

Curriculum Vitae

Grigoris Tziallas

PERSONAL INFORMATION

- Year and place of birth: 1962, Greece
- Profession: Electrical Engineer - Information Systems Engineer
- Nationality: Greek

MAIN EDUCATION

1986	Diploma in Electrical Engineering, Aristotle University of Thessaloniki, Greece, March 1986
1988	Master of Philosophy in Information Systems Engineering, University of Bradford, U.K., December 1988
2004	PhD in Computer Science, UMIST, Manchester, U.K., December 2004

PROFESSIONAL POSITIONS

01/1990 - 02/1991	HITEC S.A. - Research Engineer on Software Engineering and Artificial Intelligence - A.I. Group Leader
10/1991 - 10/1992	Greek Army EDP Center - Programmer
10/1992 - 02/1994	HITEC S.A. - Research Engineer, Project Manager and R&D Manager for ESPRIT, BRITE, FAIR and STRIDE projects
02/1994 - 10/1995	ORASIS Ltd - Technical Manager - Development of commercial software
11/1995 – 1/2019	Technological Educational Institute of Sterea Hellas (former T.E.I of Lamia), Department of Electronics, Lecturer – Assistant Professor – Associate Professor – Professor
1/2019 – 2/2021	University of Thessaly, General Department, Professor
2001 –	Electrical and Informations Systems Engineer
3/2021 –	University of Thessaly, School of Science, Department of Computer Science and Telecommunications, Professor

PUBLICATIONS IN CONFERENCE PROCEEDINGS

1. A.V. Machias, G.D. Tziallas, and P.S. Santas, "A Knowledge-Based System for the Analysis and Simulation of Qualitative Models of Power System Protective Devices", IASTED International Symposium on Simulation and Modeling, Lugano, Switzerland, June 19-22, 1989.
2. G.D. Tziallas and A.V. Machias, "A knowledge-based Approach for the design of Electrical Installations in Buildings" IASTED International Conference on Expert Systems, Zurich, June 26-28, 1989.
3. N. Tsoutsou, J. Vergados, M. Loupis, G. Tziallas, B. Dimitriadis, "On-line multi-transputer system for quality inspection of composite materials", ERCIM Conference on Affordable Parallel Processing for Industry and Commerce, Rutherford Appleton Laboratory, Abingdon, UK, 10-12 November 1993 (in Proceedings)

4. G. Jacucci, P. Kabat, L. Pereira, P. Verrier, G. Bertanzon, G. Giannerini, J. Huygen, P. Steduto, J. Teixeira, G. Toiler, G. Tziallas, C. Uhrik, J. Vera Munoz, P. Yovchev, Laboratory for Informatic Engineering, "HYDRA: Decision Support for Irrigation Management", Decision Support - 2001, Toronto September 12 - 16, 1994.
5. Assimakis N. D., Giannakopoulos P. K., Lainiotis D. G., Sanida F. L., Ventzas D., Tziallas G., Koutsonikolas A., "Centralized and distributed algorithms for the solution of the discrete time Riccati equation", Proceedings of 5th International Conference on Information System Analysis and Synthesis (ISAS), vol. 6, pp. 461-468, 1999.
6. M. Loupis, G. Tziallas, "TruckManager: An Integrated Automation System for Oil Terminals and Tank Farms", 8th Panhellenic Conference on Informatics with international participation, Nicosia, Cyprus, 8-10 November 2001.
7. Tziallas G., Theodoulidis B., "Building Autonomic Computing Systems Based on Ontological Component Models and a Controller Synthesis Algorithm", 1st International Workshop on Autonomic Computing Systems, in Proceedings of Dexa 2003, published by IEEE Computer Society, Prague, Czech Republic, September 1-5, 2003.
8. Tziallas G., Theodoulidis B., "A Tool for Building Autonomic Computing Systems Based on Self-Adaptation", SASE 2008: First Workshop on Self-Adaptive Software Engineering, IEEE CSMR 2008.
9. Adam M., Assimakis N., Ilias A., Tepelidou E. and Tziallas G., "Generalized k,m-step Fibonacci sequences and matrices", 12th International Conference of Algebraic Hyperstructures and its Applications, 2014.
10. Koziri M., Loukopoulos T., Adam M., Assimakis N., Tziallas G. "On the Optimal Processor Assignment for Computing the Steady State Kalman Filter in Parallel and Distributed Systems", Proceedings of 5th World Conference on Information Systems and Technologies, pp. 427-437, 2017.

