

## PUBLICATIONS

- Papers can be accessed at:

[https://www.researchgate.net/profile/A\\_Chronopoulos/contributions](https://www.researchgate.net/profile/A_Chronopoulos/contributions)

Citations (3780) and h-index (32) : <https://scholar.google.gr/citations?user=vpaOim8AAAAJ&hl=en>

- Journal indexing: (a) Web of science ISI Impact Factor (ISI-IF) <http://mjl.clarivate.com/>  
(b) Scopus CiteScore (S-CS) <https://www.scopus.com/sources>

Number of papers in indexed journals: ISI: 85 and Scopus: 94

- Most highly cited papers are in the areas: (\*) “communication avoiding” (s-step) iterative methods for sparse linear problems for High Performance Computing (HPC) and (\*\*) “game theory based load balancing” for distributed systems (e.g. Clouds, Grids, IoT).

## Refereed Journal Publications

[J102] Xiao, Z., Wei, P., Chronopoulos, A. and Elster, A.C., A Distributed Integrated Feature Selection Scheme for Column Subset Selection, *IEEE Transactions on Knowledge and Data Engineering*. 2021. (early access)

[J101] A Kishor, R Niyogi, A Chronopoulos, A Zomaya, Latency and Energy-Aware Load Balancing in Cloud Data Centers: A Bargaining Game Based Approach, *IEEE Transactions on Cloud Computing*, (early access) 20 October 2021.

DOI: [10.1109/TCC.2021.3121481](https://doi.org/10.1109/TCC.2021.3121481)

[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/JIOT.2021.3068175](https://doi.org/10.1109/JIOT.2021.3068175) IEEE, ISSN: 2327-4662, ISI-IF:9.515, S-CS:14.9

[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) IEEE, ISSN 1932-8184, ISI-IF : 4.337, S-CS:3.68

[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> WILEY, ISSN 0170-4214, ISI-IF:1.533, S-CS:2.8

[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) Taylor & Francis, ISSN 1206-212X, S-CS: 0.36

[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> ELSEVIER, ISSN 1532-0464, ISI-IF:3.526, S-CS:6.9

[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> SPRINGER, ISSN 1022-0038, ISI-IF :2.357, S-CS:4.1

[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> ELSEVIER, ISSN 2214-2126, ISI-IF:2.327, S-CS:4.1

[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) IEEE, ISSN 1524-9050, ISI-IF : 4.051, S-CS:5.14

[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) IEEE, ISSN 0090-6778, ISI-IF : 4.058, S-CS:5.05

- [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) IEEE, ISSN 0018-9545 , ISI-IF : 4.432 , S-CS:4.69
- [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, 23 pages, May 2020.  
DOI: <https://dl.acm.org/doi/fullHtml/10.1145/3391443> ACM, ISSN 2329-4949 , S-CS:2.0
- [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> MDPI, ISSN 2079-9292, ISI-IF :1.764, S-CS:2.49
- [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, pp. 468-488, 2 February 2020.  
DOI: <https://doi.org/10.1016/j.tcs.2019.08.019> Elsevier, ISSN 0304-3975 , ISI-IF : 0.718, S-CS:1.23
- [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), pp. 697-715, 1 February 2020.  
<https://doi.org/10.1016/j.camwa.2019.07.024> Elsevier, ISSN 0898-1221, ISI-IF : 2.811 S-CS: 2.64
- [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, pp. 9680-9691, 8 Jan 2020.  
DOI: [10.1109/ACCESS.2020.2964795](https://doi.org/10.1109/ACCESS.2020.2964795) IEEE, ISSN 2169-3536, ISI-IF: 4.098 , S-CS:4.49
- [J85] 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), pp. 1101-1105, Jan. 2020.  
DOI: [10.1109/TVT.2019.2951474](https://doi.org/10.1109/TVT.2019.2951474) IEEE, ISSN 0018-9545 , ISI-IF : 4.432 , S-CS:4.69
- [J84] 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* (Early Access), 26 Nov 2019  
DOI: [10.1109/TCC.2019.2956134](https://doi.org/10.1109/TCC.2019.2956134) ISSN / eISSN 2168-7161, ISI-IF : 5.967, S-CS: 5.62
- [J83] 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), pp. 2913-2922, 19 Nov 2019  
DOI: [10.1049/iet-com.2019.0554](https://doi.org/10.1049/iet-com.2019.0554) IET, ISSN 1751-8628, ISI-IF : 1.779, S-CS: 2.01
- [J82] 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, pp. 93294 – 93314, 10 July 2019.  
doi: [10.1109/ACCESS.2019.2927822](https://doi.org/10.1109/ACCESS.2019.2927822) IEEE, ISSN 2169-3536, ISI-IF: 4.098 , S-CS:4.49
- [J81] 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), pp. 68160-68171, 6 June 2019  
doi: [10.1109/ACCESS.2019.2918345](https://doi.org/10.1109/ACCESS.2019.2918345) IEEE, ISSN 2169-3536, ISI-IF: 4.098, S-CS:4.49
- [J80] 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), pp. 2267-2277, June 2019.  
doi: [10.1109/TITS.2018.2866236](https://doi.org/10.1109/TITS.2018.2866236) IEEE, ISSN 1524-9050, ISI-IF:4.051, S-CS:5.14
- [J79] 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), pp. 601-617, June 2019  
<https://doi.org/10.1007/s10586-018-2867-7> Springer, ISSN 1386-7857 , ISI-IF: 1.601, S-CS:2.04
- [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> Springer, ISSN 1570-0755, ISI-IF: 2.222, S-CS:2.24

