proc. ICIP 2018*, IEEE, Athens, Greece, Oct. 2018, pp. 4143-4147.
- [C44] **M.G. Koziri**, P.K. Papadopoulos, and T. Loukopoulos, “Combining Tile Parallelism with Slice Partitioning in Video Coding,” *Proc. SPIE 10752, Applications of Digital Image Processing XLI*, 107520N, San Diego, USA, Sept. 2018.
- [C43] P. Oikonomou, M.G. Koziri, N. Tziritas, A.N. Dadaliaris, **T. Loukopoulos**, G.I. Stamoulis, and S.U. Khan, “Scheduling Video Transcoding Jobs in the Cloud,” *Proc. GreenCom 2018*, IEEE, Vancouver, Canada, Aug. 2018, pp. 442-449.
- [C42] K. Kolomvatsos and **T. Loukopoulos**, “Scheduling the Execution of Tasks at the Edge,” *Proc. EAIS 2018*, IEEE, Rhodes, Greece, May 2018, pp. 1-8.
- [C41] **T. Loukopoulos**, N. Tziritas, M. Koziri, G. I. Stamoulis, S.U. Khan, C.-Z. Xu, and A.Y. Zomaya, “Data Stream Processing at Network Edges,” *Proc. 8th IEEE Workshop*

on *Parallel/Distributed Computing and Optimization (PDCO 2018-IPDPS workshops)*, IEEE, Vancouver, Canada, May 2018, pp. 657-665.

[C40] P. Oikonomou, A.N. Dadaliaris, **T. Loukopoulos**, A. Kakarountas, and G.I. Stamoulis, "A Tetris-based Legalization Heuristic for Standard Cell Placement with Obstacles," *Proc. 7th Int. Conf. on Modern Circuits and Systems Technologies (MOCASST 2018)*, IEEE, Thessaloniki, Greece, May 2018, pp. 1-4.

[C39] **T. Loukopoulos**, M.G. Koziri, K. Kolomvatsos, and P. Oikonomou, "On Green Scheduling for Desktop Grids," *Proc. 6th World Conf. on Information Systems and Technologies (WorldCIST)*, Springer, Naples, Italy, March 2018, pp. 330-340.

[C38] P.K. Papadopoulos, N.C. Zygouris, M.G. Koziri, **T. Loukopoulos**, and G.I. Stamoulis, "Mobivoke: A Mobile System Architecture to Support Off School Collaborative Learning Process," *Proc. 11th Int. Conf. on Interactive Mobile Communication, Technologies and Learning (IMCL 2017)*, Springer, Thessaloniki, Greece, Nov. 2017, pp. 587-592.

[C37] D. Skoumpourdis, P. K. Papadopoulos, M. G. Koziri, N. Tziritas, **T. Loukopoulos**, and I. Anagnostopoulos, "On Improving the Speedup of Slice and Tile Level Parallelism in HEVC Using AVX2," *Proc. 21st Panhellenic Conf. on Informatics (PCI 2017)*, ACM, Larisa, Greece, Sept. 2017, pp. 52:1-52:6.

[C36] E. Fatourou, N. C. Zygouris, **T. Loukopoulos**, and G.I. Stamoulis, "Evaluation of Early Introduction to Concurrent Computing Concepts in Primary School," *Proc. Int. Conf. on Interactive Collaborative Learning (ICL 2017)*, Springer, Budapest, Hungary, Sept. 2017, pp. 543-552.

[C35] M. Koziri, P. K. Papadopoulos, N. Tziritas, N. Giachoudis, **T. Loukopoulos**, S. U. Khan, and G.I. Stamoulis, "Heuristics for Tile Parallelism in HEVC," *Proc. 25th European Signal Processing Conf. (EUSIPCO 2017)*, IEEE, Kos, Greece, Aug. 2017, pp. 1514-1518.

[C34] P. Oikonomou, M.G. Koziri, A.N. Dadaliaris, **T. Loukopoulos**, and G.I. Stamoulis, "Domocus: Lock-Free Parallel Legalization in Standard Cell Placement," *Proc. 6th Int. Conf. on Modern Circuits and Systems Technologies (MOCASST 2017)*, IEEE, Thessaloniki, Greece, May 2017, pp. 1-4.

[C33] M.G. Koziri, **T. Loukopoulos**, M. Adam, N. Assimakis, and G. Tzialas, "On the Optimal Processor Assignment for Computing the Steady State Kalman Filter in Parallel and Distributed Systems," *Proc. 5th World Conf. on Information Systems and Technologies (WorldCIST)*, Springer, Madeira, Portugal, April 2017, vol. 3, pp. 427-437.

[C32] M.G. Koziri and **T. Loukopoulos**, "Sensor Selection for Resource-Efficiency Query Execution in IoT Environments," *Proc. 8th Int. Conf. on Cloud Computing, GRIDS and Virtualization (Cloud Computing 2017)*, IARIA, Athens, Greece, Feb. 2017, no. 49.

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Recommendation Letters

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