

LIN, YI

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EDUCATIONAL BACKGROUND

Shanghai University (SHU)

Shanghai, China

Master of Engineering (Expected in 06/2023)

09/2020–Present

Major: Software Engineering; **Overall GPA:** 87.31/100

Central China Normal University (CCNU)

Wuhan, China

Bachelor of Engineering

09/2016–06/2020

Major: Computer Science and Technology; **Overall GPA:** 88.03/100; **Ranking:** 11/119

PUBLICATION

LIN Yi, YU Hang, XU Changhua, LUO Xiangfeng, and TIAN Pinzhuo, *Incremental Event Detection via an Improved Knowledge Distillation Based Method*.

- Submitted to *Neurocomputing* on September 20th 2022 for reviewing.
- *Neurocomputing* IF: 5.779, SCI Q3, China Computer Federation (CCF) CSSCI, Chinese Academy of Sciences (CAS) Q2.

RESEARCH AND PROJECTS

Laboratory Project: Intelligent Censorship Platform for Financial Fraudulence and Violation 03/2022–Present

- Worked for banks and detected abnormal transactions, such as fake registration of credit cards, gambling, merchant violation, etc. based on GCN model, with considerable quantities of self-generated graph-structured transaction data.
- Summarized and stylized entities' attributes, relationships, and transaction characteristics of each abnormal scenario from the obtained material due to the lack of transaction statistics for privacy concerns. Built data generation rules feasible and suitable for real scenarios.
- Responsible for generating card, user kinship, standard transaction data according to kinship, and abnormal transaction data for fake registration of credit cards and merchant violation scenarios. Implemented coding in Python on PyCharm. Used Navicat to operate the generated data in a MySQL database for model training.

An Improved Knowledge Distillation Based Model for Incremental Event Detection 12/2021–07/2022
Researcher, under supervision of Prof. YU Hang (Shanghai University)

- Conducted the first research considering the specificity of incremental event detection (IED) task caused by non-trigger class. Proposed a more realistic IED model that incrementally learns new event types without catastrophically forgetting the formerly learned classes and being re-trained.
- Addressed the None-Old class label confusion problem and improved model predictions' accuracy on old classes by proposing a pseudo labels generation module and replacing hard labels with pseudo labels to train the model. Solved the None-New class label confusion problem and enhanced model predictions' accuracy on new classes by introducing a distillation loss modification module.
- Optimized the IED model on both MAVEN and ACE data sets and in both single-class-per-step and multi-class-per-step incremental learning settings.

Web System for Vehicle Sales Management and Forecast

12/2019

- Developed a vehicle and user data management system using the Spring Boot framework. Made simple

forecasts for car sales quantity.

- Responsible for defining the functions and details of the Car Data Management and User Management Modules and operating the front and back ends of deleting and updating car and user data.
- Engaged in drawing Gantt charts, devising database tables and E-R diagrams, Java coding, debugging and optimizing system details, presenting forecasting results in E-chart diagrams, writing part of the documentation such as demand analysis, and illustrating some UML diagrams.

Automatic Question Answering System Based on Medical Knowledge Graphs 03/2020–05/2020 (Capstone Project)

- Utilized Neo4j Graph Database to store knowledge graph, including entities, their attributes, and relationships.
- Realized the named entity recognition in question classification step based on the Bi-LSTM neural network model with PyTorch framework.
- Automatically generated answers according to medical knowledge graph following the steps of question classification, Cypher query statement generation, graph database querying, and answer patterns matching.

AWARDS AND HONORS

Contest Prizes

2 nd Prize in English Competition, School of Computer, CCNU	12/2018
2 nd Prize of Lanqiao Cup Professional Software and IT Talents Competition in Hubei Province (College Group B of C/C++ Program Design)	05/2018
2 nd Prize in English Competition, School of Computer, CCNU	12/2017

Scholarships

SHU 3 rd Prize of Academic Scholarship, 2020–2021 academic year	09/2021
SHU 2 nd Prize of Academic Scholarship, 2019–2020 academic year	09/2020
CCNU Boya Danguai Scholarship	10/2018
CCNU Overseas Exchange Scholarship	10/2018
CCNU Boya Danguai Scholarship	10/2017

Honors

CCNU Outstanding Graduate Honor	05/2020
CCNU Learning Activist Honor	10/2019
CCNU Merit Student Honor	10/2018
CCNU Merit Student Honor	10/2017

PROFESSIONAL SKILLS

Proficient: Python, PyTorch, C/C++, Java

Intermediate: SQL, HTML, CSS, JavaScript