- [J77] D. Sakhawat, A N. Khan, M. Aslam, A. T. Chronopoulos, Agent-based ARP Cache Poisoning Detection (AACPD) in Switched LAN Environments, 8(1), pp. 67 – 73, *IET Networks*, January 2019  
DOI: [10.1049/iet-net.2018.5084](https://doi.org/10.1049/iet-net.2018.5084) IET, ISSN 2047-4954 S-CS:2.01
- [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, pp. 226-236, 15 Sept 2018  
<https://doi.org/10.1016/j.compfluid.2018.03.005> Elsevier, ISSN 0045-7930 , ISI-IF: 2.221, S-CS:2.76
- [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), pp. 3081-3086, Sept 2018  
<https://doi.org/10.1109/TITS.2017.2766267> IEEE, ISSN 1524-9050, ISI-IF : 4.051, S-CS:5.14
- [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), pp. 248 – 257, Jul 2018  
DOI: [10.1049/iet-net.2017.0101](https://doi.org/10.1049/iet-net.2017.0101) IET, ISSN 2047-4954 S-CS:2.01
- [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, pp. 31327-31339, 26 Jun 2018  
DOI: [10.1109/ACCESS.2018.2844783](https://doi.org/10.1109/ACCESS.2018.2844783) IEEE, ISSN 2169-3536, ISI-IF :3.557, S-CS:4.49
- [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> MDPI, ISSN 2297-8747
- [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), pp. 303–314, April 2018  
<http://dx.doi.org/10.1080/21681163.2016.1234948> ISSN 2168-1163, S-CS:0.83
- [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> MDPI, ISSN 2297-8747
- [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, pp. 2-22 , 7 Feb 2018  
<https://doi.org/10.1016/j.neucom.2017.01.126> Elsevier, ISSN 0925-2312 , ISI-IF : 3.241, S-CS:3.74
- [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), pp. 393-418, Jan 2018  
<https://doi.org/10.1007/s10639-017-9610-5> Springer, ISSN 1360-2357, S-CS:1.3
- [J67] E. Babae, 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), pp. 661-714, Dec 2017.  
<https://doi.org/10.1080/08839514.2018.1430469> Taylor & Francis, ISSN 0883-9514, ISI-IF :0.988 , S-CS:1.06
- [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> Wiley, ISSN 1532-0626 , ISI-IF : 1.133, S-CS:1.31
- [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), pp. 1-18, 10 Nov. 2017  
<https://doi.org/10.1002/dac.3308> Wiley, ISSN 1074-5351 , ISI-IF : 1.717, S-CS:1.88
- [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, October 2017  
<https://doi.org/10.1140/epjc/s10052-017-5246-2> Springer, ISSN 1434-6044 , ISI-IF : 5.172, S-CS:3.51

