

Anthony Chronopoulos



Visiting Professor

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Research Fields: Computational Mathematics, Numerical Analysis, Parallel and Distributed Computing, Cloud and High-Performance Computing, Machine Learning and Applications.

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Bio

Anthony Chronopoulos obtained a Ph.D. in Computer Science from the University of Illinois at Urbana-Champaign, USA with a Thesis in Numerical Linear Algebra. He is currently a visiting professor at Shanghai Institute for Mathematics and Interdisciplinary Sciences (SIMIS). He is a full professor emeritus at the Department of Computer Science, The University of Texas at San Antonio, USA. Also, he has been a visiting professor at the Department Computer Engineering & Informatics, University of Patras, Greece.

He is the author of over 200 peer-reviewed journal and conference proceedings publications (that can be accessed at the ResearchGate webpage). His most significant contributions are in (i) Communication Avoiding' (s-step) Krylov Subspace Methods (KSM) for sparse linear problems that are scalable on Parallel Computing Systems (PCS) and (ii) Game theory (GT) based load balancing (LB) algorithms for distributed computing systems (DCS) (e.g. Clouds, Grids, IoT).

Education Experience

- Aug 1981 – Jan 1987, **Ph.D.**, Major in Computer Science, **University of Illinois, Urbana, IL, USA**. Advisor: Professor Dr. C. W. Gear
- Sept 1979 – June 1981, **M.S.**, Major in Applied Mathematics, **University of Minnesota, Twin Cities, MN, USA**
- Oct 1974 – June 1979, **B.S.** Major in Mathematics, **University of Athens, GREECE**

Work Experience

- **August 2025 –**, **Visiting Professor** of Shanghai Institute for Mathematics and Interdisciplinary Sciences, Shanghai China.
- **August 2017 –**, **Professor (Research) Emeritus**, The University of Texas, San Antonio, TX, USA
- **August 2007 – December 2016** Professor at University of Texas, San Antonio, TX, USA
- **August 1998 – July 2006 Associate professor**, The University of Texas, San Antonio, TX, USA
- **August 1994 – July 1998 Associate professor**, Wayne State University, Detroit, MI, USA
- **January 1987 – July 1994 Assistant professor**, University of Minnesota, Twin Cities, MN, USA

Honors and Awards

- Fellow of Institute of Mathematics and its Applications (**FIMA**, 2023)
- Fellow of the American Association for the Advancement of Science (**FAAAS**, 2022) ('For distinguished contributions to the field of scientific computing, particularly iterative methods for sparse algebraic problems and computer methods applied to engineering')
- Member of the European Academy of Sciences and Arts (**Euro-Acad**, 2021)
- Fellow of the Institute of Engineering and Technology (**FIET/IEE**, 2017)

Editorial Work

- Numerical Linear Algebra and Applications, Associate editor, 2018-now.

PhD Students (co-)advised

- H. S. Kaveh (co-advised with prof. M. Hajarian) (2025), Department of Applied Mathematics, Shahid Beheshti University, Tehran, Iran.
- H. Bozorgmanesh (co-advised with prof. M. Hajarian) (2021), Department of Applied Mathematics, Shahid Beheshti University, Tehran, Iran, 2021 (Presently: Postdoctoral Oulu University, Finland).
- Yiming Han (2014), Department of Computer Science, The University of Texas at San Antonio, USA, 2014. (employed at Facebook/Meta).
- Dan Grosu (2003), Department of Computer Science, The University of Texas at San Antonio, USA (Presently: Full Professor, CS Dept, Wayne State University, USA).
- Satish Penmatsa (2007), Department of Computer Science, The University of Texas at San Antonio, USA (Presently: Full Professor and Chair, CS Dept, Framingham State University, USA).

Referred Journal Publications

- [J132] H Shokri Kaveh, M Hajarian, AT Chronopoulos, D Slavchev, Z Zlatev, Regularized variable s-step CG and CR algorithms to solve shifted linear systems. *Engineering Computations* 42 (9), 3521-3542, 2 December 2025.
<https://doi.org/10.1108/EC-11-2024-1039>
- [J131] C Li, W Chen, G Liu, C Tan, L Liu, W Ye, AT Chronopoulos, VM-ORAM: A Novel High-Performance ORAM Architecture for Efficient Data Integrity Verification in Industrial Cloud, *IEEE Transactions on Industrial Informatics* PP(99):1-11, 7 November 2025.
<https://doi.org/10.1109/tii.2025.3624225>
- [J130] H. S. Kaveh, M. Hajarian, A. T. Chronopoulos, Improving communication in conjugate gradient solvers using regularized variable s-step approach for solving linear system of equations. *FILOMAT*, 39(34), December 2025
<https://doi.org/10.2298/FIL2534167S>
- [J129] H. S. Kaveh, M. Hajarian, A. T. Chronopoulos, Variable s-Step Technique for New Conjugate Residual Algorithms for Solving Non-Square Linear Systems Arising in Control Problems, *Numer. Math. Theor. Meth. Appl.*, 18(3), 598-618, August 2025
<https://doi:10.4208/nmtma.OA-2024-0109>
- [J128] Nie, Z., Xiao, Z., Wang, T., Chronopoulos, A.T., Andonie, R. and Mosavi, A., TIPS: A Text Interaction Evaluation Metric for Learning Model Interpretation. *Expert Systems with Applications*, 287, p.128184, 25 August 2025.
<https://doi.org/10.1016/j.eswa.2025.128184>
- [J127] H. S. Kaveh, M. Hajarian, A. T. Chronopoulos, Variable s-step generalized semi-conjugate gradient algorithm for solving nonsymmetric linear systems arising in signal recovery, *Journal of the Franklin Institute*, 362(12): 107870, 1 August 2025.
<https://doi.org/10.1016/j.jfranklin.2025.107870>
- [J126] W. Ni, Y. He, H. Xiao, A. T. Chronopoulos, P. A. Ioannou, Spectral Efficiency Analysis for Cell-Free Massive MIMO Systems with Low-Resolution ADCs Under Imperfect CSI, *IEEE Internet of Things Journal*, 12(15), 31971-31985, 1 August 2025.
<https://doi.org/10.1109/jiot.2025.3575754>
- [J125] H. S. Kaveh, M. Hajarian, A. T. Chronopoulos, Variable s-step technique for Planar algorithms in solving indefinite linear systems, *Computational and Applied Mathematics*, 44:306,1-19, 2 June 2025.
<https://doi.org/10.1007/s40314-025-03243-6>
- [J124] W. Ni, H. Xiao, M. Zhou, A. T. Chronopoulos, Z. Zhang, User Association and Small Base Stations Configuration for Energy Efficiency Maximization in Hybrid-Energy Heterogeneous Cellular Networks, *IEEE Internet of Things Journal*, 12 (8), 9858-9871, 15 April 2025.
DOI: [10.1109/JIOT.2024.3510785](https://doi.org/10.1109/JIOT.2024.3510785)
- [J123] H. S. Kaveh, M. Hajarian, A. T. Chronopoulos, Efficient image reconstruction via regularized variable s-step conjugate gradient method for Sylvester matrix equations, *Journal of the Franklin Institute*, 362(6): 107634, 1 April 2025.
<https://doi.org/10.1016/j.jfranklin.2025.107634>
- [J122] W. Ni, H. Xiao, X. Liu, A. T. Chronopoulos, P. A. Ioannou, Power-Aware User Association and Content Caching Algorithm for Delay-Energy Tradeoff in Cache-Enabled Heterogeneous Cellular Networks, *IEEE Systems Journal*, 19(1), 246-257, 1 March 2025
DOI: [10.1109/JSYST.2024.3524624](https://doi.org/10.1109/JSYST.2024.3524624)
- [J121] Li, A. He, G. Liu, Y. Wen, A. T. Chronopoulos, A. Giannakos, RFL-APIA: A Comprehensive Framework for Mitigating Poisoning Attacks and Promoting Model Aggregation in IIoT Federated Learning, *IEEE Transactions on Industrial Informatics*, 20(11), 12935-12944, 11 Nov 2024.
DOI: [10.1109/TII.2024.3431020](https://doi.org/10.1109/TII.2024.3431020)
- [J120] H. S. Kaveh, M. Hajarian, A. T. Chronopoulos, Developing variable s-step CGNE and CGNR algorithms for non-symmetric linear systems, *Journal of the Franklin Institute*, 361(2):107071, September 2024.
<https://doi.org/10.1016/j.jfranklin.2024.107071>
- [J119] H. S. Kaveh, M. Hajarian, A. T. Chronopoulos, Finding solution of linear systems via new forms of BiCG, BiCGstab and CGS algorithms, *Computational and Applied Mathematics*. 43, article 360, 7 Aug. 2024.
<https://link.springer.com/article/10.1007/s40314-024-02867-4>
- [J118] J. Ni, S. Mao, H. Xiao, A. T. Chronopoulos, Quantum Key Distribution with Relay-Assisted Scheme over Long Atmospheric Channels, *International Journal of Quantum Information*, 22(7), 2450017, April 2024.
<https://doi.org/10.1142/S0219749924500175>
- [J117] Z. Xiao, W. Chen, Y. Qin, F. Wu, A. T. Chronopoulos, A. Nicolau, K. Li, NGLIC: A Nonaligned-Row Legalization Approach for 3D Inter-Die Connection, *IEEE Transactions on Computer-Aided Design of Integrated Circuits and Systems*, 43(2), 404-416, February 2024
<https://doi.org/10.1109/TCAD.2023.3317794>

