Good Afternoon, Colleagues

Are there any questions?
Good Afternoon, Colleagues

Are there any questions?

- Synthetic challenge paper "dated" = old?
- Offline skill learning - how?
- Hardware speedups: more on-line learning?
Logistics

- How did it go?
Logistics

• How did it go?

• Next soccer assignment: communication
Logistics

- How did it go?

- Next soccer assignment: communication
  - 1 more in C, then C++
Class Discussion

Aravind Gowrisankar on car-racing agents
Aravind Gowrisankar on car-racing agents
RoboCup Synthetic Agents Challenge

- Learning Challenge
- Teamwork Challenge
- Opponent Modeling Challenge
Learning Challenge

• early years – Offline individual, collaborative learning
Learning Challenge

• early years – Offline individual, collaborative learning

• then some online skill and collaborative team learning
Learning Challenge

- early years – Offline individual, collaborative learning
- then some online skill and collaborative team learning
- Open challenge – on-line adversarial learning
  - Especially during a single game
Teamwork Challenge

- early years – hard-wired positions
Teamwork Challenge

• early years – hard-wired positions

• now, more flexible teamwork
Teamwork Challenge

- early years – hard-wired positions

- now, more flexible teamwork
  - plan decomposition – roles, play modes
Teamwork Challenge

- early years – hard-wired positions

- now, more flexible teamwork
  - plan decomposition – roles, play modes
  - executing team plans – ISIS
Teamwork Challenge

- early years – hard-wired positions

- now, more flexible teamwork
  - plan decomposition – roles, play modes
  - executing team plans – ISIS
  - contingency planning – not so much
Opponent Modeling Challenge

- First: Build in models
Opponent Modeling Challenge

• First: Build in models

• Off-line review – statistical engines
Opponent Modeling Challenge

- First: Build in models
- Off-line review – statistical engines
- Open challenge:
  - On-line tracking (Andou)
  - On-line strategy recognition
Opponent Modeling Challenge

- First: Build in models

- Off-line review – statistical engines

- Open challenge:
  - On-line tracking (Andou)
  - On-line strategy recognition

- Recent years – coach
  - Omniscient view
  - Standard language
  - Coachable teams