- [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, pp.76-86, Sept 2017  
<https://doi.org/10.1016/j.jpdc.2017.04.006> Elsevier, ISSN 0743-7315 , ISI-IF : 1.815, S-CS:2.91
- [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> Springer, ISSN 2192-113X, S-CS: 3.19
- [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, pp. 99-111, 15 June 2017  
<https://doi.org/10.1016/j.jnca.2017.02.013> Elsevier, ISSN 1084-8045 , ISI-IF: 3.991 , S-CS:5.13
- [J60] Y Han, A T Chronopoulos , Scalable Loop Self-Scheduling Schemes for Large-Scale Clusters and Cloud Systems, *International Journal of Parallel Programming*, 45, pp. 595–611, 11 May 2017  
<https://doi.org/10.1007/s10766-016-0434-5> Springer, ISSN 0885-7458 , ISI-IF : 0.897, S-CS:1.11
- [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> Wiley, ISSN 1532-0626 , ISI-IF : 1.133, S-CS:1.31
- [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), pp. 82-95, 2017.  
<https://doi.org/10.1504/IJAIP.2017.081181> InderScience, ISSN 1755-0386 , S-CS:0.66
- [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) , pp. 971-983, 2016.  
<https://doi.org/10.1080/18756891.2016.1237194> Atlantis Press and Taylor & Francis, ISSN 1875-689, ISI-IF :2.153 ,S-CS: 1.89.
- [J55] R Ranjan, A Chronopoulos, Y Feng, Computational Algorithms for Solving Spectral/h Stabilized Incompressible Flow Problems, *Journal of Mathematics Research*, 8(4), pp. 21-39, Aug 2016.  
<http://dx.doi.org/10.5539/jmr.v8n4p21> Canadian Center of Science and Education, ISSN 1916-9795.
- [J54] S. Stathakis, F. Balbi, A. T. Chronopoulos, N. Papanikolaou, Monte Carlo modeling of linear accelerator using distributed computing, *JBUON (Journal of Balkan Union of Oncology)*, 21(1), pp. 252-260, Jan.-Feb. 2016.  
<https://www.jbuon.com/pdfs/JBUON-21-1-33.pdf> ISSN 1107-0625 , S-CS:1.15
- [J53] H. Siar, K. Kourosh, A. T. Chronopoulos, An effective game theoretic static load balancing applied to distributed computing, *Cluster Computing*, 18 (4), pp. 1609-1623, Dec 2015.  
<https://doi.org/10.1007/s10586-015-0486-0> Springer, ISSN 1386-7857 , ISI-IF : 1.601, S-CS:2.04
- [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, pp. 88-98, March 2015  
<https://doi.org/10.1016/j.jnca.2014.11.009> Elsevier, ISSN 1084-8045 , ISI-IF: 3.991 , S-CS:5.13
- [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), pp. 995–1004, 2014.  
<https://doi.org/10.1109/JSYST.2014.2308452> IEEE, ISSN 1932-8184 , ISI-IF : 4.337, S-CS:3.68
- [J50]\*\* S. Penmatsa, A. T. Chronopoulos, Cost minimization in utility computing systems, *Concurrency and Computation: Practice and Experience*, 16(1), pp. 287-307, 2014.  
<https://doi.org/10.1002/cpe.2984> Wiley, ISSN 1532-0626 , ISI-IF : 1.133, S-CS:1.31
- [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), pp. 2302-2327, 2012.  
<https://doi.org/10.1002/cpe.2812> Wiley, ISSN 1532-0626 , ISI-IF : 1.133, S-CS:1.31