- [J116] Z. Tong, X. Deng, Z. Xiao, D. He, A. T. Chronopoulos, S. Dustdar, A Bilateral Game Approach for Task Outsourcing in Multi-access Edge Computing, *IEEE Transactions on Network and Service Management*, 21(1), 266-279, February 2024
DOI: [10.1109/TNSM.2023.3296676](https://doi.org/10.1109/TNSM.2023.3296676)
- [J115] M. A. Rezaei et al., Reliability Calculation Improvement of Electrolytic Capacitor-Banks Used in Energy Storage Applications Based on Internal Capacitor Faults and Degradation, *IEEE Access*, 12, 13146–13164, 9 January 2024
DOI: [10.1109/ACCESS.2024.3351604](https://doi.org/10.1109/ACCESS.2024.3351604)
- [J114] T. Abe, A. T. Chronopoulos, The generalized residual cutting method and its convergence characteristics, *Numer Linear Algebra Appl.*, 30(6), e2517, December 2023
<https://doi.org/10.1002/nla.2517>
- [J113] C. Li, A. He, Y. Wen, G. Liu and A. T. Chronopoulos, Optimal Trading Mechanism Based on Differential Privacy Protection and Stackelberg Game in Big Data Market, *IEEE Transactions on Services Computing*, 16 (5), 3550 – 3563, Sept.-Oct. 2023
DOI: [10.1109/TSC.2023.3242338](https://doi.org/10.1109/TSC.2023.3242338)
- [J112] Band, Shahab S., Atefeh Yarahmadi, Chung-Chian Hsu, Meghdad Biyari, Mehdi Sookhak, Rasoul Ameri, Iman Dehzangi, A. T. Chronopoulos, and Huey-Wen Liang, Application of explainable artificial intelligence in medical health: A systematic review of interpretability methods, *Informatics in Medicine Unlocked*, 40(2023): 101286, 10 June 2023
<https://doi.org/10.1016/j.imu.2023.101286>
- [J111] A. Kishor, R. Niyogi, A. T. Chronopoulos, A. Zomaya, Latency and Energy-Aware Load Balancing in Cloud Data Centers: A Bargaining Game Based Approach, *IEEE Transactions on Cloud Computing*, 11, 927-941, Jan.-March 2023
DOI: [10.1109/TCC.2021.3121481](https://doi.org/10.1109/TCC.2021.3121481)
- [J110] Z. Xiao, P. Wei, A. T. Chronopoulos, A. C. Elster, A Distributed Integrated Feature Selection Scheme for Column Subset Selection, *IEEE Transactions on Knowledge and Data Engineering*, 35:3, 2193 – 2205, March 1, 2023.
DOI: [10.1109/TKDE.2021.3108146](https://doi.org/10.1109/TKDE.2021.3108146)
- [J109] Z. Xiao, Z. Nie, C. Song, A. T. Chronopoulos, An extended attention mechanism for scene text recognition, *Expert Systems with Applications*, 203, 117377, October 2022
<https://doi.org/10.1016/j.eswa.2022.117377>
- [J108] H. Xiao, W. Zhang, A. T. Chronopoulos, Joint Subchannel and Power Allocation for Energy Efficiency Optimization in NOMA Heterogeneous Networks with Energy Harvesting, *IEEE Systems Journal*, 16(3), 4904-4915, Sept. 2022
DOI: [10.1109/JSYST.2022.3141522](https://doi.org/10.1109/JSYST.2022.3141522)
- [J107] A. Badshah, A. Ghani, A. Daud, A. T. Chronopoulos, A. Jabal, Revenue maximization approaches in IaaS clouds: Research challenges and opportunities, *Trans. on Emerging Telecommunications Technologies*, 33(7), July 2022
<https://doi.org/10.1002/ett.4492>
- [J106] Z Xiao, M Wang, AT Chronopoulos, J Jiang, A method for reducing cloud service request peaks based on game theory, *Journal of Parallel and Distributed Computing*, 165, 107-119, July 2022
<https://doi.org/10.1016/j.jpdc.2022.03.002>
- [J105] S. S. Band, S. Ardabili, M. Sookhak, A. T. Chronopoulos, S. Elnaifar, M. Moslehpour, M. Csaba, B. Torok, H. T. Pai, A. Mosavi. When Smart Cities Get Smarter via Machine Learning: An In-depth Literature Review. 10, 60985-61015, *IEEE Access*, June 2022
DOI: [10.1109/ACCESS.2022.3181718](https://doi.org/10.1109/ACCESS.2022.3181718)
- [J104] H. Bozorgmanesh, M. Hajarian, A. T. Chronopoulos, The Relation Between a Tensor and Its Associated Semi-Symmetric Form, *Numerical Mathematics: Theory, Methods and Applications*, 15, 530-564, March 2022
DOI: [10.4208/nmtma.OA-2021-0164](https://doi.org/10.4208/nmtma.OA-2021-0164)
- [J103] G. Liu, Z. Xiao, A. Chronopoulos, C. Liu and Z. Tang, A Many-to-Many Demand and Response Hybrid Game Method for Cloud Environments, *IEEE Transactions on Cloud Computing*, 10(1), pp. 158-171, Jan-March 2022
DOI: [10.1109/TCC.2019.2956134](https://doi.org/10.1109/TCC.2019.2956134)
- [J102] H. Bozorgmanesh, A. T. Chronopoulos, On rank decomposition and semi-symmetric rank decomposition of semi-symmetric tensors, *Computational Mathematics and Computer Modeling with Applications*, 1(1), 37-47, January 7, 2022
DOI: [10.52547/CMCMA.1.1.37](https://doi.org/10.52547/CMCMA.1.1.37)
- [J101] Habibi, Hossein, Abbas Rasoolzadegan, Amir Mashmool, Shahab S. Band, A. T. Chronopoulos, and Amir Mosavi. SaaSRec+: a new context-aware recommendation method for SaaS services, *Mathematical Biosciences and Engineering*, 19(2), 1471-1495, 2022
DOI: [10.3934/mbe.2022068](https://doi.org/10.3934/mbe.2022068)
- [J100] H. Xiao, W. Zhang, W. Li, A. T. Chronopoulos and Z. Zhang, Joint Clustering and Blockchain for Real-time Information Security Transmission at the Crossroads in C-V2X Networks, *IEEE Internet of Things Journal*, 8:18,13926-13938, October 15, 2021
DOI: [10.1109/IJOT.2021.3068175](https://doi.org/10.1109/IJOT.2021.3068175)
- [J99] H. Xiao, Q. Zhang, S. Ouyang and A. T. Chronopoulos, Connectivity Probability Analysis for VANET Freeway Traffic Using a Cell Transmission Model, *IEEE Systems Journal*, 15(2), 1815-1824, June 2021
DOI: [10.1109/JSYST.2020.3001938](https://doi.org/10.1109/JSYST.2020.3001938)
- [J98] M. Hajarian, A. T. Chronopoulos, Least-squares partially bisymmetric solutions of coupled Sylvester matrix equations accompanied by a prescribed submatrix constraint. *Mathematical Methods in the Applied Sciences*, 44(6), 4297-4315, April 2021
<https://doi.org/10.1002/mma.7030>
- [J97] S. M. Mohsin, I. A. Khan, S. M. A. Akber, S. Shamshirband, A. T. Chronopoulos, Exploring the RFID mutual authentication domain, *International Journal of Computers and Applications*, 43:2, 127-141, February 2021
DOI: [10.1080/1206212X.2018.1533614](https://doi.org/10.1080/1206212X.2018.1533614)
- [J96] S. Shamshirband, M. Fathi, A. Dehzangi, A. T. Chronopoulos, H. Alinejad-Rokny, A review on deep learning approaches in healthcare systems: Taxonomies, challenges, and open issues, *Journal of Biomedical Informatics*, 113, January 2021, 103627
<https://doi.org/10.1016/j.jbi.2020.103627>
- [J95] H. Xiao, X. Liu, Qiuyu Zhang, A. T. Chronopoulos. Connectivity probability analysis for freeway vehicle scenarios in vehicular networks, *Wireless Networks* 27, 465–474, January 2021
<https://doi.org/10.1007/s11276-020-02464-3>

