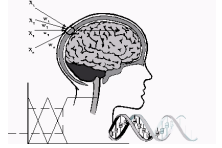




International

Innovation in Knowledge Based and Intelligent
Engineering Systems



INVITED SESSION SUMMARY

Title of Session:

Decision Making Theory for Economics

Name of Chair:

Prof. Dr. Takao Ohya - Kokushikan University, Japan

Co-chair: Dr. Takafumi Mizuno - Meijo University, Japan

Details of Session:

Economics has two academic fields. One is Micro Economics. The other is Macro Economics. Micro Economics means Consumer Behavior and Evaluation. Macro Economics means Economic Policy. The aim of this session is to present recent advances in Decision Making Theory for Micro and Macro Economics.

1) Decision Making Theory for Micro Economics: This session compares Dominant AHP/Concurrent Convergence Method (CCM), proposed by Kinoshita and Nakanishi, with AHP/Analytic Network Process (ANP), proposed by Saaty, and presents the calculation Methods the mathematical structure of the former in the process and an application of feasibility study. Ohya and Kinoshita focused on pairwise comparisons that appear in the evaluation process of the Dominant AHP and CCM, and proposed a superpairwise comparison matrix (SPCM) to express these pairwise comparisons as a single pairwise comparison matrix.

2) Decision Making Theory for Macro Economics: "Thetical Economy and Antithetical Economy in Macro Economics", which has been proposed by Kinoshita, we have two different, mutually exclusive economic phases to deal with. Viewing from the perspectives of OR, the two phases have their respective theorems. The theorem in the Thetical economy is Say's Law and the theorem in the antithetical economy is the principle of effective demand. The papers dealing with innovations in Decision Making Theory for Micro and Macro Economics are welcome.

Main Contributing Researchers / Research Centres (tentative, if known at this stage):**Website URL (if any):****Email & Contact Details:**

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