- [J48]\*\* S. Penmatsa, A. T. Chronopoulos, Game-theoretic static load balancing for distributed systems, *Journal of Parallel and Distributed Computing*, 71(4), pp. 537-555, 2011.  
<https://doi.org/10.1016/j.jpdc.2010.11.016> Elsevier, ISSN 0743-7315 , ISI-IF : 1.815, S-CS:2.91
- [J47] A. Bassias, A. T. Chronopoulos, Statistical Performance Analysis of the MUSIC Algorithm in Angular Sectors, *Journal of Signal Processing*, 15(1), pp. 37-46, 2011.  
<http://ci.nii.ac.jp/naid/40018702235> Research Inst. Sign. Proc., Japan, ISSN 1342-6230
- [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), pp. 1324-1339, 2010.  
<https://doi.org/10.1016/j.peva.2010.08.020> Elsevier, ISSN 0166-5316, ISI-IF : 1.786, S-CS:1.71
- [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), pp. 923-932, 2010.  
<https://doi.org/10.1109/TCOMM.2010.03.070205> IEEE, ISSN 0090-6778, ISI-IF : 4.058, S-CS:5.05
- [J44]\* A. T. Chronopoulos, A. Kucherov, Block s-step Krylov iterative methods, *Numerical Linear Algebra with Applications*, 17(1), pp. 3-15, 2010.  
<https://doi.org/10.1002/nla.643> Wiley, ISSN 1070-5325 , ISI-IF : 1.281, S-CS: 1.39
- [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), pp. 882-889, 2009.  
**DOI:** [10.1109/TWC.2008.071286](https://doi.org/10.1109/TWC.2008.071286) IEEE, ISSN 1536-1276 , ISI-IF : 5.888, S-CS: 6.43
- [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), pp. 1156-1174, 2008.  
<https://doi.org/10.1137/070679946> SIAM, ISSN 1064-8275 , ISI-IF : 2.046, S-CS:2.61
- [J41]\*\* D. Grosu, A.T. Chronopoulos, M. Y. Leung, Cooperative load balancing in distributed systems, *Concurrency and Computation-Practice and Experience*, 20(16), pp. 1953-1976, 2008.  
<https://doi.org/10.1002/cpe.1331> Wiley, ISSN 1532-0626 , ISI-IF : 1.133, S-CS:1.31
- [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), pp. 353-355, 2008.  
<https://doi.org/10.1109/LCOMM.2008.071968> IEEE, ISSN 1089-7798, ISI -IF. 2.723, S-CS:3.01
- [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), pp. 246-264, 2008  
<https://doi.org/10.1016/j.jpdc.2007.07.003> Elsevier, ISSN 0743-7315 , ISI-IF : 1.815, S-CS:2.91
- [J38]\*\* D. Grosu, A.T. Chronopoulos, A Truthful Load Balancing Mechanism with Verification, *Parallel Processing Letters*, 16(1), pp. 3-17, 2006.  
<https://doi.org/10.1142/S0129626406002435> World Scientific, ISSN 0129-6264 , S-CS: 0.73
- [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), pp. 1559-1573, 2006.  
<https://doi.org/10.1002/cpe.987> Wiley, ISSN 1532-0626 , ISI-IF : 1.133, S-CS:1.31
- [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), pp. 771-785, 2006.  
<https://doi.org/10.1002/cpe.960> Wiley, ISSN 1532-0626 , ISI-IF : 1.133, S-CS:1.31
- [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), pp. 110-117, 2005.  
<https://doi.org/10.1504/IJCSE.2005.009696> InderScience, ISSN 1742-7185 S-CS: 1.06
- [J34]\*\* D. Grosu, A.T. Chronopoulos, Noncooperative load balancing in distributed systems, *Journal of Parallel and Distributed Computing*, 65(9), pp. 1022-1034, 2005.  
<https://doi.org/10.1016/j.jpdc.2005.05.001> Elsevier, ISSN 0743-7315 , ISI-IF : 1.815, S-CS:2.91
- [J33] C. Tang, A. T. Chronopoulos, E. Yaprak, An efficient network-switch scheduling for real-time applications, *IEEE Transactions on Communications*, 53(3), pp. 401-407, 2005.  
<https://doi.org/10.1109/TCOMM.2005.843434> IEEE, ISSN 0090-6778, ISI-IF : 4.058, S-CS:5.05