- [J94] S. Shamshirband, M. Fathi, A. T. Chronopoulos, A. Montieri, F. Palumbo, A. Pescapè, Computational intelligence intrusion detection techniques in mobile cloud computing environments: Review, taxonomy, and open research issues, *Journal of Information Security and Applications*, 55, December 2020
<https://doi.org/10.1016/j.jisa.2020.102582>
- [J93] H. Xiao, D. Zhu and A. T. Chronopoulos, Power Allocation With Energy Efficiency Optimization in Cellular D2D-Based V2X Communication Network, *IEEE Trans. on Intelligent Transportation Systems*, 21 (12), pp. 4947-4957, December 2020
 doi: [10.1109/TITS.2019.2945770](https://doi.org/10.1109/TITS.2019.2945770)
- [J92] H. Xiao, X. Zhang, A. T. Chronopoulos, Z. Zhang, H. Liu and S. Ouyang, Resource Management for Multi-User-Centric V2X Communication in Dynamic Virtual-Cell Based Ultra-Dense Networks, *IEEE Transactions on Communications*, 68(10), 6346 – 6358, October 2020
 DOI: [10.1109/TCOMM.2020.3007612](https://doi.org/10.1109/TCOMM.2020.3007612)
- [J91] X. Liu, H. Xiao and A. Chronopoulos, Joint Mode Selection and Power Control for Interference Management in D2D-Enabled Heterogeneous Cellular Networks, *IEEE Transactions on Vehicular Technology*, 69(9), 9707 – 9719, Sept 2020
 DOI: [10.1109/TVT.2020.3001874](https://doi.org/10.1109/TVT.2020.3001874)
- [J90] A. Salah, Kenli Li, Q. Liao, M. Hashem, Z. Li, A. T. Chronopoulos, A. Y. Zomaya, A Time-space Efficient Algorithm for Parallel k-way In-place Merging based on Sequence Partitioning and Perfect Shuffle, *ACM Trans. Parallel Comput. (TOPCS)* 7(2), Article 11, p. 1-23, June 2020
 DOI: <https://dl.acm.org/doi/fullHtml/10.1145/3391443>
- [J89] M. Amirinasab, S. Shamshirband, A. T. Chronopoulos, A. Mosavi, N. Nabipour, Energy-Efficient Method for Wireless Sensor Networks Low-Power Radio Operation in Internet of Things, *Electronics*, 9, 320, 17 Jan 2020
 DOI: <https://doi.org/10.3390/electronics9020320>
- [J88] G. Liu, Z. Xiao, G. Tan, Kenli Li, A T Chronopoulos, Game Theory-Based Optimization of Distributed Idle Computing Resources in Cloud Environments, *Theoretical Computer Science*, 806, 468-488, 2 February 2020
 DOI: <https://doi.org/10.1016/j.tcs.2019.08.019>
- [J87] H. Bozorgmanesh, M. Hajarian, A. T. Chronopoulos, Interval tensors and their application in solving multi-linear systems of equations, *Computers & Mathematics with Applications*, 79 (3), 697-715, 1 February 2020
<https://doi.org/10.1016/j.camwa.2019.07.024>
- [J86] B. Qiu, H. Xiao, A. T. Chronopoulos, D. Zhou and S. Ouyang, Optimal Access Scheme for Security Provisioning of C-V2X Computation Offloading Network with Imperfect CSI, *IEEE Access*, 8, 9680-9691, 8 Jan 2020
 DOI: [10.1109/ACCESS.2020.2964795](https://doi.org/10.1109/ACCESS.2020.2964795)
- [J845] H. Xiao, A. Chronopoulos, Z. Zhang, An Efficient Security Scheme for Vehicular Communication Using A Quantum Secret Sharing Method, *IEEE Transactions on Vehicular Technology*, 69(1), 1101-1105, Jan. 2020
 DOI: [10.1109/TVT.2019.2951474](https://doi.org/10.1109/TVT.2019.2951474)
- [J84] A. Badshah, A. Ghani, S. Shamshirband, A. T. Chronopoulos, Optimizing IaaS Provider Revenue through Customer Satisfaction and Efficient Resource Provisioning in Cloud Computing, *IET Communications*, 13(9), 2913-2922, 19 Nov 2019
 DOI: [10.1049/iet-com.2019.0554](https://doi.org/10.1049/iet-com.2019.0554)
- [J83] A. A. Abbasi, A. Abbasi, S. Shamshirband, A T Chronopoulos, V. Persico, A. Pescapè, Software-defined Cloud Computing: A Systematic Review on Latest Trends and Developments, *IEEE Access*, 7, 93294 – 93314, 10 July 2019
 doi: [10.1109/ACCESS.2019.2927822](https://doi.org/10.1109/ACCESS.2019.2927822)
- [J82] H. Xiao, Y. Chen, S. Ouyang, A. T. Chronopoulos, Power Control for Clustering Car-following V2X Communication System with Non-Orthogonal Multiple Access, *IEEE Access*, 7(1), 68160-68171, 6 June 2019
 doi: [10.1109/ACCESS.2019.2918345](https://doi.org/10.1109/ACCESS.2019.2918345)
- [J81] H. Xiao, Y. Chen, Q. Zhang, A. T. Chronopoulos, Z. Zhang and S. Ouyang, Joint Clustering and Power Allocation for the Cross Roads Congestion Scenarios in Cooperative Vehicular Networks, *IEEE Transactions on Intelligent Transportation Systems*, 20(6), 2267-2277, June 2019
 doi: [10.1109/TITS.2018.2866236](https://doi.org/10.1109/TITS.2018.2866236)
- [J80] Nasr, A.A., Chronopoulos, A.T., El-Bahnasawy, N.A. et al., A novel water pressure change optimization technique for solving scheduling problem in cloud computing, *Cluster Computing*, 22(2), 601-617, June 2019
<https://doi.org/10.1007/s10586-018-2867-7>
- [J79] M. Doustagh, M. Nazari, A. Mosavi, S. Shamshirband, A. T. Chronopoulos. Feature weighting using a clustering approach, *International Journal of Modeling and Optimization*, 9(2), 67-71, April 2019
 DOI: [10.7763/IJMO.2019.V9.686](https://doi.org/10.7763/IJMO.2019.V9.686)
- [J78] Xiao, Hailin, Shan Ouyang, A. T. Chronopoulos. Analysis of polarization coding for subcarrier multiplexing quantum key distribution. *Quantum Information Processing* 18:130, 22 March 2019
<https://doi.org/10.1007/s11128-019-2245-2>
- [J77] D. Sakhawat, A N. Khan, M. Aslam, A. T. Chronopoulos, Agent-based ARP Cache Poisoning Detection (AACPD) in Switched LAN Environments, 8(1), 67 – 73, *IET Networks*, January 2019
 DOI: [10.1049/iet-net.2018.5084](https://doi.org/10.1049/iet-net.2018.5084)
- [J76] Wang, Y. X., Zhang, L. L., Liu, W., Cheng, X. H., Zhuang, Y., Chronopoulos, A. T. Performance optimizations for scalable CFD applications on hybrid CPU+MIC heterogeneous computing system with millions of cores, *Computers & Fluids*, 173, 226-236, 15 Sept 2018
<https://doi.org/10.1016/j.compfluid.2018.03.005>
- [J75] H. Xiao, Z. Zhang, A. T. Chronopoulos, Performance Analysis of Multi-Source Multi-Destination Cooperative Vehicular Networks with Hybrid Decode-Amplify-Forward Cooperative Relaying Protocol, *IEEE Trans. Intelligent Transp. Systems*, 19(9), 3081-3086, Sept 2018
<https://doi.org/10.1109/TITS.2017.2766267>
- [J74] Khurshid, W., Kiah, M. L. M., Khan, I. A., Salleh, R., Chronopoulos, A. T., Madani, S. A., Comparative study of congestion notification techniques for hop-by-hop-based flow control in data centre Ethernet, *IET Networks*, 7(4), 248 – 257, Jul 2018

DOI: [10.1049/iet-net.2017.0101](https://doi.org/10.1049/iet-net.2017.0101)

[J73] Yan, X., Xiao, H., Wang, C-X., An, K., Chronopoulos, A. T., Zheng, G., Performance Analysis of NOMA-Based Land Mobile Satellite Networks. *IEEE Access*, 6, 31327-31339, 26 Jun 2018

DOI: [10.1109/ACCESS.2018.2844783](https://doi.org/10.1109/ACCESS.2018.2844783)

[J72] B Nazir, F Ishaq, S Shamshirband, AT Chronopoulos,

The Impact of the Implementation Cost of Replication in Data Grid Job Scheduling, *Mathematical and Computational Applications*, 23(2), 28 , 25 May 2018.

<https://doi.org/10.3390/mca23020028>

[J71] S. Agaian, M. Madhukar, A. T. Chronopoulos, A New Acute Leukemia Automated Classification System, *Computer Methods in Biomechanics and Biomed. Engineering: Imaging & Visualization*, 6(3), 303–314, April 2018

<http://dx.doi.org/10.1080/21681163.2016.1234948>

[J70] H Bashirpour, S. Bashirpour, S. Shamshirband, A. T. Chronopoulos,

An Improved Digital Signature Protocol to Multi-User Broadcast Authentication Based on Elliptic Curve Cryptography in Wireless Sensor Networks (WSNs), *Mathematical and Computational Applications*, 23(2), 17, 21 March 2018

<https://doi.org/10.3390/mca23020017>

[J69] A. Kalantari A. Kamsin, S. Shamshirband, A. Gani, H. Alinejad-Rokny, A. T. Chronopoulos,

Computational Intelligence Approaches for Classification of Medical Data: State-of-the-art, Future Challenges and Research Directions, *Neurocomputing*, 276, 2-22, 7 Feb 2018

<https://doi.org/10.1016/j.neucom.2017.01.126>

[J68] Yusoff, Z., Kamsin, A., Shamshirband, S. and Chronopoulos, A.T., A survey of educational games as interaction design tools for affective learning: Thematic analysis taxonomy, *Education and Information Technologies* 23 (1), 393-418, Jan 2018

<https://doi.org/10.1007/s10639-017-9610-5>

[J67] E. Babaei, N. B. Anuar, A. W. A. Wahab, S. Shamshirband, A. T. Chronopoulos, An Overview of Audio Event Detection Methods from Feature Extraction to Classification, *Applied Artificial Intel.*, 31(9-10), 661-714, Dec 2017

<https://doi.org/10.1080/08839514.2018.1430469>

[J66] B. Jan, F. G. Khan, B. Montrucchio, A. T. Chronopoulos, S. Shamshirband, A. N. Khan,

Introducing ToPe-FFT; an OpenCL based FFT Library targeting GPUs, *Concurrency and Computation: Practice and Experience*, 29(21), 10 Nov 2017

<https://doi.org/10.1002/cpe.4256>

[J65] Khan, A. N., Ali, M., Khan, F. G., Khan, I. A., Jadoon, W., Shamshirband, S., Chronopoulos, A. T. A comparative study and workload distribution model for re-encryption schemes in a mobile cloud computing environment. *International Journal of Communication Systems*. 30(16), 1-18, 10 Nov. 2017

<https://doi.org/10.1002/dac.3308>

[J64] Xiao, H., Zhang, Z., Chronopoulos, A. T. New construction of quantum error-avoiding codes via group representation of quantum stabilizer codes. *The European Physical Journal C*, 77, 667, Oct. 2017

<https://doi.org/10.1140/epjc/s10052-017-5246-2>

[J63] Tripathi, R., Vignesh, S., Tamarapalli, V., Chronopoulos, A.T. and Siar, H., Non-cooperative power and latency aware load balancing in distributed data centers, *Journal of Parallel and Dist. Comp.*, 107, 76-86, Sept 2017

<https://doi.org/10.1016/j.jpdc.2017.04.006>

[J62] M Faiz, N B Anuar, A W A Wahab, S Shamshirband, A T Chronopoulos, Source Camera Identification: A Distributed Computing Approach Using Hadoop, *Journal of Cloud Computing* 6,18 , 15 Aug 2017.

