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TIANYI LI

RESEARCH INTERESTS

Computational Neuroscience | Vision | Robotics

EDUCATION

MSc in Computational Intelligence | University of Sheffield | UK | 2013-2014 | First honors Degree

Courses: Machine learning, Speech processing, Speech technology, Computational neuroscience, Adaptive Intelligence, Modeling and simulation natural system, Computational vision and the method in computational intelligence.

Dissertation Title: Distributed cooperative multi-agent reinforcement learning using SARAH based neural networks

B.S. in Software Engineering | The University of south China | CHINA | 2007-2011

Courses: Software engineering, data structures and algorithm, object-oriented programming, advanced mathematics, linear algebra, probability and statistics, discrete mathematics, Web programming, Java, C, C++, Database Theory, etc.

Dissertation Title: The optimization of TF-IDF algorithm applied on search engine

RESEARCH EXPERIENCE

- Distributed Cooperative multi-agent reinforcement learning using SARAH based neural networks | Dr. Eleni Vasilaki (e.vasilaki@sheffield.ac.uk)
- The optimization of Unsupervised Competitive learning using Hebbian learning rules | Dr. Eleni Vasilaki (e.vasilaki@sheffield.ac.uk)
- The navigation of robot to find home in the simulation environment with reinforcement learning | Dr. Eleni Vasilaki (e.vasilaki@sheffield.ac.uk)
- Human face recognition based on SIFT and SVM compared with Naïve Bayes and K-nearest neighbor | Prof. Ling Shao (ling.shao@ieee.org)
- Isolated digit speech recognition based on HMM, GMMs and Deep neural networks | Prof. Thomas Hain (th@dcs.shef.ac.uk)
- Agent-based modeling of building evacuation procedure in case of a fire emergency | Dr. Paul Watton (P.Watton@sheffield.ac.uk)
- Human formant decoder and vocoder based on FFT | Prof. Roger K Moore (r.k.moore@sheffield.ac.uk)

WORKING EXPERIENCE

Data Mining Engineer in Wanda E-commerce | 2014- Current

1. Build user profile System based on massive data from E-commerce platform and off-line from shopping mall | Wanda E-commerce
2. Knowledge of graph on the domain of E-commerce | Wanda E-commerce
3. Sale prediction of store using linear regression model and unsupervised learning to cluster stores | Wanda E-commerce

Software Engineer in Zhongchuang software Ltd. | 2012-2013

1. Develop mail system with C++ language
2. Develop remote big files transfer service with c++ language

Internet research engineer | TalkWeb information Ltd. | 2010-2012

1. Java Development in E-commerce

EXTRACURRICULAR ACTIVITIES

Joined the SARA 2.0 Robot team and won the 1st prize of the Robot competition of University of Sheffield | 10/2013-06/2014

Joined the ACM-ICPC team of our university and won the 3rd prize in province level, 2nd prize in University level. | 06/2009-05/2011

Been selected to the Software Practice Class and in charge of the whole process of software project | 09/2009-05/2011

SKILLS AND LANGUAGES

Professional Skills: Matlab | Python | C++ | Data structure algorithms | Java | Kafka | Hadoop | Sqoop | Mahout | HBase | ORACLE database | MySQL database | distributed computation programming
Language: English (fluent), Chinese (native).

AWARDS, HONORS AND SCHOLARSHIPS

The First prize in the Robot Team Competition of University of Sheffield | 05/2014

The Second Prize in ACM Programming Design Competition of University of South China | 05/2010

The Third Prize in ACM Programming Design Competition of Hunan Province | 10/2009

REFERERES