- [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), pp. 77-84, 2004.  
<https://doi.org/10.1109/TSMCB.2002.805812> IEEE, ISSN 1083-4419, ISI-IF : 6.22
- [J31] A. T. Chronopoulos, C. Tang, E. Yaprak, An efficient ATM network switch scheduling, *IEEE Transactions on Broadcasting*, 49(3), pp. 278 -292, 2003.  
**DOI:** [10.1109/TBC.2003.817079](https://doi.org/10.1109/TBC.2003.817079) IEEE, ISSN 0018-9316 , ISI-IF : 3.909, S-CS:4.74
- [J30] Anthony 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), pp. 827-837, 2003.  
[https://doi.org/10.1016/S0743-7315\(03\)00112-6](https://doi.org/10.1016/S0743-7315(03)00112-6) Elsevier, ISSN 0743-7315 , ISI-IF : 1.815, S-CS:2.91
- [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), pp. 498-510, 2002.  
**DOI:** [10.1109/TVT.2002.1002499](https://doi.org/10.1109/TVT.2002.1002499) IEEE, ISSN 0018-9545 , ISI-IF : 4.432 , S-CS:4.69
- [J28] A. Chronopoulos, D. Kincaid, On the Odir iterative method for non-symmetric indefinite linear systems, *Numerical Linear Algebra with Applications*, 8(2), pp. 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) Wiley, ISSN1070-5325, ISI-IF : 1.281, S-CS:1.39
- [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), pp. 315-333, 2000.  
[https://doi.org/10.1016/S0167-739X\(00\)00082-0](https://doi.org/10.1016/S0167-739X(00)00082-0) Elsevier, ISSN 0167-739X , ISI-IF : 3.997, S-CS:4.76
- [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), pp. 146-152, 2000.  
<https://doi.org/10.1080/02286203.2000.11442151> Taylor & Francis, ISSN 0228-6203, S-CS:0.52
- [J25] E. Yaprak, A. T. Chronopoulos, K. Psarris, Y. Xiao, Dynamic buffer allocation in an ATM Switch, *Computer Networks*, 31(18), pp. 1927-1933, 1999.  
[https://doi.org/10.1016/S1389-1286\(99\)00004-3](https://doi.org/10.1016/S1389-1286(99)00004-3) Elsevier, ISSN 1389-1286, ISI-IF : 2.516, S-CS:3.33
- [J24] A. M. Wissink, A. S. Lyrantzis, A. T. Chronopoulos, Parallel Newton-Krylov Method for Rotary-wing Flowfield Calculations, *AIAA Journal*, 37(10), pp. 1213-1221, 1999.  
<https://doi.org/10.2514/2.615> ISSN 0001-1452 , ISI-IF : 1.556, S-CS:2.42
- [J23] A. T. Chronopoulos, C. Johnston, A real-time traffic simulation system, *IEEE Transactions on Vehicular Technology*, 47(1), pp. 321-331, 1998.  
<https://doi.org/10.1109/25.661057> IEEE, ISSN 0018-9545 , ISI-IF : 4.432 , S-CS:4.69
- [J22] A. T. Chronopoulos, G. Wang, Parallel solution of a traffic flow simulation problem, *Parallel Computing*, 22(14), pp. 1965-1983, 1997.  
[https://doi.org/10.1016/S0167-8191\(97\)00070-7](https://doi.org/10.1016/S0167-8191(97)00070-7) Elsevier, ISSN 0167-8191 , ISI-IF : 0.938, S-CS:1.46
- [J21] A. T. Chronopoulos, G. Wang, Traffic Flow Simulation through Parallel Processing, *Transportation Research Record*, 1566, pp. 31-38, 1996.  
<https://doi.org/10.3141/1566-04> Sage, ISSN 0361-1981 S-CS: 0.83
- [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), pp. 145-153, 1996.  
[https://doi.org/10.1016/0965-9978\(96\)00018-X](https://doi.org/10.1016/0965-9978(96)00018-X) Elsevier, ISSN 0021-9991 , ISI-IF : 2.864, S-CS: 3.23
- [J19] A. M. Wissink, A. S. Lyrantzis, A. T. Chronopoulos, Efficient iterative methods applied to the solution of transonic flows, *Journal of Computational Physics*, 123(2), pp. 379-393, 1996.  
<https://doi.org/10.1006/jcph.1996.0031> Elsevier, ISSN 0021-9991 , ISI-IF : 2.864, S-CS: 3.23
- [J18]\* A. T. Chronopoulos, C. D. Swanson, Parallel iterative S-step methods for unsymmetric linear systems, *Parallel Computing*, 22(5), pp. 623-641, 1996.  
[https://doi.org/10.1016/0167-8191\(96\)00022-1](https://doi.org/10.1016/0167-8191(96)00022-1) Elsevier, ISSN 0167-8191 , ISI-IF : 0.938, S-CS:1.46
- [J17] A. T. Chronopoulos, On the squared unsymmetric Lanczos method, *Journal of Computational and Applied Mathematics*, 54(1), pp. 65-78, 1994.  
[https://doi.org/10.1016/0377-0427\(94\)90395-6](https://doi.org/10.1016/0377-0427(94)90395-6) Elsevier, ISSN 0377-0427 , ISI-IF : 1.632, S-CS: 1.69
- [J16] O. Axelsson, A. T. Chronopoulos, On nonlinear generalized conjugate gradient methods, *Numerische Mathematik*, 69(1), pp. 1-15, 1 Nov 1994.  
<https://doi.org/10.1007/s002110050076> Springer, ISSN 0029-599X , ISI-IF : 2.37, S-CS: 2.34
- [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), pp. 1559-1564, 1993.  
<https://doi.org/10.1109/50.249896> IEEE, ISSN 0733-8724 , ISI-IF : 3.652, S-CS: 4.42