<https://doi.org/10.1186/s13677-017-0088-x>

[J61] Khan, S., Nazir, B., Khan, I. A., Shashirband, S., & Chronopoulos, A. T. Load Balancing in Grid Computing: Taxonomy, Trends and Opportunities. *Journal of Network and Computer Applications*. 88, 99-111, 15 June 2017

<https://doi.org/10.1016/j.jnca.2017.02.013>

[J60] Y Han, A T Chronopoulos , Scalable Loop Self-Scheduling Schemes for Large-Scale Clusters and Cloud Systems, *International Journal of Parallel Programming*, 45, 595–611, 11 May 2017

<https://doi.org/10.1007/s10766-016-0434-5>

[J59] F G Khan, B Montrucchio, B Jan, A N Khan, W Jadoon, S Shamshirband, A. T. Chronopoulos, I A Khan, An Optimized Magnetostatic Field Solver on GPU Using Open Computing Language, *Concurrency and Computation: Practice and Experience*, 29(5), 10 March 2017

<https://doi.org/10.1002/cpe.3981>

[J58] H. Siar, K. Kourosh, A. T. Chronopoulos, A Combination of Game Theory and Genetic Algorithm for Load Balancing in Distributed Computer Systems, *Int. J. Advanced Intelligence Paradigms*, 9(1), 82-95, 2017

<https://doi.org/10.1504/IJAIP.2017.081181>

[J57] R Ranjan, Y Feng, A Chronopoulos, Augmented Stabilized and Galerkin Least Squares Formulations, *Journal of Mathematics Research*, 8(6), December 2016

<http://dx.doi.org/10.5539/jmr.v8n6p1> Canadian Center of Science and Education, ISSN 1916-9795.

[J56] H. Zareamoghaddam , A.T. Chronopoulos, M. Nouri Kadijani, Z. Zareamoghaddam, Uzawa Algorithms for Fully Fuzzy Linear Systems, *International Journal of Computational Intelligence Systems*, 9(5), 971-983, 2016

<https://doi.org/10.1080/18756891.2016.1237194>

[J55] R Ranjan, A Chronopoulos, Y Feng, Computational Algorithms for Solving Spectral/hp Stabilized Incompressible Flow Problems, *Journal of Mathematics Research*, 8(4), 21-39, Aug 2016

<http://dx.doi.org/10.5539/jmr.v8n4p21>

[J54] S. Stathakis, F. Balbi, A. T. Chronopoulos, N. Papanikolaou, Monte Carlo modeling of linear accelerator using distributed computing, *JBUN (Journal of Balkan Union of Oncology)*, 21(1), 252-260, Jan.-Feb. 2016

<https://pubmed.ncbi.nlm.nih.gov/27061555/>

[J53] H. Siar, K. Kourosh, A. T. Chronopoulos, An effective game theoretic static load balancing applied to distributed computing, *Cluster Computing*, 18 (4), 1609-1623, Dec 2015

<https://doi.org/10.1007/s10586-015-0486-0>

[J52] M. Meshabi, A. M. Rahmani, A. T. Chronopoulos, Data Placement using Dewey Encoding in a Hierarchical Data Grid, *Journal of Network and Computer Applications*, 49, 88-98, March 2015

<https://doi.org/10.1016/j.jnca.2014.11.009>

[J51] S. Agaian, M. Madhukar, A. T. Chronopoulos, Automated Screening System for Acute Myelogenous Leukemia Detection in Blood Microscopic Images, *IEEE Systems Journal*, 8(3), 995–1004, 2014

<https://doi.org/10.1109/JSYST.2014.2308452>

[J50] S. Penmatsa, A. T. Chronopoulos, Cost minimization in utility computing systems, *Concurrency and Computation: Practice and Experience*, 16(1), 287-307, 2014

<https://doi.org/10.1002/cpe.2984>

[J49] I. Riakiotakis, F. M. Ciorba, T. Andronikos, G. Papakonstantinou, A. T. Chronopoulos, Towards the optimal synchronization granularity for dynamic scheduling of pipelined computations on heterogeneous computing systems, *Concurrency and Computation: Practice and Experience*, 24 (18), 2302-2327, 2012

<https://doi.org/10.1002/cpe.2812>

[J48] S. Penmatsa, A. T. Chronopoulos, Game-theoretic static load balancing for distributed systems, *Journal of Parallel and Distributed Computing*, 71(4), 537-555, 2011

<https://doi.org/10.1016/j.jpdc.2010.11.016>

[J47] A. Bassias, A. T. Chronopoulos, Statistical Performance Analysis of the MUSIC Algorithm in Angular Sectors, *Journal of Signal Processing*, 15(1), 37-46, 2011

<http://ci.nii.ac.jp/naid/40018702235>

[J46] T. Andronikos, F. M. Ciorba, I. Riakiotakis, G. Papakonstantinou, A. T. Chronopoulos, Studying the impact of synchronization frequency on scheduling tasks with dependencies in heterogeneous systems, *Performance Evaluation*, 67(12), 1324-1339, 2010

<https://doi.org/10.1016/j.peva.2010.08.020>

[J45] M. Musku, A. T. Chronopoulos, D. Popescu, A. Stefanescu, A game-theoretic approach to joint rate and power control for uplink CDMA communications, *IEEE Transactions on Communications*, 58(3), 923-932, 2010

<https://doi.org/10.1109/TCOMM.2010.03.070205>

[J44] A. T. Chronopoulos, A. Kucherov, Block s-step Krylov iterative methods, *Numerical Linear Algebra with Applications*, 17(1), 3-15, 2010

<https://doi.org/10.1002/nla.643>

[J43] C. Tang, D. O. Wu, A. T. Chronopoulos, C.S. Raghavendra, Efficient multi-party digital signature using adaptive secret sharing for low-power devices in wireless networks, *IEEE Transactions on Wireless Communications*, 8(2), 882-889, 2009

DOI: [10.1109/TWC.2008.071286](https://doi.org/10.1109/TWC.2008.071286)

[J42] A. M. Castaldo, R. C. Whaley, A. T. Chronopoulos, Reducing Floating Point Error in Dot Product using the Superblock Family of Algorithms, *SIAM J. Scientific Computing*, 31(2), 1156-1174, 2008

<https://doi.org/10.1137/070679946>

[J41] D. Grosu, A.T. Chronopoulos, M. Y. Leung, Cooperative load balancing in distributed systems, *Concurrency and Computation-Practice and Experience*, 20(16), 1953-1976, 2008

<https://doi.org/10.1002/cpe.1331>

[J40] A. T. Chronopoulos, M. Musku, S. Penmatsa, D. Popescu, Spectrum Load Balancing for Medium Access in Cognitive Radio Systems, *IEEE Communication Letters*, 12(5), 353-355, 2008

<https://doi.org/10.1109/LCOMM.2008.071968>

[J39] F. M. Ciorba, T. Andronikos, I. Riakiotakis, G. Papakonstantinou, A. T. Chronopoulos, Enhancing self-scheduling algorithms via synchronization and weighting, *J. of Parallel and Dist. Computing*, 68(2), 246-264, 2008

<https://doi.org/10.1016/j.jpdc.2007.07.003>

[J38] D. Grosu, A.T. Chronopoulos, A Truthful Load Balancing Mechanism with Verification, *Parallel Processing Letters*, 16(1), 3-17, 2006

<https://doi.org/10.1142/S0129626406002435>

[J37] R. Andonie, A. T. Chronopoulos, D. Grosu, H. Galmeanu, An efficient concurrent implementation of a neural network algorithm, *Concurrency and Computation-Practice and Experience*, 18(12), 1559-1573, 2006

<https://doi.org/10.1002/cpe.987>

[J36] A. T. Chronopoulos, S. Penmatsa, Jianhua Xu, S. Ali, Distributed loop-scheduling schemes for heterogeneous computer systems, *Concurrency and Computation-Practice and Experience*, 18(7), 771-785, 2006

<https://doi.org/10.1002/cpe.960>

[J35] A. T. Chronopoulos, S. Penmatsa, N. Yu, D. Yu, Scalable loop self-scheduling schemes for heterogeneous clusters, *International Journal of Computational Science and Engineering*, 1(2/3/4), 110-117, 2005

<https://doi.org/10.1504/IJCSSE.2005.009696>

[J34] D. Grosu, A.T. Chronopoulos, Noncooperative load balancing in distributed systems, *Journal of Parallel and Distributed Computing*, 65(9), 1022-1034, 2005

<https://doi.org/10.1016/j.jpdc.2005.05.001>

[J33] C. Tang, A. T. Chronopoulos, E. Yaprak, An efficient network-switch scheduling for real-time applications, *IEEE Transactions on Communications*, 53(3), 401-407, 2005

<https://doi.org/10.1109/TCOMM.2005.843434>

[J32] D. Grosu, A.T. Chronopoulos, Algorithmic mechanism design for load balancing in distributed systems, *IEEE Transactions on Systems, Man and Cybernetics - Part B*, 34(1), 77-84, 2004

<https://doi.org/10.1109/TSMCB.2002.805812>

[J31] A. T. Chronopoulos, C. Tang, E. Yaprak, An efficient ATM network switch scheduling, *IEEE Transactions on Broadcasting*, 49(3), 278 -292, 2003

DOI: [10.1109/TBC.2003.817079](https://doi.org/10.1109/TBC.2003.817079)

