Pietro Terna

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https://terna.to.it

Pietro Terna (born in 1944) is a retired full professor of Economics of the University of Torino (Italy), former member of the Department of Economics, Sociology, Mathematics, and Statistics. He is an Honorary Fellow of the Fondazione Collegio Carlo Alberto.

His more recent works are in the fields (i) of artificial neural networks and economic and financial modeling and (ii) of social simulation with agent-based models, where he has been pioneering the use of Swarm.

He has been developing an original simulation system to reproduce enterprise and organization behavior, named java Enterprise Simulator, online at http://terna.to.it/jes and he is now developing a new Python based version both of Swarm and jES, named SLAPP (Swarm-Like Agent Protocol in Python), online at https://github.com/terna/SLAPP.

Quite recently, he has been teaching both a course of Econophysics for the Master degree of Physics of Complex System of the University of Torino and a course of agent-based simulations with network analysis for postgraduate students.

He is the author of papers in journals and collective volumes, published in Italy and abroad, co-author of a pioneer book on application of artificial neural networks in economics and finance and of a recent book on agent-based simulation applications.

The scientific production is mainly related to the following topics: applications of Monte Carlo analysis of estimators in econometrics; the quantitative analysis of economic phenomena; the quantitative methodology in economics. He devoted much of recent research, in addition to the theme of neural networks for the construction of agents capable of learning and choices, to the use of advanced simulation techniques for the construction of economic models.

Publications since 1991; for the previous ones, look at the Italian version of the CV:

https://terna.to.it/publications.html

Citations:

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