

Genetic Programming for Evolving and Robust Adaptive Systems

Lecture of **Dr Athanasios Tsakonas**

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P302, Poole House, Talbot Campus, 4pm–5pm

Nowadays, the need for highly accurate adaptive modelling has become a primary aim for most state-of-the-art prediction systems. Research is currently focusing into evolving systems that maintain a high degree of autonomy, through feedback mechanisms and goal-related assistance. Genetic programming is an advance which has been established in the last two decades as a robust and effective computational intelligence method. Due to its ability to express complex domains and its evolutionary nature, genetic programming can play a significant and decisive role at most levels of such an evolving system.

Dr Athanasios Tsakonas

Athanasios Tsakonas, Ph.D received his M.Eng in Electrical and Computer Engineering from the National Technical University of Athens and his Ph.D from University of the Aegean. Athanasios' Ph.D thesis was "Computational Intelligence in Complex Managerial and Financial Domains – The Evolutionary Neural Logic Network Paradigm". Athanasios has gathered strong experience in the analysis, design and development of specialized computational intelligence systems, for the financial and medical domain. His experience includes participation in European and domestic research projects (such as BOEMIE, SHARE, EUNITE, etc.), occupation of related research positions in top research centers (such as N.C.S.R. Demokritos) or in the private sector (banks, software development companies, etc.), as well as teaching related courses in universities (Aristotle University of Thessalonika, Demokritus University of Thrace, etc.). His research interests include computational intelligence, data mining, genetic programming and complex systems. He has published 1 book and more than 45 articles, in total, in international scientific journals and conferences.

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