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International Researcher IDs

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Publons / Web Of Science ResearcherID: ABA-3838-2020

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Research Areas

Artificial Intelligence, Computer Learning and Pattern Recognition

Academic Titles / Tasks

Research Assistant, Middle East Technical University, Faculty of Engineering, Department of Computer Engineering, 2015
- Continues

Published journal articles indexed by SCI, SSCI, and AHCI

- I. **Potential-based reward shaping using state–space segmentation for efficiency in reinforcement learning**
Bal M. İ., AYDIN H., İYİĞÜN C., POLAT F.
Future Generation Computer Systems, vol.157, pp.469-484, 2024 (SCI-Expanded)
- II. **Population-based exploration in reinforcement learning through repulsive reward shaping using eligibility traces**
Bal M. İ., İYİĞÜN C., POLAT F., AYDIN H.
Annals of Operations Research, vol.335, no.2, pp.689-725, 2024 (SCI-Expanded)
- III. **Using chains of bottleneck transitions to decompose and solve reinforcement learning tasks with hidden states**
Aydin H., Çilden E., Polat F.
Future Generation Computer Systems, vol.133, pp.153-168, 2022 (SCI-Expanded)

Refereed Congress / Symposium Publications in Proceedings

- I. **Compact Frequency Memory for Reinforcement Learning with Hidden States.**
Polat F., Aydin H., Cilden E.
PRIMA 2019: Principles and Practice of Multi-Agent Systems - 22nd International Conference, Taranto, Italy, 28 - 31 October 2019, pp.425-433
- II. **Using Transitional Bottlenecks to Improve Learning in Nearest Sequence Memory Algorithm**

AYDIN H., Cilden E., POLAT F.

IEEE 29th International Conference on Tools with Artificial Intelligence (ICTAI), Massachusetts, United States Of America, 6 - 08 November 2017, pp.147-152

III. Self-management of patients with severe arthritis through a Personal Health System: The Turkish case study in the PALANTE project

Aydın H., Gençtürk M., Alpay E., L. Ertürkmen G. B., Doğaç A.

eChallenges Conference, Belfast, United Kingdom, 29 - 30 October 2014, pp.1-7

Supported Projects

Karagöz P., Karaman A. C., İyigün C., Özcan E., Akar H., Kuzu Demir E. B., Polat F., TUBITAK Project, YÖK Program Ve Kontenjan Yönetim Sistemi YÖK PKYS, 2018 - 2020

Metrics

Publication: 6

Citation (WoS): 2

Citation (Scopus): 4

H-Index (WoS): 1

H-Index (Scopus): 1