- [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), pp. 211-232, 1993.  
[https://doi.org/10.1016/0378-4754\(93\)90002-C](https://doi.org/10.1016/0378-4754(93)90002-C) Elsevier, ISSN 0378-4754 , ISI-IF : 1.476, , S-CS:1.68
- [J13] A. T. Chronopoulos, A. Lyrintzis, P. Michalopoulos, C. Rhee and P. Yi, Traffic flow simulation through high order traffic modelling, *Mathematical and Computer Modelling*, 17(8), pp.11-22, 1993.  
[https://doi.org/10.1016/0895-7177\(93\)90150-W](https://doi.org/10.1016/0895-7177(93)90150-W) Elsevier, ISSN 0895-7177, ISI-IF : 1.366
- [J12] A. Lyrintzis, A. M. Wissink, A. T. Chronopoulos, Efficient iterative methods for the transonic small disturbance equation, *AIAA Journal*, 30(10), pp. 2556-2558, 1992.  
<https://doi.org/10.2514/3.11263> ISSN 0001-1452 , ISI-IF : 1.556, S-CS:2.42
- [J11] A. T. Chronopoulos, P. Michalopoulos, J. Donohoe, Efficient traffic flow simulation computations, *Mathematical and Computer Modelling*, 16(5), pp.107-120, 1992.  
[https://doi.org/10.1016/0895-7177\(92\)90123-3](https://doi.org/10.1016/0895-7177(92)90123-3) Elsevier, ISSN 0895-7177, ISI-IF : 1.366
- [J10] A. T. Chronopoulos, Z. Zlatev, Iterative methods for nonlinear operator equations, *Applied Mathematics and Computation*, 51(2-3), pp. 167-180, 1992.  
[https://doi.org/10.1016/0096-3003\(92\)90072-9](https://doi.org/10.1016/0096-3003(92)90072-9) Elsevier, ISSN 0096-3003 , ISI-IF : 2.3, S-CS: 2.32
- [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> Sage, ISSN 1094-3420 , ISI-IF : 2.015, S-CS: 1.9
- [J8]\* S. K. Kim, A. T. Chronopoulos, An efficient nonsymmetric Lanczos method on parallel vector computers, *Journal of Computational and Applied Mathematics*, 42(3), pp. 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) Elsevier, ISSN 0377-0427 , ISI-IF : 1.632, S-CS: 1.69
- [J7] A. T. Chronopoulos, Nonlinear CG-like Iterative Methods, *Journal of Computational and Applied Mathematics*, 40(1), pp. 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) Elsevier, ISSN 0377-0427 , ISI-IF : 1.632, S-CS: 1.69
- [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), pp. 74-91, 1991.  
<https://doi.org/10.1177/109434209100500307> Sage, ISSN 1094-3420 , ISI-IF : 2.015, S-CS:1.9
- [J5]\* S. K. Kim, A. T. Chronopoulos, A class of Lanczos-like algorithms implemented on parallel computers, *Parallel Computing*, 17(6-7), pp. 763-778, 1991.  
[https://doi.org/10.1016/S0167-8191\(05\)80065-1](https://doi.org/10.1016/S0167-8191(05)80065-1) Elsevier, ISSN 0167-8191 , ISI-IF : 0.938, S-CS:1.46
- [J4]\* A. T. Chronopoulos, s-Step Iterative Methods for (Non)Symmetric (In)Definite Linear Systems, *SIAM Journal on Numerical Analysis*, 28(6), pp. 1776-1789, 1991.  
<https://doi.org/10.1137/0728088> SIAM, ISSN 0036-1429 , ISI-IF : 2.047, S-CS:2.6
- [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), pp. 9-24, December 1990.  
<https://doi.org/10.1177/109434209000400402> Sage, ISSN 1094-3420 , ISI-IF : 2.015, S-CS:1.9
- [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), pp. 37-53, 1989.  
[https://doi.org/10.1016/0167-8191\(89\)90062-8](https://doi.org/10.1016/0167-8191(89)90062-8) Elsevier, ISSN 0167-8191 , ISI-IF : 0.938, S-CS:1.46
- [J1]\*A. T. Chronopoulos, C. W. Gear, s-step iterative methods for symmetric linear systems, *Journal of Computational and Applied Mathematics*, 25(2), pp. 153-168, 1989.  
[https://doi.org/10.1016/0377-0427\(89\)90045-9](https://doi.org/10.1016/0377-0427(89)90045-9) Elsevier, ISSN 0377-0427 , ISI-IF : 1.632, S-CS: 1.69

