Tristan Tomilin

PhD Candidate

A passionate AI researcher with a strong background in engineering. Driven to improve the state of the art in Reinforcement Learning focusing on simulation environments and Game AI.



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Eindhoven, The Netherlands

github.com/TTomilin

WORK EXPERIENCE

PhD Researcher

Technical University of Eindhoven

11/2021 - Present

Eindhoven, The Netherlands

Achievements/Tasks

- Created a 3D generalization benchmark with difficulty levels on top of the ViZDoom platform based on an FPS game with baseline evaluations using the Tianshou RL library
- Compared domain adaptation abilities of APPO between visual and environment entity modifications using the Sample-Factory **RL library**
- Worked on combining pixel-based offline RL with image transformers and data augmentation in continuous control environments from the DeepMind Control Suite
- Designed a continual RL benchmark on top of ViZDoom with baseline evaluations of popular CL methods

Developer / Machine Learning Engineer Awaves B.V.

04/2021 - 11/2021

Enschede, The Netherlands

Achievements/Tasks

Worked on creating a contextual music recommendation engine

Data Scientist

OpenML

02/2021 - 04/2021

Eindhoven, The Netherlands

Achievements/Tasks

- Refined the quality and integrity of existing datasets
- Discovered, preprocessed, and imported new datasets to the OpenML machine learning platform

EDUCATION

PhD in Deep Reinforcement Learning

Eindhoven University of Technology

11/2021 - Present

MSc in Data Science in Engineering Eindhoven University of Technology

09/2019 - 08/2021

GPA: 8.12/10.00

• GViZDoom: A Benchmark for Generalization of FPS Games in Deep Reinforcement Learning (Grade: 9/10)

BSc in Information Technology, Informatics Tallinn University of Technology

09/2013 - 06/2016

GPA: 4.45/5.00

Thesis

• Digital Identity usage notification platform (Grade: 5/5)

SKILLS



PUBLICATIONS

Tomilin, T., Dai, T., Fang, M. and Pechenizkiy, M., 2022, August. LevDoom: A Benchmark for Level Generalization Difficulty on in Reinforcement 2022 Learning. In IEEE Conference on Games (CoG) (pp. 72-79).

LANGUAGES

Estonian

Native or Bilingual Proficiency

Enalish

Native or Bilingual Proficiency

Dutch

Professional Working Proficiency

Russian

Elementary Proficiency

German

Elementary Proficiency

RESEARCH INTERESTS