- [J30] A. T. Chronopoulos, D. Grosu, A. M. Wissink, M. Benche, J. Liu, An efficient 3D grid-based scheduling for heterogeneous systems, *Journal of Parallel and Distributed Computing*, 63(9), 827-837, 2003
[https://doi.org/10.1016/S0743-7315\(03\)00112-6](https://doi.org/10.1016/S0743-7315(03)00112-6)
- [J29] A. T. Chronopoulos, C. M. Johnston, A real-time traffic simulation using a communication latency hiding parallelization, *IEEE Transactions on Vehicular Technology*, 51(3), 498-510, 2002
DOI: [10.1109/TVT.2002.1002499](https://doi.org/10.1109/TVT.2002.1002499)
- [J28] A. Chronopoulos, D. Kincaid, On the Odir iterative method for non-symmetric indefinite linear systems, *Numerical Linear Algebra with Applications*, 8(2), 71-82, 2001
[https://doi.org/10.1002/1099-1506\(200103\)8:2<71::AID-NLA230>3.0.CO;2-6](https://doi.org/10.1002/1099-1506(200103)8:2<71::AID-NLA230>3.0.CO;2-6)
- [J27] S. Ziavras, H. Grebel, A. T. Chronopoulos, F. Marcelli, A new-generation parallel computer and its performance evaluation, *Future Generation Computer Systems*, 17(3), 315-333, 2000
[https://doi.org/10.1016/S0167-739X\(00\)00082-0](https://doi.org/10.1016/S0167-739X(00)00082-0)
- [J26] E. Yaprak, Y. Xiao, A. T. Chronopoulos, E. Chow, L. Anneberg, Buffer Management Simulation in ATM Networks, *International Journal of Modeling and Simulation*, 20(2), 146-152, 2000
<https://doi.org/10.1080/02286203.2000.11442151>
- [J25] E. Yaprak, A. T. Chronopoulos, K. Psarris, Y. Xiao, Dynamic buffer allocation in an ATM Switch, *Computer Networks*, 31(18), 1927-1933, 1999
[https://doi.org/10.1016/S1389-1286\(99\)00004-3](https://doi.org/10.1016/S1389-1286(99)00004-3)
- [J24] A. M. Wissink, A. S. Lyrntzis, A. T. Chronopoulos, Parallel Newton-Krylov Method for Rotary-wing Flowfield Calculations, *AIAA Journal*, 37(10), 1213-1221, 1999
<https://doi.org/10.2514/2.615>
- [J23] A. T. Chronopoulos, C. Johnston, A real-time traffic simulation system, *IEEE Transactions on Vehicular Technology*, 47(1), 321-331, 1998
<https://doi.org/10.1109/25.661057>
- [J22] A. T. Chronopoulos, G. Wang, Parallel solution of a traffic flow simulation problem, *Parallel Computing*, 22(14), 1965-1983, 1997
[https://doi.org/10.1016/S0167-8191\(97\)00070-7](https://doi.org/10.1016/S0167-8191(97)00070-7)
- [J21] A. T. Chronopoulos, G. Wang, Traffic Flow Simulation through Parallel Processing, *Transportation Research Record*, 1566, 31-38, 1996
<https://doi.org/10.3141/1566-04>
- [J20] D. Papadopoulos, C. Siettos, A.G. Boudouvis, A. T. Chronopoulos, Stability analysis of magnetohydrostatic equilibrium by the finite element method and Arnoldi and Lanczos eigensolvers, *Advances in Engineering Software*, 27(1-2), 145-153, 1996
[https://doi.org/10.1016/0965-9978\(96\)00018-X](https://doi.org/10.1016/0965-9978(96)00018-X)
- [J19] A. M. Wissink, A. S. Lyrntzis, A. T. Chronopoulos, Efficient iterative methods applied to the solution of transonic flows, *Journal of Computational Physics*, 123(2), 379-393, 1996
<https://doi.org/10.1006/jcph.1996.0031>
- [J18] A. T. Chronopoulos, C. D. Swanson, Parallel iterative S-step methods for unsymmetric linear systems, *Parallel Computing*, 22(5), 623-641, 1996
[https://doi.org/10.1016/0167-8191\(96\)00022-1](https://doi.org/10.1016/0167-8191(96)00022-1)
- [J17] A. T. Chronopoulos, On the squared unsymmetric Lanczos method, *Journal of Computational and Applied Mathematics*, 54(1), 65-78, 1994
[https://doi.org/10.1016/0377-0427\(94\)90395-6](https://doi.org/10.1016/0377-0427(94)90395-6)
- [J16] O. Axelsson, A. T. Chronopoulos, On nonlinear generalized conjugate gradient methods, *Numerische Mathematik*, 69(1), 1-15, 1 Nov 1994
<https://doi.org/10.1007/s002110050076>
- [J15] H. Dong, A. T. Chronopoulos, J. Zou, A. Gopinath, Vectorial integrated finite-difference analysis of dielectric waveguides, *IEEE Journal of Lightwave Technology*, 11(10), 1559-1564, 1993
<https://doi.org/10.1109/50.249896>
- [J14] A. T. Chronopoulos, C. Pedro, Iterative methods for nonsymmetric systems in DAEs and stiff ODEs codes, *(IMACS) Mathematics and Computers in Simulation*, 35(3), 211-232, 1993
[https://doi.org/10.1016/0378-4754\(93\)90002-C](https://doi.org/10.1016/0378-4754(93)90002-C)
- [J13] A. T. Chronopoulos, A. Lyrntzis, P. Michalopoulos, C. Rhee and P. Yi, Traffic flow simulation through high order traffic modelling, *Mathematical and Computer Modelling*, 17(8), 11-22, 1993
[https://doi.org/10.1016/0895-7177\(93\)90150-W](https://doi.org/10.1016/0895-7177(93)90150-W)
- [J12] A. Lyrntzis, A. M. Wissink, A. T. Chronopoulos, Efficient iterative methods for the transonic small disturbance equation, *AIAA Journal*, 30(10), 2556-2558, 1992
<https://doi.org/10.2514/3.11263>
- [J11] A. T. Chronopoulos, P. Michalopoulos, J. Donohoe, Efficient traffic flow simulation computations, *Mathematical and Computer Modelling*, 16(5), 107-120, 1992
[https://doi.org/10.1016/0895-7177\(92\)90123-3](https://doi.org/10.1016/0895-7177(92)90123-3)
- [J10] A. T. Chronopoulos, Z. Zlatev, Iterative methods for nonlinear operator equations, *Applied Mathematics and Computation*, 51(2-3), 167-180, 1992
[https://doi.org/10.1016/0096-3003\(92\)90072-9](https://doi.org/10.1016/0096-3003(92)90072-9)
- [J9] S. K. Kim, A. T. Chronopoulos, An Efficient Parallel Algorithm for Extreme Eigenvalues of Sparse Nonsymmetric Matrices, *International Journal of High-Performance Computing Applications*, 6(4), Dec 1992
<https://doi.org/10.1177/109434209200600411>
- [J8] S. K. Kim, A. T. Chronopoulos, An efficient nonsymmetric Lanczos method on parallel vector computers, *Journal of Computational and Applied Mathematics*, 42(3), 357-374, 30 Oct 1992
[https://doi.org/10.1016/0377-0427\(92\)90085-C](https://doi.org/10.1016/0377-0427(92)90085-C)

- [J7] A. T. Chronopoulos, Nonlinear CG-like Iterative Methods, *Journal of Computational and Applied Mathematics*, 40(1), 73-89, 12 June 1992
[https://doi.org/10.1016/0377-0427\(92\)90043-W](https://doi.org/10.1016/0377-0427(92)90043-W)
- [J6] A. T. Chronopoulos, C. R. Swaminathan, V. R. Voller, The Stefan Problem Solved via Conjugate Gradient-Like Iterative Methods On a Parallel Vector Machine, *International Journal of High-Performance Computing Applications*, 5(3), 74-91, 1991
<https://doi.org/10.1177/109434209100500307>
- [J5] S. K. Kim, A. T. Chronopoulos, A class of Lanczos-like algorithms implemented on parallel computers, *Parallel Computing*, 17(6-7), 763-778, 1991
[https://doi.org/10.1016/S0167-8191\(05\)80065-1](https://doi.org/10.1016/S0167-8191(05)80065-1)
- [J4] A. T. Chronopoulos, s-Step Iterative Methods for (Non)Symmetric (In)Definite Linear Systems, *SIAM Journal on Numerical Analysis*, 28(6), 1776-1789, 1991
<https://doi.org/10.1137/0728088>
- [J3] Sangback Ma, A. T. Chronopoulos, Implementation of Iterative Methods for Large Sparse Nonsymmetric Linear Systems On a Parallel Vector Machine, *International Journal of High-Performance Computing Applications*, 4(4), 9-24, December 1990
<https://doi.org/10.1177/109434209000400402>
- [J2] A. T. Chronopoulos, C. W. Gear, On the efficient implementation of preconditioned s-step conjugate gradient methods on multiprocessors with memory hierarchy, *Parallel Computing*, 11(1), 37-53, 1989
[https://doi.org/10.1016/0167-8191\(89\)90062-8](https://doi.org/10.1016/0167-8191(89)90062-8)
- [J1] A. T. Chronopoulos, C. W. Gear, s-step iterative methods for symmetric linear systems, *Journal of Computational and Applied Mathematics*, 25(2), 153-168, 1989
[https://doi.org/10.1016/0377-0427\(89\)90045-9](https://doi.org/10.1016/0377-0427(89)90045-9)

