



**INTERNATIONAL**

## INVITED SESSION SUMMARY

**Title of Session:**

Decision Making Theory

**Name, Title and Affiliation of Chair:**

Prof.Eizo Kinoshita(Meijo University)

**Details of Session (including aim and scope):**

The Theory of Games is a conflict descriptive type model designed to minimize one' s loss.AHP(Analytic Hierarchy Process), on the other hand, is a conflict solving type model and offers a method to describe which element in the conflict is more critical.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.

For example,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.

These decision making theory are new mathematical paradigms for "Service Science" .For example,Sato proposed an application of feasibility study for Public Service using Dominant AHP.

**Main Contributing Researchers / Research Centres (tentative, if known at this stage):**

**Website URL of Call for Papers (if any):**

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