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School of Electronics And Information Technology
Sun Yat-Sen University

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MARL [1]

[1] S. V. Albrecht, F. Christianos, and L. Schäfer, Multi-Agent Reinforcement Learning: Foundations and Modern Approaches. *MIT Press*, 2023.

Introduction of MARL

In a nutshell

Agents

MARL [1]

Assumptions about the agents' rewards:

- Fully cooperative (Warehouse Management)
- Competitive (Go)
- Mixed (Automated Trading)

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Type of solution concept the algorithm is designed:

- Minimax/Nash/Correlated equilibrium
- Pareto-optimality/social welfare/fairness
- No-regret
- etc.

[1] S. V. Albrecht, F. Christianos, and L. Schäfer, Multi-Agent Reinforcement Learning: Foundations and Modern Approaches. *MIT Press*, 2023.

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- Practicality

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Thanks for Listening!

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