ACM/IEEE Refereed Conference Proceedings Publications

- [C56] F. Li, H. Luo, W. Liu, A. T. Chronopoulos, K. Li and C. Liu, STREAM: Spatiotemporal Similarity-based Efficient Approximate Median with Tunable Granularity, *2025 62nd ACM/IEEE Design Automation Conference (DAC)*, San Francisco, CA, USA, pp. 1-6, 22-25 June 2025
 DOI: [10.1109/DAC63849.2025.11133038](https://doi.org/10.1109/DAC63849.2025.11133038)
- [C55] X. He, H. Wang, J. Zhang, W. Yang, A. T. Chronopoulos and K. Li, An Input-Aware Sparse Tensor Compiler Empowered by Vectorized Acceleration, *2025 62nd ACM/IEEE Design Automation Conference (DAC)*, San Francisco, CA, USA, pp. 1-7, 22-25 June 2025
 DOI: [10.1109/DAC63849.2025.11133371](https://doi.org/10.1109/DAC63849.2025.11133371)
- [C54] Z. Nie, Z. Xiao, H. Luo, X. Liu and A. T. Chronopoulos, Hierarchical Explanations for Text Classification Models: Fast and Effective, *2024 IEEE International Conference on Data Mining (ICDM)*, Abu Dhabi, United Arab Emirates, 09-12 December 2024, pp. 350-359,
 DOI: [10.1109/ICDM59182.2024.00042](https://doi.org/10.1109/ICDM59182.2024.00042)
- [C53] Shamshirband, S., Chronopoulos, A. T. , A New Malware Detection System Using a High Performance-ELM. *ACM 23rd International Database Engineering & Applications Symposium (IDEAS)*, 33, 1-10, 10-12 June 2019
<https://doi.org/10.1145/3331076.3331119>
- [C52] Akber, S. M. A., Khan, I. A., Muhammad, S. S., Mohsin, S. M., Khan, I. A., Shamshirband, S., & Chronopoulos, A. T. Data Volume Based Data Gathering in WSNs using Mobile Data Collector. *22nd International Database Engineering & Applications Symposium*, 199-207, ACM, June 2018
<https://doi.org/10.1145/3216122.3216166>
- [C51] X. Zhang, S. Gaddam, A.T. Chronopoulos, Ceph Distributed File System Benchmarks on an Openstack Cloud, *2015 IEEE Intern. Conf. on Cloud Computing in Emerging Markets (CCEM)*, Bangalore, 113-120, 25 Nov 2015
 DOI: [10.1109/CCEM.2015.12](https://doi.org/10.1109/CCEM.2015.12)
- [C50] P. Rad, A.T. Chronopoulos, P. Lama, P. Madduri, C. Loader, Benchmarking Bare Metal Cloud Servers for HPC Applications, *2015 IEEE Intern. Conf. on Cloud Computing in Emerging Markets (CCEM)*, Bangalore, 153-159, 25 Nov 2015
 DOI: [10.1109/CCEM.2015.13](https://doi.org/10.1109/CCEM.2015.13)
- [C49] Y. Han, A. T. Chronopoulos, A Resilient Hierarchical Distributed Loop Self-Scheduling Scheme for Cloud Systems, *2014 IEEE 13th Intern. Symp. on Network Computing and Applications*, Cambridge, MA, 80-84, 2014
 DOI: [10.1109/NCA.2014.18](https://doi.org/10.1109/NCA.2014.18)
- [C48] M. Meshabi, A. M. Rahmani, A. T. Chronopoulos, Cloud Light Weight: a New Solution for Load Balancing in Cloud Computing, *2014 Intern. Conf. on Data Science & Engineering (ICDSE)*, Kochi, 26, 44-50, Aug 2014
 DOI: [10.1109/ICDSE.2014.6974610](https://doi.org/10.1109/ICDSE.2014.6974610)
- [C47] W. Luo, N. Golpavar, C. Cardenas, A. T. Chronopoulos, Benchmarking Joyent SmartDataCenter for Hadoop MapReduce and MPI Operations, *2013 IEEE International Conference on Cloud Computing in Emerging Markets (CCEM)*, Bangalore, 1-6, 16 Oct 2013
 DOI: [10.1109/CCEM.2013.6684429](https://doi.org/10.1109/CCEM.2013.6684429)
- [C46] Y. Han, A. T. Chronopoulos, A Hierarchical Distributed Loop Self-Scheduling Scheme for Cloud Systems, *2013 IEEE 12th Intern. Symp. on Network Computing and Applications*, Cambridge, MA, 7-10, Aug 2013
 DOI: [10.1109/NCA.2013.9](https://doi.org/10.1109/NCA.2013.9)
- [C45] Y. Han, A. T. Chronopoulos, Distributed Loop Scheduling Schemes for Cloud Systems, *2013 IEEE International Symposium on Parallel & Distributed Processing, Workshops and Phd Forum*, Cambridge, MA, 955-962, May 2013
 DOI: [10.1109/IPDPSW.2013.104](https://doi.org/10.1109/IPDPSW.2013.104)
- [C44] Y. Han, A. T. Chronopoulos, Scalable Loop Self-Scheduling Schemes Implemented on Large-Scale Clusters, *2013 IEEE International Symposium on Parallel & Distributed Processing, Workshops and Phd Forum*, Cambridge, MA, 1735-1742, May 2013
 DOI: [10.1109/IPDPSW.2013.105](https://doi.org/10.1109/IPDPSW.2013.105)

- [C43] M. Madhukar, S. Agaian, A.T. Chronopoulos, Deterministic Model for Acute Myelogenous Leukemia Classification, 2012 *IEEE Intern. Conf. on Systems, Man, and Cybernetics (SMC)*, Seoul, 433-438, 14 Oct 2012
DOI: [10.1109/ICSMC.2012.6377762](https://doi.org/10.1109/ICSMC.2012.6377762)
- [C42] A. T. Chronopoulos, S. Penmatsa, N. Jayakumar, E. Ogharandukun, Two-Dimensional Dynamic Loop Scheduling Schemes for Computer Clusters, 2012 *IEEE 11th International Symposium on Network Computing and Applications*, Cambridge, MA, 2012, 96-100, 23-25 August 2012
DOI: [10.1109/NCA.2012.36](https://doi.org/10.1109/NCA.2012.36)
- [C41] S. Penmatsa, A. T. Chronopoulos, Comparison of Price-Based Static and Dynamic Job Allocation Schemes for Grid Computing Systems, 2009 *Eighth IEEE International Symposium on Network Computing and Applications*, Cambridge, MA, 66-73, 2009
DOI: [10.1109/NCA.2009.35](https://doi.org/10.1109/NCA.2009.35)
- [C40] I. Riakiotakis, G. Papakonstantinou, A. T. Chronopoulos, Implementation of Dynamic Loop Scheduling in Reconfigurable Platforms, 2008 *Intern. Symposium on Industrial Embedded Systems*, Le Grande Motte, France, 11-18, 11 June 2008
DOI: [10.1109/SIES.2008.4577675](https://doi.org/10.1109/SIES.2008.4577675)
- [C39] M. Ciorba, I. Riakiotakis, T. Andronikos, A. T. Chronopoulos, G. Papakonstantinou, Optimal Synchronization Frequency for Dynamic Pipelined Computations on Heterogeneous Systems, 2007 *IEEE International Conference on Cluster Computing*, Austin, Texas, USA, 410-415, 17-20 September 2007
DOI: [10.1109/CLUSTER.2007.4629257](https://doi.org/10.1109/CLUSTER.2007.4629257)
- [C38] K. Kyriakopoulos, A. T. Chronopoulos, L. Ni, An Optimal Scheduling Scheme for Tiling in Distributed Systems, 2007 *IEEE International Conference on Cluster Computing*, Austin, TX, USA, p.267-274, 17-20 Sept 2007
DOI: [10.1109/CLUSTER.2007.4629240](https://doi.org/10.1109/CLUSTER.2007.4629240)
- [C37] A. T. Chronopoulos, L. Ni, S. Penmatsa, Multi-Dimensional Dynamic Loop Scheduling Algorithms, 2007 *IEEE International Conference on Cluster Computing*, Austin, Texas, USA, 241-248, 17-20 Sept. 2007
DOI: [10.1109/CLUSTER.2007.4629237](https://doi.org/10.1109/CLUSTER.2007.4629237)
- [C36] F. M. Ciorba, T. Andronikos, I. Riakiotakis, G. Papakonstantinou, A. T. Chronopoulos, Studying the impact of synchronization frequency on scheduling tasks with dependencies in heterogeneous systems, *IEEE/ACM 16th International Conference on Parallel Architecture and Compilation Techniques*, Brashov, Romania, 403 - 403, 15-19 Sept. 2007.
DOI: [10.1109/PACT.2007.4336231](https://doi.org/10.1109/PACT.2007.4336231)
- [C35] M. Musku, A. T. Chronopoulos, S. Penmatsa, D. Popescu, A Game Theoretic Approach for Medium Access of Open Spectrum in Cognitive Radios, 2007 *2nd IEEE International Conference on Cognitive Radio (CrownCom 2007)*, Orlando, Florida, USA, 336-341, July 31 - August 3 2007
DOI: [10.1109/CROWNCOM.2007.4549820](https://doi.org/10.1109/CROWNCOM.2007.4549820)
- [C34] S. Penmatsa, A. T. Chronopoulos, N. T. Karonis, B. Toonen, Implementation of Distributed Loop Scheduling Schemes on the TeraGrid, 21st *IEEE International Parallel and Distributed Processing Symposium (IPDPS 2007)*, Long Beach, California, USA, 1-8, 26-30 March 2007
DOI: [10.1109/IPDPS.2007.370551](https://doi.org/10.1109/IPDPS.2007.370551)
- [C33] S. Penmatsa, A. T. Chronopoulos, Dynamic Multi-User Load Balancing in Distributed Systems, 21st *IEEE Intern. Parallel and Distributed Processing Symp. (IPDPS 2007)*, Long Beach, California, USA, 1-10, 26-30 March 2007
DOI: [10.1109/IPDPS.2007.370312](https://doi.org/10.1109/IPDPS.2007.370312)
- [C32] C. Tang, A. T. Chronopoulos, P. Cotae, An Iterative Power Allocation Scheme for Spread Spectrum Wireless Systems, *IEEE Intern. Symposium on Wireless Pervasive Computing*, Puerto Rico, 600-605, 5-7 Feb. 2007
DOI: [10.1109/ISWPC.2007.342674](https://doi.org/10.1109/ISWPC.2007.342674)
- [C31] S. Penmatsa, A. T. Chronopoulos, Price-based User-optimal Job Allocation Scheme for Grid Systems, 20th *IEEE Intern. Parallel & Distributed Processing Sympos. (IPDPS 2006)*, Rhodes, Greece, 1-8, 25-29 April 2006
DOI: [10.1109/IPDPS.2006.1639653](https://doi.org/10.1109/IPDPS.2006.1639653)
- [C30] S. Penmatsa, A. T. Chronopoulos, Cooperative Load Balancing for a Network of Heterogeneous Computers, 20th *IEEE Intern. Parallel & Distributed Processing Symp (IPDPS 2006)*, Rhodes, Greece, 1-8, 25-29 April 2006
DOI: [10.1109/IPDPS.2006.1639393](https://doi.org/10.1109/IPDPS.2006.1639393)
- [C29] F. M. Ciorba, T. Andronikos, I. Riakiotakis, A. T. Chronopoulos, G. Papakonstantinou, Dynamic Multi Phase Scheduling for Heterogeneous Clusters, 20th *IEEE International Parallel and Distributed Processing Symposium (IPDPS 2006)*, Rhodes, Greece, 1-10, 25-29 April 2006
DOI: [10.1109/IPDPS.2006.1639308](https://doi.org/10.1109/IPDPS.2006.1639308)
- [C28] M. Musku, A. T. Chronopoulos, D. Popescu, Joint Rate and Power Control Using Game Theory, 3rd *IEEE Consumer Commun. and Networking Conf. (CCNC 2006)*, Las Vegas NV, 1258 -1262, 8-10 Jan. 2006
DOI: [10.1109/CCNC.2006.1593240](https://doi.org/10.1109/CCNC.2006.1593240)
- [C27] M. Musku, A. T. Chronopoulos, D. Popescu, Joint Rate and Power Control with Pricing, *IEEE Globecom 2005*, 6, 3466 - 3470, 28 November-2 December 2005
DOI: [10.1109/GLOCOM.2005.1578417](https://doi.org/10.1109/GLOCOM.2005.1578417)
- [C26] C. Tang, A. T. Chronopoulos, C. S. Raghavendra, Soft-Timeout Distributed Key Generation for Digital Signature based on Elliptic Curve D-log for Low-power Devices, 1st *IEEE Intern. Conf. on Security and Privacy for Emerging Areas in Commun. Networks (SECURECOMM'05)*, Athens, Greece, 353-364, 4-9 Sept 2005
DOI: [10.1109/SECURECOMM.2005.52](https://doi.org/10.1109/SECURECOMM.2005.52)
- [C25] M. Musku, A. T. Chronopoulos, D. Popescu, A Simulation Comparison of Distributed Power Control Algorithms for Wireless Communications, *IEEE International Symposium on Signals, Circuits, and Systems (ISSCS 2005)*, Iasi, Romania, 263-268, July 2005
DOI: [10.1109/ISSCS.2005.1509904](https://doi.org/10.1109/ISSCS.2005.1509904)
- [C24] C. Tang, A. T. Chronopoulos, An Efficient Distributed Key Generation Protocol for Secure Communications with Causal Ordering, 11th *International Conference on Parallel and Distributed Systems (ICPADS'05)*, Vol. 2, Fukuoka, Japan, 285 - 289, 20-22 July 2005
DOI: [10.1109/ICPADS.2005.81](https://doi.org/10.1109/ICPADS.2005.81)

