

SENG 697: Agent-based Software Engineering

Suggested Laboratory Project List

- 1. Multi-agent system for collaborative software design**
Personal assistant agent (PAA) for each designer, quality control agent, scheduler agent, documentation agent, etc.
Including blackboard to communicate, etc.
- 2. Multi-agent system tutoring and learning**
PAA for Student, PAA for Teacher, Tutor agent, Office agent, Library agent, Accountant agent, etc.
- 3. Electronic secretary (Automated Office)**
PAA for user with interface agents to office machines, etc.
- 4. Multi-agent system for collaborative games**
PAA for each player, referee agent, etc.
- 5. Electronic syllabus system**
PAA for student, PAA for Teacher, Registrar Agent, scheduler Agent, etc.
- 6. Multi-agent system for electronic marketplace**
PAA for customer, dealer, manufacturer, delivery and banker, etc.
- 7. On-line examination assistant system**
Multi-agent system for an on-line examination system that allows registering for the exam, authentication, marking answer sheets and reporting.
- 8. Create task and domain ontology for a certain domain such as electronic commerce, software metrics, software development processes, etc.**
- 9. etc.**

Notes:

1. Projects are for 1-2 team members.
2. Please select your team mate(s) a project and email me of the project title you selected, your and your team mates' names and contact emails.
3. You are strongly urged to suggest your own projects. Projects other than those mentioned above will receive extra award marks.
4. The deliverables are:
 - System overall specification
 - Design documents for the agency (system architecture, explain why it is necessary to use each agent in your design.)
 - Design documents for each participating agent, their basic functions and/or services
 - Data and/or knowledge sharing specification
 - Communication specification (Using message sequence chart, etc.)