

COMBINED GROUP PROJECT FOR MACHINE REASONING & REASONING SYSTEMS

MRS GROUP PROJECT

Hybrid Machine Reasoning System

Hybrid Machine Reasoning System [MTech Thru-Train Group Project]

- Form a project team of **2 - 5** members, appoint a team leader, enrol in LumiNUS project group.
- Identify a relevant business scenario/problem. Propose and create a hybrid reasoning system.
- The proposed project must develop, integrate, and demonstrate following **three** technique groups:
 - Business rule **OR** Business process based reasoning techniques [MR]
 - Business resource optimization techniques: Heuristic search **OR** Constraint satisfaction **OR** Evolutional computing [RS]
 - Knowledge Discovery **OR** Data Mining techniques [MR RS]
- The submitted runnable system should have a graphical user interface for end user to input or update data to execute different business scenarios, e.g. to enable initial planning and frequent re-planning/re-optimization. And to display system output results in a user friendly manner. (Input/output using xml file or console log is **not** considered as user friendly.)

☺ **Candidate Hybrid Airport Gate Assignment System (HAGAS); etc;**

HAGAS: http://ousar.lib.okayama-u.ac.jp/files/public/4/48534/20160528091554614463/K0004584_honbun.pdf

Agenda : Course Assessment & Grading

Group Project Evaluation

- In general, the project evaluation criteria is of below balanced scheme:
 - 15% Business Value (shown in report/market-research);
 - 20% Technological Sophistication/System Design (shown in report/documentation);
 - 30% System Implementation (run and use your system/user-guide);
 - 15% Presentation/Video;
 - 20% Value-Adds/peer-review/team-size/intuitive-user-interface/miscellaneous;

Past IS Group Project Examples

<https://github.com/IRS-MR>

<https://github.com/IRS-RS>

<https://github.com/IRS-CGS>

END OF LECTURE NOTES