- [C23] S. Penmatsa, A. T. Chronopoulos, Job Allocation Schemes in Computational Grids based on Cost Optimization, *IEEE 19th International Parallel & Distributed Processing Symposium (IPDPS 2005)*, Denver Colorado, 180-187, April 2005
DOI: [10.1109/IPDPS.2005.264](https://doi.org/10.1109/IPDPS.2005.264)
- [C22] D. Popescu, A. T. Chronopoulos, Power Control and Utility Optimization in Wireless Communication Systems, *2005 61st IEEE Vehicular Technology Conference*, 1, 314 - 318, Stockholm, Sweden, 30 May 2005
DOI: [10.1109/VETECS.2005.1543302](https://doi.org/10.1109/VETECS.2005.1543302)
- [C21] A. T. Chronopoulos, F. Balbi, D. Veljkovic, N. Kolani, Implementation of Distributed Key Generation Algorithms using Secure Sockets, *3rd IEEE International Symposium on Network Computing and Applications (NCA2004)*, Cambridge, MA, USA, 393-398, 30 August 2004
DOI: [10.1109/NCA.2004.1347807](https://doi.org/10.1109/NCA.2004.1347807)
- [C20] A. T. Chronopoulos, P. Cotae, S. Ponipireddy, Efficient Power Control for Broadcast in Wireless Communication Systems, *2004 IEEE Wireless Communications and Networking Conference (IEEE Cat. No.04TH8733)*, Vol. 3, Atlanta, GA, 1330 - 1334, 21-25 March 2004
DOI: [10.1109/WCNC.2004.1311635](https://doi.org/10.1109/WCNC.2004.1311635)
- [C19] D. Grosu, A.T. Chronopoulos, A truthful mechanism for fair load balancing in distributed systems, *2nd Intern. Sympos. on Network Computing and Applications (NCA 2003)*, Boston, MA, 289 -296, 16-18 April 2003
DOI: [10.1109/NCA.2003.1201167](https://doi.org/10.1109/NCA.2003.1201167)
- [C18] D. Grosu, A.T. Chronopoulos, A load balancing mechanism with verification, *IEEE 17th International Parallel and Distributed Processing Symposium (IPDPS'03)*, Nice, France, 163 -170, 22-26 April 2003
DOI: [10.1109/IPDPS.2003.1213303](https://doi.org/10.1109/IPDPS.2003.1213303)
- [C17] A.T. Chronopoulos, S. Penmatsa, N. Yu, Scalable Loop Self-Scheduling Schemes for Heterogeneous Clusters, *4th IEEE International Conference on Cluster Computing (CLUSTER 2002)*, Chicago, Illinois, 353-359, 24-26 September 2002
DOI: [10.1109/CLUSTER.2002.1137767](https://doi.org/10.1109/CLUSTER.2002.1137767)
- [C16] S. Jagannathan, A. Tohmaz, A. T. Chronopoulos, H.G. Cheung, Adaptive Admission Control of Multimedia Traffic in High-Speed Networks, *17th IEEE International Symposium on Intelligent Control (ISIC'02)*, Vancouver, Canada, 728-733, 27-30 October 2002
DOI: [10.1109/ISIC.2002.1157852](https://doi.org/10.1109/ISIC.2002.1157852)
- [C15] S. Jagannathan, A. T. Chronopoulos, S. Ponipireddy, Distributed Power Control in Wireless Communication Systems, *IEEE 11th International Conference on Computer Communications and Networks (ICCCN 2002)*, Miami, Florida, 493-496, 14-16 October 2002
DOI: [10.1109/ICCCN.2002.1043112](https://doi.org/10.1109/ICCCN.2002.1043112)
- [C14] D. Grosu, A.T. Chronopoulos, Algorithmic Mechanism Design for Load Balancing in Distributed Systems, *4th IEEE International Conference on Cluster Computing (CLUSTER 2002)*, Chicago, Illinois, 445-454, 24-26 September 2002
DOI: [10.1109/CLUSTER.2002.1137780](https://doi.org/10.1109/CLUSTER.2002.1137780)
- [C13] A. T. Chronopoulos, J. Sarangapani, A Distributed Discrete-Time Neural Network Architecture for Pattern Allocation and Control, *IEEE 16th International Parallel and Distributed Processing Symposium (IPDPS 2002)*, Fort Lauderdale, Florida, 204-211, 15-19 April 2002
DOI: [10.1109/IPDPS.2002.1016613](https://doi.org/10.1109/IPDPS.2002.1016613)
- [C12] D. Grosu, A. T. Chronopoulos, A Game-Theoretic Model and Algorithm for Load Balancing in Distributed Systems, *IEEE 16th International Parallel and Distributed Processing Symposium, (IPDPS 2002)*, Fort Lauderdale, Florida, 146-153, 15-19 April 2002
DOI: [10.1109/IPDPS.2002.1016536](https://doi.org/10.1109/IPDPS.2002.1016536)
- [C11] D. Grosu, A. T. Chronopoulos, M.Y. Leung, Load Balancing in Distributed Systems: An Approach Using Cooperative Games, *IEEE 16th International Parallel and Distributed Processing Symposium (IPDPS 2002)*, Fort Lauderdale, Florida, 8-11, 15-19 April 2002
DOI: [10.1109/IPDPS.2002.1015536](https://doi.org/10.1109/IPDPS.2002.1015536)
- [C10] A. T. Chronopoulos, R. Andonie, M. Benche, D. Grosu, A Class of Loop Self-Scheduling for Heterogeneous Clusters, *3rd IEEE International Conference on Cluster Computing (CLUSTER 2001)*, Newport Beach, CA, pp. 282-291, 8-11 October 2001
DOI: [10.1109/CLUSTER.2001.959989](https://doi.org/10.1109/CLUSTER.2001.959989)
- [C9] A. T. Chronopoulos, D. Grosu, A. Wissink, M. Benche, Static Load Balancing for CFD Simulations on a Network of Workstations, *1st IEEE International Symposium on Network Computing & Applications (NCA 2001)*, Cambridge, MA, 364-367, 8-10 October 2001
DOI: [10.1109/NCA.2001.962556](https://doi.org/10.1109/NCA.2001.962556)
- [C8] C. Johnston, A. T. Chronopoulos, A Communication Latency Hiding Parallelization of a Traffic Flow Simulation, *IEEE 13th International Parallel Processing Symposium and 10th Symposium on Parallel and Distributed Processing (IPPS '99/SPDP '99)*, Puerto Rico, 688-695, 12-16 April 1999
DOI: [10.1109/IPPS.1999.760550](https://doi.org/10.1109/IPPS.1999.760550)
- [C7] C. Johnston, A. T. Chronopoulos, The Parallelization of a Highway Traffic Flow Simulation, *IEEE 7th Symposium on the Frontiers of Massively Parallel Computation (Frontiers '99)*, Annapolis, Maryland, 192-199, 21-25 February 1999
DOI: [10.1109/FMPC.1999.750600](https://doi.org/10.1109/FMPC.1999.750600)
- [C6] E. Yaprak, A. T. Chronopoulos, K. Psarris, Y. Xiao, Adaptive buffer threshold updating for an ATM switch, *3rd IEEE Symposium on Computers and Communications (ISCC'98)* Athens, Greece, 400-405, 30 June 1998
DOI: [10.1109/ISCC.1998.702555](https://doi.org/10.1109/ISCC.1998.702555)
- [C5] C. Tang, A. T. Chronopoulos, E. Yaprak, A Cell Burst Scheduling for ATM Networking. II. Implementation, *3rd IEEE Symposium on Computers and Communications (ISCC'98)*, Athens, Greece, 462-467, 30 June 1998
DOI: [10.1109/ISCC.1998.702565](https://doi.org/10.1109/ISCC.1998.702565)
- [C4] C. Tang, A. T. Chronopoulos, E. Yaprak, A Cell Burst Scheduling for ATM Networking. I. Theory, *3rd IEEE Symposium on Computers and Communications (ISCC'98)*, Athens, Greece, 455-461, 30 June - 2 July 1998
DOI: [10.1109/ISCC.1998.702564](https://doi.org/10.1109/ISCC.1998.702564)
- [C3] S. Zivavras, H. Grebel, A. T. Chronopoulos, A Low-Complexity Parallel System for Gracious, Scalable Performance. Case Study for Near PetaFLOPS Computing, *IEEE 6th Symposium on the Frontiers of Massively Parallel Computation (Frontiers'96)*, Annapolis, Maryland, 363-370, October 1996
DOI: [10.1109/FMPC.1996.558115](https://doi.org/10.1109/FMPC.1996.558115)