#### ACM/IEEE Refereed Conference Proceedings Publications

- [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, pp. 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* , pp. 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, 25 Nov 2015, pp. 113-120.  
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, 25 Nov 2015, pp. 153-159.  
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, 2014, pp. 80-84.  
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 Aug 2014, pp. 44-50.  
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, 16 Oct 2013, pp. 1-6.  
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, Aug 2013, pp. 7-10.  
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, May 2013, pp. 955-962.  
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, May 2013, pp. 1735-1742.  
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, 14 Oct 2012, pp. 433-438.  
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, pp. 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, 2009, pp. 66-73.  
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 June 2008, pp. 11-18.  
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, pp. 410-415, 17-20 September 2007.  
DOI: [10.1109/CLUSTR.2007.4629257](https://doi.org/10.1109/CLUSTR.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, 17 Sept 2007, pp. 267-274.



**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, pp. 241-248, 17-20 September 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, pp. 403 - 403, 15-19 September 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, pp. 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, pp. 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, pp. 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, pp. 600-605, 5-7 February 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, pp. 1-8, 25-29 April 2006.

**DOI:** [10.1109/IPDPS.2007.370312](https://doi.org/10.1109/IPDPS.2007.370312)

[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, pp. 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, pp. 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, pp. 1258 – 1262, 8-10 January 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*, Vol. 6, pp. 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, pp. 353-364, 4-9 September 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, pp. 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, pp. 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, pp. 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, pp. 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, pp. 393-398, 30 August 2004.

**DOI:** [10.1109/NCA.2004.1347807](https://doi.org/10.1109/NCA.2004.1347807)

[C20] A. T. Chronopoulos, P. Cota, 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, pp. 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, pp. 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, pp. 353-359, 24-26 September 2002.

**DOI:** [10.1109/CLUSTR.2002.1137767](https://doi.org/10.1109/CLUSTR.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, pp. 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, pp 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, pp. 445-454, 24-26 September 2002.

**DOI:** [10.1109/CLUSTR.2002.1137780](https://doi.org/10.1109/CLUSTR.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, pp. 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, pp. 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, pp. 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/CLUSTR.2001.959989](https://doi.org/10.1109/CLUSTR.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, pp. 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, pp. 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, pp. 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, pp. 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, pp. 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, pp. 455-461, 30 June - 2 July 1998.

DOI: [10.1109/ISCC.1998.702564](https://doi.org/10.1109/ISCC.1998.702564)

[C3] S. Ziavras, 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, pp. 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., pp. 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, pp. 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, Anthony T. Chronopoulos, Hao Yue. Performance optimization and parallelization of a parabolic equation solver in computational ocean acoustics on modern many-core computer. *The 1st International Conference on Computer Science and Application Engineering (CSAE2017)*, Shanghai, China, pp. 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, A. 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 8295, Image Processing: Algorithms and Systems X; and Parallel Processing for Imaging Applications II, IS&T/SPIE*, San Francisco, Vol. 8295, pp. 829518-1, 829518-12, 22-26 January 2012.

