



International

*Innovation in Knowledge Based and Intelligent
Engineering Systems*



INVITED SESSION SUMMARY

Title of Session: Non-classical Logics and Intelligent Decision

Name of Chair: Tetsuya Murai

Organizers: T.Murai, Yotaro Nakayama, Seiki Akama

Details of Session:

In this session, we propose new techniques of intelligent decision from a point of view of non-classical logic. Although fuzzy-logic-based and modal logic based approaches has been well-known, there are many other logics classified into non-classical logics. We focus on, for example, paraconsistent logic, relevant logics, linear logic, bilattice logic, quantum logic and others. We make consideration and comparison of various non-classical-logic-based decision techniques including newly proposed logic-based ones in the session as well as other already proposed ones. Then we comprehensively investigate their strong and weak points in decision processes and thus we can clarify their positions in intelligent decision making procedures. This concludes the objective of our session.

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