[C2] C. Swanson, A. T. Chronopoulos, Orthogonal s-step methods for nonsymmetric linear systems of equations, *6th ACM International Conference on Supercomputing (ICS '92)*, Washington, D.C., 456-465, July 1992
<https://doi.org/10.1145/143369.143450>

[C1] A. T. Chronopoulos, *Towards Efficient Parallel Implementation of the CG Method Applied to a Class of Block Tridiagonal Linear Systems*, 1991 ACM/IEEE Conference on Supercomputing (Supercomputing '91), Albuquerque, New Mexico, 578-587, 18-22 November 1991
 DOI: [10.1145/125826.126134](https://doi.org/10.1145/125826.126134)

Other Refereed Conference Proceedings Publications

[OC21] Min Xu, Yongxian Wang, A. T. Chronopoulos, Hao Yue. Performance optimization and parallelization of a parabolic equation solver in computational ocean acoustics on modern many-core computers. *The 1st International Conference on Computer Science and Application Engineering (CSAE2017)*, Shanghai, China, 715-724, 21-23 October 2017 (also: [arXiv:1711.00005v2](https://arxiv.org/abs/1711.00005v2)).

DOI: [10.12783/dtcse/csae2017/17546](https://doi.org/10.12783/dtcse/csae2017/17546)

[OC20] L. Aaleswara, D. Akopian, Anthony T. Chronopoulos, A privacy protection for an mHealth messaging system, *Proc. SPIE 9411, Mobile Devices and Multimedia: Enabling Technologies, Algorithms, and Applications 2015*, 94110S1-94110S8, 11 March 2015.
<https://doi.org/10.1117/12.2086647>

[OC19] M. Madhukar, S. Agaian, A.T. Chronopoulos, New decision support tool for acute lymphoblastic leukemia classification, *Proc. SPIE, Image Processing: Algorithms and Systems X; and Parallel Processing for Imaging Applications II, IS&T/SPIE*, San Francisco, 8295, 829518-1, 829518-12, 22–26 Jan. 2012
<https://doi.org/10.1117/12.905999>

[OC18] A.T. Chronopoulos, D. Grosu, H. Kikuchi, A New Efficient Polynomial Degree Resolution Protocol and Its Application to the (M+1)-st Price Private Auction, *2nd International Conference on Applied Cryptography and Network Security (ACNS'04)*, Yellow Mountain, China, 358-367, 8-11 June 2004

[OC17] A. T. Chronopoulos, S. Ponipireddy, J. Sarangapani, Constructing Energy-Efficient Broadcast Trees in Wireless Ad Hoc Networks, *International Symposium on Parallel and Distributed Computing*, Iasi, Romania, Sci. Ann. Cuza Univ., 11, 205-213, 17-20 July 2002

[OC16] A. T. Chronopoulos, A. B. Kuchеров, A Parallel Krylov-Type Method for Nonsymmetric Linear Systems, *IEEE (sponsored) International Conference on High-Performance Computing*, HiPC 2001, Hyderabad, India, 104-114, 17-20, LNCS, 2228, December 2001
https://link.springer.com/chapter/10.1007/3-540-45307-5_10

[OC15] Jianhua Xu, A. T. Chronopoulos, Distributed Self-Scheduling for Heterogeneous Workstation Clusters, *12th ISCA International Conference on Parallel and Distributed Computing Systems*, Fort Lauderdale, FL, 211-217, 18-20 August 1999

[OC14] R. Andonie, A. T. Chronopoulos, D. Grosu, H. Galmeanu, Distributed backpropagation neural networks on a PVM Heterogeneous System, *10th IASTED International Conference on Parallel and Distributed Computing Systems*, Las Vegas, Nevada, 555-560, 23-31 October 1998

[OC13] A. T. Chronopoulos, C. Tang, An Efficient Implementation of Burst Fair Queuing for ATM Networking, *10th IASTED International Conference on Parallel and Distributed Computing Systems*, Las Vegas, Nevada, 326-333, 23-31 October 1998

[OC12] H. Jiang, A. T. Chronopoulos, G. Papakonstantinou, P. Tsanakas, A Path-Driven Loop Scheduling Mapped onto Generalized Hypercubes, *10th IASTED International Conference on Parallel and Distributed Computing Systems*, Las Vegas, Nevada, 7-13, 23-31 October 1998

[OC11] A. T. Chronopoulos, Y. Gong, H. Grebel, S. Ziavras, Performance Evaluation of a 100-TeraOps Parallel System, *11th ISCA International Conference on Parallel and Distributed Computing Systems*, Chicago, ILL, 204211, 2-4 September 1998

[OC10] A. M. Wissink, A. S. Lyrantzis, A. T. Chronopoulos, A Parallel Newton-Krylov Method for Rotorcraft Flowfield Calculations, *paper AIAA-97-2049, 13th AIAA Computational Fluid Dynamics Conference*, Snowmass Village, Colorado, 1060-1070, June 1997
<https://doi.org/10.2514/6.1997-2049>

[OC9] A. M. Wissink, A. S. Lyrantzis, and A. T. Chronopoulos, Parallel Krylov Solvers Applied to the Rotorcraft CFD code TURNS, *1996 Computational Aerosciences (CAS) Workshop*, NASA Ames Research Center, Aug. 1996, NASA Conference Publication CD 20011, 43-48, May 1997 <https://doi.org/10.2514/6.1997-2049>

[OC8] S. Ziavras, H. Grebel, A. T. Chronopoulos, A Scalable-Feasible Parallel Computer Implementing Electronic and Optical Interconnections for 156 TeraOps Minimum Performance, *Proceedings of PetaFLOPS Architecture Workshop*, Oxnard, California, 179-209, April 1996

[OC7] A. M. Wissink, A. S. Lyrantzis, A. T. Chronopoulos, High Performance Computing Techniques for Solving the Transonic Small Disturbance Equation, *Paper 95-0576, 33rd AIAA Aerosciences Conference*, Reno, Nevada, 1-12, January 1995
<https://doi.org/10.2514/6.1995-576>

[OC6] D. Papadopoulos, C. Siettos, A. G. Boudouvis, A. T. Chronopoulos, Implementation and Performance of Arnoldi and Lanczos Eigensolvers in Galerkin-Finite Element Computations, *Proc. of Advances in Computational Mechanics, CICIL-COMP Ltd, Edinburgh, Scotland, M. Papadrakakis and B.H.V. Topping (Editors), 2nd Intern. Conference on Computational Structures Technology*, Athens, Greece, 1-9, Aug. 1994
<https://doi.org/10.4203/CCP.26.8.3>

[OC5] H. Dong, A. T. Chronopoulos, A. Gopinath, Vectorial Integrated Finite-difference Analysis of Dielectric Waveguide Without Spurious Modes, *Integrated Photonics Research Topical Meeting*, Optical Society of America, Palm Springs, California, 225-228, March 1993
<https://doi.org/10.1364/IPR.1993.ITuC2>

[OC4] A. T. Chronopoulos, M. Pernice, Vector Preconditioned s-step Methods on the IBM 3090/600S/6VF, *5th SIAM Conference on Parallel Processing*, Houston, Texas, 130-137, March 1991.

- [OC3] A. T. Chronopoulos, Z. Zlatev, Iterative Methods for Nonlinear Operator Equations, *Sixth Southeastern Approximation Theory Conference, Lecture Notes in Pure and Applied Mathematics*, Marcel-Dekker, Vol. 138, Memphis State University, Memphis, Tennessee, 243-256, March 1991
- [OC2] S. Kim, A. T. Chronopoulos, An Efficient Arnoldi Method Implemented on Parallel Computers, *International Conference on Parallel Processing*, Vol. III, St. Charles, Illinois, pp. 167- 170, August 1991.
- [OC1] A. T. Chronopoulos, Parallel Iterative Methods for (Non)Symmetric (In)Definite Linear Systems, *4th SIAM Conference on Parallel Processing for Scientific Computing*, Chicago, Illinois, 63-65, 11-13 December 1989 <https://doi.org/10.1137/0728088>