

# Evolving Connectionist Systems: Methods and Applications in Bioinformatics, Brain Study and Intelligent Machines

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**Abstract** – This presentation gives a brief introduction to Evolving Connectionist Systems (ECOS) and their applications in Bioinformatics, Brain study and Intelligent Machines. These systems evolve their structure and functionality through learning from data in both on-line and off-line incremental mode, in a supervised or unsupervised mode, and facilitate data and knowledge integration, rule extraction and rule manipulation. The evolving processes of ECOS are defined by parameters, “genes” [1]. Both ECOS parameters and the input variables (features) for a particular problem are optimized through evolutionary computation techniques. ECOS extend further the classical knowledge-based neural networks [2]. In order to facilitate the development of practical applications of ECOS a general-purpose environment *NeuCom* has been developed (see [www.theneucom.com](http://www.theneucom.com)) that will be used for illustrations.

ECOS are applied to challenging problems in three major areas: (1) Bioinformatics - microarray gene expression analysis, gene regulatory networks (GRN), medical prognostic systems [1]; (2) Brain study – modeling visual and auditory perception [1]; (3) Intelligent machines: speech and image multimodal processing; autonomous robots; adaptive time series prediction.

Computational neurogenetic modeling [3,4] is pointed as a future direction in the development of ECOS.

**Keywords:** Adaptive, knowledge-based neural networks, Evolving connectionist systems, Neuroinformatics, Bioinformatics, Computational neurogenetic modeling, Autonomous robots.

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**Biodata:** Professor Nikola Kasabov is the Founding Director and the Chief Scientist of the Knowledge Engineering and Discovery Research Institute KEDRI Auckland ([www.kedri.info](http://www.kedri.info)). He holds a Chair of Knowledge Engineering at the School of Computer and Information Sciences at Auckland University of Technology. He is a Fellow of the Royal Society of New Zealand, Fellow of the New Zealand Computer Society and a Senior Member of IEEE. He holds MSc and PhD from the Technical University of Sofia, Bulgaria. His main research interests are in the areas of: intelligent information systems, soft computing, neuro-computing, bioinformatics, brain study, speech and image processing, novel methods for data mining and knowledge discovery. He has published more than 300 publications that include 15 books, 80 journal papers, 50 book chapters, 25 patents and numerous conference papers. He has extensive academic experience at various academic and research organisations: University of Essex, UK; University of Otago, New Zealand; University of Trento, Italy; Technical University of Sofia, Bulgaria; University of California at Berkeley; RIKEN Brain Science Institute, Tokyo; Delft University of Technology, and others. He is one of the founding board members of the Asia Pacific Neural Network Assembly (APNNA) and was its President in 1997/98. Kasabov is on the editorial boards of 7 international journals and has been on the Program Committees of more than 50 international conferences in the last 10 years. He chaired the series of ANNES conferences (1993-2001). More information of Prof. Kasabov can be found on the Web site: <http://www.kedri.info>. He can be contacted on: [nkasabov@aut.ac.nz](mailto:nkasabov@aut.ac.nz).

# Evolving Connectionist Systems Methods And Applications In Bioinformatics Brain Study And Intelligent Machines

**LL Leslie**

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