PUBLICATIONS IN JOURNALS

1. G.D. Tziallas and M. I. Loupis, "A 555 timer indicates inductance directly", Electronic Engineer, April 1988, p.27.
2. M.I. Loupis, G.D. Tziallas, "A knowledge - based framework for VLSI design", Microprocessing and Microprogramming, vol.28, nos 1-5, 1989, pp. 327-332
3. M.I. Loupis, G.D. Tziallas, "Trig converter for inductance measurement", Electronic Engineer, May 1990, pp 31-32
4. G.D. Tziallas, S. Karkanis, K. Tsoutsou, "A knowledge - based approach for the development of the concurrent software", Microprocessing and Microprogramming, vol.31, 1991, pp. 25-30.
5. McBrien, P., M. Niézette, D. Pantazis, A.-H. Seltveit, U. Sundin, C. Theodoulidis, G. Tziallas and R. Wohed, «A Rule Language to Capture and Model Business Policy Specifications», In Advanced Information Systems Engineering, Lecture Notes in Computer Science (LNCS), No. 498, pp. 307-318, Springer-Verlag, 1991.
6. Loupis, J.N. Avaritsiotis, G.D. Tziallas, "Comparative study of statistical distributions in electromigration induced failures of Al/Cu thin-film interconnects", Active and Passive Electronic Components, vol.16, 1994, pp.119-126
7. Tziallas G., Theodoulidis B., "A controller synthesis algorithm for building self-adaptive software", Information and Software Technology journal, Vol 46/11, 2004, pp 719-727, Elsevier.
8. Adam M., Assimakis N., Tziallas G., Sanida F., "Riccati equation solution method for the computation of the solutions of $X+ATX-1A=Q$ and $X-ATX-1A=Q$ ", The Open Applied Informatics Journal, vol. 3, pp. 22-33, 2009.

9. Assimakis N., Tziallas G., Anagnostopoulos I. and Polyzos A., “Tank level estimation using Kalman and Lainiotis filters”, Asian Journal of Mathematics and Computer Research, vol. 10, issue 1, pp. 19-38, 2016.
10. Assimakis N., Tziallas G., Anagnostopoulos I, Polyzos A., “Tank level prediction using Kalman filter”, Asian Journal of Mathematics and Computer Research, vol 11(4), pp. 251-271, 2016.
11. Tziallas G., Kontogeorgos A., Papanastasiou C., «An e-learning platform for departmental use», Creative Education 7, pp 1189-1194, 2016
12. Adam M., Assimakis N., Fazaeli E., Tziallas G., “On the solution of the quasi Riccati and Lyapunov equations”, Asian Journal of Mathematics and Computer Research, vol. 13, no 1, pp. 22-33, 2016.
13. Assimakis N., Tziallas G., Adam M., Polyzos A., Papanastasiou C., “Mobile position estimation and prediction using steady state Kalman filter”, International Journal of Computer Science and Information Technology Research, vol. 4, issue 3, pp: 261-272, 2016
14. N. Assimakis, G. Tziallas, I. Anagnostopoulos, A. Polyzos, “Tank Level Prediction Using Kalman and Lainiotis Filters”, Advances in Mathematics and Computer Science Vol. 4, Book Publisher International, 2019.
15. Assimakis N., Adam M., Tziallas G., “Lainiotis Information Filter”, Engineering World, vol. 2, pp. 271-273, 2020.
16. G. Tziallas, M. Adam, N. Assimakis, A. Polyzos, “Position, velocity and acceleration tracking using Kalman Filter”, to appear, Theory and Practice of Mathematics and Computer Science, Book Publisher International, 2021

RESEARCH INTERESTS

- Software Development Methodologies
- Industrial Automation Software
- Autonomic Computing Systems and Self-Adaptive Software
- Ontological models

CITATIONS

106 (Google Scholar)