



Cournot Models: Dynamics, Uncertainty and Learning

Professor Ferenc Szidarovszky

Department of Systems and Industrial Engineering, University of Arizona, Tucson

Thursday 17 March, 2005 1-2:30pm
Room G3, Electrical Engineering Building, UNSW

Abstract: An overview is given on the recent developments in the theory of dynamic oligopolies including some new results. We will discuss the Cournot classical model and its extensions to product differentiation, multi-product models, price adjusting oligopolies, labour-managed and rent seeking games. The dynamic processes based on these models will be analysed. We will investigate models with and without full information, with partial cooperation among the firms, and under the assumption that the information about the production levels of the rivals has time delay. We will also introduce and discuss special learning procedures based on repeated price information.

Speaker: Ferenc Szidarovszky is a professor with the Department of Systems and Industrial Engineering at the University of Arizona, Tucson. He has his BS, MS and PhD degrees in Mathematics from the Eotvos University of Sciences, Budapest, Hungary. After graduation in 1968 he became a faculty member there. From 1977 until 1985 he was the head of the Department of Mathematics and Computer Science at the University of Horticulture and Food Industry in Budapest, and from 1985 he became a professor at the Karl Marx University of Economics, Budapest. He received his second PhD degree from the same university earlier, and the Hungarian Academy of Sciences awarded him with the degrees "Candidate in Mathematical Science" and later with "Doctor of Engineering Science". In 1987 he moved to the USA. He is the author or coauthor of over 180 journal publications and 10 books in addition to his earlier publications in Hungary. His research interests include dynamic systems especially in economic modeling, multiobjective programming, conflict resolution, game theory, and their applications in natural resources management.

This seminar program is hosted by the Centre for Energy and Environmental Markets at UNSW. Information about the Centre is available at www.ceem.unsw.edu.au

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