<https://doi.org/10.1117/12.905969>

[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, pp. 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, pp. 205-213, 17-20 July 2002.
- [OC16] A. T. Chronopoulos, A. B. Kucherov, A Parallel Krylov-Type Method for Nonsymmetric Linear Systems, *IEEE (sponsored) International Conference on High-Performance Computing*, Hyderabad, India, pp. 104-114, 17-20 December 2001- Springer.  
DOI: [https://doi.org/10.1007/3-540-45307-5\\_10](https://doi.org/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, pp. 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, pp. 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, pp. 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, pp. 7-13, 23-31 October 1998.
- [OC11] A. T. Chronopoulos, Y. Gong, H. Grebel, S. Zivavras, Performance Evaluation of a 100-TeraOps Parallel System, *11th ISCA International Conference on Parallel and Distributed Computing Systems*, Chicago, IL, pp. 204-211, 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, pp. 1060-1070, June 1997.
- [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, pp. 43-48, May 1997.
- [OC8] S. Zivavras, 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, pp. 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, pp. 1-12, January 1995.
- [OC6] D. Papadopoulos, C. Siettos, A. G. Boudouvis, A. T. Chronopoulos, Implementation and Performance of Arnoldi and Lanczos Eigensolvers in Galerkin-Finite Element Computations, *Proceedings of Advances in Computational Mechanics, CICIL-COMP Ltd, Edinburgh, Scotland, M. Papadrakakis and B.H.V. Topping (Editors), 1994; 2nd International Conference on Computational Structures Technology*, Athens, Greece, pp. 1-9, August 1994.
- [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, pp. 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, pp. 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, pp. 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, *4<sup>th</sup> SIAM Conference on Parallel Processing for Scientific Computing*, Chicago, Illinois, pp. 63-65, 11-13 December 1989.

#### Other (Non-overlapping) Publications

- [OP11] T. Abe, A. T. Chronopoulos (2017), Convergence characteristics of the generalized residual cutting method. *arXiv preprint [arXiv:1709.07184](https://arxiv.org/abs/1709.07184)*, 21 Sept 2017

- [OP10] R Ranjan, Y Feng, A Chronopoulos, Augmented Stabilized Formulations with Fictitious Boundary Conditions, *CS-TR-2016-010, Department of Computer Science, University of Texas at San Antonio*, December 2016
- [OP9] A. T. Chronopoulos, I. K. Sethi, Traffic route generation and adaptation using case-based reasoning (Commentary), *ITS JOURNAL (GORDON BREACH PUB, TAYLOR & FRANCIS GROUP)*, 3(3), pp. 252-254, 1996.
- [OP8] A. T. Chronopoulos, S. K. Kim, s-Step Orthomin and GMRES implemented on parallel computers, *TR UMSI 90/43R*, 1990. Also, published as: (1) Towards Efficient Parallel Implementation of s-step Iterative Methods, *Supercomputer*, 47(IX-1), pp. 4-17, 1992; (2) [arXiv:2001.04886v2](https://arxiv.org/abs/2001.04886v2), 27 Jan 2020.
- [OP7] G. Rockswold, A. T. Chronopoulos, Efficient Parallel Implementation of Matrix-free Iterative Methods in Stiff ODE Codes, *T. R. UMSI 91/16*, University of Minnesota Supercomputing Institute, Minnesota, pp. 1-13, 1991.
- [OP6] A. T. Chronopoulos, A fast squared Lanczos method for nonsymmetric linear systems, *T.R. UMSI 91310*, University of Minnesota Supercomp. Institute, Minneapolis, Minnesota, pp. 1-25, 1991.
- [OP5] A. T. Chronopoulos, Krylov Subspace Iterative Methods for Nonsymmetric Indefinite Linear Systems, *Technical Report TR 90-21*, Department of Computer Science, University of Minnesota, Minneapolis, Minnesota, pp. 1-27, 1990. Also, *Army High Performance Computing Center preprint AHPCRC 91-23*, 1991.
- [OP4] Kim, S. K., A. T. Chronopoulos, s-step Lanczos and Arnoldi Methods on Parallel Computers, *TR UMSI 1990/14R*, University of Minnesota Supercomputing Institute, MPLS,MN, pp. 1-26, 1990.
- [OP3] A. T. Chronopoulos, S. Ma, On Squaring Krylov Subspace Iterative methods for Nonsymmetric Linear Systems, *TR 89-67*, CS Dept, University of Minnesota, MPLS, MN, pp. 1-28, 1989.
- [OP2] S. K. Kim, A. T. Chronopoulos, Multitasking Application using CRAY-2 on Arnoldi's Method for Computing a few Eigenvalues in a Large Sparse Matrix, *T.R. UMSI 1988/142*, University of Minnesota Supercomputing Institute, Minneapolis, Minnesota, pp. 1-19, 1988.
- [OP1] A. T. Chronopoulos, A Class of Parallel Iterative Methods Implemented on Multiprocessors, *Ph. D. thesis, University of Illinois, ProQuest Dissertations Publishing, 1987. 8711782*.