NGUYEN NGOC KHANH

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EDUCATION

BEng Nanyang Technological University, Computer Science   May 2021
- Elective Tracks: High-Performance Computing, Artificial Intelligence
- Highest Distinction: Advanced Topics in Algorithms, Compiler Techniques

SCHOLARSHIPS AND AWARDS

List relevant awards, scholarships, grants and academic distinctions in reverse chronological order. Include a short description if necessary.

Title of award   200X
Brief description

Title of Fellowship   200X
Brief description

Title of grant   200X
Brief description

RESEARCH EXPERIENCE

Data Science Intern, Shopee Private Limited, Singapore   Apr 2021 to Present
Anti-Fraud Team, Data Science Department
Reporting Manager: Dong Huang
- Reviewed Literature in Named-Entity Recognition (NER)
- Implemented LSTM CRF model for NER task on address data
- Conduct experiment on address data and surpassed the baseline model (CRF) in f1 score performance on test data (0.92 to 0.98).

Research Assistant, Nanyang Technological University, Singapore   Dec 2020 to Mar 2021
Singtel Cognitive and Artificial Intelligence Lab
Multi-Agent Path Finding
Advisor: Assoc Prof Tang Xueyan
- Reviewed Literature in Multi-Agent Path Finding (MAPF) and Multi-Travelling Salesman Problem (MTSP).
- Designed and Proved a reduction from the real-world instance to a multi-objective MTSP (mMTSP) instance
- Designed and Implemented a relaxed optimization algorithm for MTSP inspired by Spectral Clustering.
- Improved the solution by designing and implementing a new local search method for multi-objective optimization.
- Designed and implemented a conflict-based search algorithm to extract mMSTP solution for real-world requirements.
- Prepared specification documents for the work.

Final Year Project, Nanyang Technological University, Singapore   Feb 2020 to Oct 2020
Cluster Analysis on Dynamic Graphs
Supervisor: Asst Prof Ke Yipping, Kelly

- Reviewed Literature in Graph Partitioning, Graph Embedding and Graph Neural Network
- Extended and Analysed Gibbs sampling algorithm on Distance-dependent Chinese Restaurant Process (ddCRP) for Graph Clustering Problem
- Conducted intensive experiment for benchmark the performance on power-law cluster size synthesis graphs and real dynamic graphs.
- Surpassed the baseline method of 14.1% in modularity for power-law cluster size synthesis graphs.
- Prepared specification documents for the work (thesis).

TEACHING EXPERIENCE

Name of University, Location   May 200X to Aug 200X
Associate Professor, Department
- Taught Name of course, an undergraduate course averaging 120 students per semester, covering the following topics: topic, topic, topic, topic
- Developed tests, exams and homework
- Revised the syllabus to meet accreditation standards
- Coordinated grading and labs with a team of four teaching assistants

Doctoral students advised
Name, "Dissertation title", Date graduated
Name, "Dissertation title", Date graduated
Name, "Dissertation title", Date graduated

Masters students advised
Name, "Dissertation title", Date graduated
Name, "Dissertation title", Date graduated
Name, "Dissertation title", Date graduated

Name of University, Location   May 200X to Aug 200X
Teaching assistant, Department
- Highlight important projects, duties, skills and responsibilities following a consistent grammatical style

PUBLICATIONS

List your publications in reverse chronological order. Use an acceptable reference format commonly used in your field. Group your publications into different categories if you have a sufficient number to do so.

Books

Surname, F.M., Book title, Location: Publisher, 2008.

Journal publications

Surname, F.M., Surname, F.M. and Surname, F.M., "Article title", Journal name, vol. 1, no. 3, 2008, pp. 503-509.

Surname, F.M., Surname, F.M. and Surname, F.M., "Article title", Journal name, vol. 1, no. 3, 2008, pp. 503-509.

Journal papers accepted

Surname, F.M., Surname, F.M. and Surname, F.M., "Article Title", To be published in: Journal name.

Surname, F.M., Surname, F.M. and Surname, F.M., "Article Title", To be published in: Journal name.

Journal papers in Review

Surname, F.M., Surname, F.M. and Surname, F.M., "Article Title", Submitted to: Name of journal.

Surname, F.M., Surname, F.M. and Surname, F.M., "Article Title", Submitted to: Name of journal.

Conference papers

(Peer-reviewed)
Surname, F.M. and Surname, F.M., "Article Title", Proceedings of Conference name, Nov. 17-18 2008, PAPERID-000000, pp. 503-509.

Surname, F.M. and Surname, F.M., "Article Title", Proceedings of Conference name, Nov. 17-18 2008, PAPERID-000000, pp. 503-509.

(Abstract-reviewed)
Surname, F.M. and Surname, F.M., "Article Title", Proceedings of Conference name, Nov. 17-18 2008, PAPERID-000000, pp. 503-509.

Surname, F.M. and Surname, F.M., "Article Title", Proceedings of Conference name, Nov. 17-18 2008, PAPERID-000000, pp. 503-509.

Conference papers in review

Surname, F.M. and Surname, F.M., "Article Title", Proceedings of Conference name, Nov. 17-18 2008, PAPERID-000000, pp. 503-509.

Surname, F.M. and Surname, F.M., "Article Title", Proceedings of Conference name, Nov. 17-18 2008, PAPERID-000000, pp. 503-509.

PATENTS

InventorSurname, F.M., InventorSurname, F.M., "Title of Invention", Unites States Patent, No. 0000000.

InventorSurname, F.M., InventorSurname, F.M., "Title of Invention", Unites States Patent, No. 0000000.

PRESENTATIONS AND INVITED LECTURES

Paper presentation, "Title of Paper", Name of conference, Date.

Keynote address, "Title of presentation", Name of conference, Date.

Workshop, "Title of presentation", Name of workshop, Date.

PROFESSIONAL TRAINING

Seminar or Workshop
Name of Institution, Location, Date
Description: Include a brief description, if necessary.

ABC certification, Name of organisation], Date
Description: Include a brief description, if necessary.

Company/Organisation, [Position], [Department], Dates
- Skill/Accomplishment/Award/Certification
- Skill/Accomplishment/Award/Certification

PROFESSIONAL AFFILIATIONS

Name of organisation, 200X-present
Description of role or responsibilities, if applicable.

Name of organisation, 200X-present
Description of role or responsibilities, if applicable.

PROFESSIONAL SERVICE

Conference Co-organiser
Name of conference, Year

Peer-reviewed articles for:
- Name of journal
- Name of journal

COMMUNITY SERVICE

Organisation
[Title/Position/Duty], [Location], Dates

Organisation
[Title/Position/Duty], [Location], Dates

LANGUAGES
English: Advanced language

Vietnamese: Native language

COMPUTER SKILLS
Programming: Python, Go, C++, MATLAB.

Applications: CLI Applications, JetBrains IDEs, MATLAB IDE.

Platforms: Linux/Unix, HDFS Spark.

OTHER

Interests/Hobbies: Code, Write, Play (multi-player games).
Citizenship: Vietnamese

REFERENCES

Dr Albert Jones, [Title]
[Department name]
[University name]
[Postal address]
Phone: [phone number]
Email: [email address]

Dr Anne Smith, [Title]
[Department name]
[Company name]
[Postal address]
Phone: [phone number]
Email: [email address]