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## **1. Curriculum Vitae**

I graduated in 1979 from the Department of Mathematics, University of Ioannina, Greece. In June 1994, I was awarded Doctor of the Department of Mathematics, in Aristotle University of Thessaloniki, Greece. In February 2004, I was elected Assistant Professor to the Technical Institute of Western Macedonia (tenure from Mars, 2007). In December 2014, I was elected Associate Professor in the same Institution, at the Dept. of Geotechnology and Environmental Engineering.

## **2. Research Programmes**

I have participated as a salaried worker to the following Research Programmes:

- Stochastic Tree Machines and their Minimization Algorithms (06/02/1996 until 06/02/1998). General Secretariat of Research and Technology of Greece.
- Geometrical Hyper Structures and their Applications (28/09/1996 until 26/09/1998). Research Committee, University of Thrace, Greece.
- European Programme «Immunocomputing» (10/03/2001 until

09/03/2003), realized by the Research Committee of Aristotle University of Thessaloniki, Greece.

- ΑΡΧΙΜΗΔΗΣ III - Applications of dynamical systems (01/03/2012 until 28/02/20015). TWM.

### 3. Publications

1. The rank of a formal tree power series (with S.Bozapalidis). Theoretical Computer Science vol. 27(1983) pp. 211-215, Elsevier; MR 86a:68049
2. Context free closed families of languages. International Journal of Computer Mathematics, vol. 48 (1992), pp. 1-7, Gordon and Breach.
3. Stochastic Tree Functions. International Journal of Computer Mathematics, vol. 52(1994), pp. 149-160. Gordon and Breach;
4. Contribution to the theory of tree functions. Ph.D. Thesis, Department of Mathematics, Aristotle University of Thessaloniki, (1994). In Greek.
5. Stochastically costed tree automata: Turakainen's theorem. Theoretical Computer Science 156(1996) pp.145-158, Elsevier; MR 97a:68114
6. Costochastic tree Automata and Convexly algebraic series. Journal Institute Mathematics and Computer Science, Comp. Sci. Ser. Vol. 8, No 1(1997) pp.13-21; MR 1467620
7. Some remarks on recognizable series on trees. International Journal of Mathematics, Vol. 70, (1999), pp. 649-655; MR 2000b:68158
8. Polytopic codes (with S.Bozapalidis). Theoretical Informatics and Applications, Vol.36(2002) 5-28, pp.1-28; MR 2003h:68101
9. Finitely Presentable Tree Series (with S. Bozapalidis). Acta Cybernetica, vol. 17(2006) 459-470; MR 2007j:68112
10. On the Recognizability of Fuzzy Languages I (with S. Bozapalidis). Fuzzy Sets and Systems, 157(2006), 2394-2402; MR 2007c:6807
11. Fuzzy Congruences on Fuzzy Algebras. Applied Mathematical Sciences, vol.1, 2007, no.17, 815-819; MR 2008b:08003

12. Non Deterministic Recognizability of Fuzzy Languages. Applied Mathematical Sciences, vol.1, 2007, no.17, 815-819; MR 2324943
13. Immune-based Transformations (with S.Bozapalidis, A.Kalampakas, G.Rahonis), Report, Immunocomputing Project.
14. On the recognizability of fuzzy languages II (with S.Bozapalidis). Fuzzy Sets and Systems, 159(2008), 107-113; MR 2009a:68040
15. Stochastic Monoids. Applied Mathematical Sciences, vol.3, 2009, no.9, pp.443-446; MR 2010g:08002
16. Fuzzy Tree Language Recognizability (with S. Bozapalidis). Fuzzy Sets and Systems, 161(2010), 716-734; MR 2578628
17. Minimization of Planar Directed Acyclic Graph Algebras (with A.Kalampakas). International Journal of Foundations of Computer Science. 24(2013), no.4, pp. 519-531.
18. Recognizability in Stochastic Monoids (with A. Kalampakas and S. Spartalis). Ratio Mathematica no.26,2014.
19. Syntactic Fuzzy Monoids (with A. Kalampakas). Italian Journal of Pure and Applied Mathematics. Vol. 32, 2014.
20. Syntactic Nondeterministic Monoids (with A. Kalampakas). Journal of Discrete Mathematical Sciences and Cryptography, 2015.