FALIH GOZI FEBRINANTO

Webpage: https://falih.io/ Brown Hill, VIC 3350
Email: f.falih@outlook.com Last Update: 15 June 2023

EDUCATION

- **PhD:** Information Technology, Federation University Australia, Australia, August 2021 – Present, **Anticipated Graduation: February 2025**, Research Title: "*Efficient Graph Learning for Anomaly Detection*", Advisors: Professor Feng Xia, Dr. Kristen Moore, Dr. Chandra Thapa, Dr. Jiangang Ma, Dr. Vidya Saikrishna, **Receiving CSIRO's Data61 PhD Scholarship**
- **M.Tech:** Information Technology (Enterprise Systems and Business Analytics), Federation University Australia, Australia, July 2019 – August 2021, Master Project: "*Predicting Energy Consumption Using Deep Learning Approach*", GPA: **6.93/7.00**
- **B.Cs:** Computer Science, University of Brawijaya, Indonesia, September 2014 – August 2018, Undergraduate Thesis: "*The Implementation of K-Means Algorithm as The Image Segmentation Method for Citrus Leaf Disease*", **GPA: 3.74/4.0,** Graduated with Cumlaude (highest honors of academic result in Indonesia) status-based

PUBLICATIONS

Journal Publications

1. **Febrinanto, F. G.**, Xia, F., Moore, K., Thapa, C., & Aggarwal, C. (2023). Graph lifelong learning: A survey. IEEE Computational Intelligence Magazine, 18(1), 32-51.
2. Yu, S., Xia, F., Wang, Y., Li, S., **Febrinanto, F. G.**, & Chetty, M. (2022). PANDORA: Deep Graph Learning Based COVID-19 Infection Risk Level Forecasting. IEEE Transactions on Computational Social Systems.
3. Wang, L., Yu, S., **Febrinanto, F. G.**, Alqahtani, F., & El-Tobely, T. E. (2022). Fairness-Aware Predictive Graph Learning in Social Networks. Mathematics, 10(15), 2696.

Conference Papers

1. **Febrinanto, F. G.** (2023). Efficient Graph Learning for Anomaly Detection Systems. In Proceedings of the Sixteenth ACM International Conference on Web Search and Data Mining (pp. 1222-1223).
2. Zhang, C., **Febrinanto, F.**, Liu, M., Kong, X., Zhang, D., & Islam, S. M. (2022). Attractiveness based conference ranking. In Proceedings of the 37th ACM/SIGAPP Symposium on Applied Computing (pp. 803-806).
3. Hou, M., Ren, J., **Febrinanto, F.**, Shehzad, A., & Xia, F. (2021). Cross network representation matching with outliers. In 2021 International Conference on Data Mining Workshops (ICDMW) (pp. 951-958). IEEE.
4. Feng, Z., Hou, M., Liu, H., Liu, M., Kaur, A., **Febrinanto, F. G.**, & Zhao, W. (2021). SmartColor: Automatic Web Color Scheme Generation Based on Deep Learning. In 2021

12th International Conference on Information and Communication Systems (ICICS) (pp. 285-290). IEEE.

5. **Febrinanto, F. G.**, & Nisviasari, R. (2021). The implementation of Blockchain framework in MOOCs to support a freedom of learning in Indonesia. In Journal of Physics: Conference Series (Vol. 1836, No. 1, p. 012043). IOP Publishing.
6. **Febrinanto, F. G.**, Dewi, C., & Triwiratno, A. (2019). The implementation of k-means algorithm as image segmenting method in identifying the citrus leaves disease. In IOP Conference Series: Earth and Environmental Science (Vol. 243, No. 1, p. 012024). IOP Publishing.

POSITIONS

- **Sessional Academic**, Federation University Australia, Ballarat, Australia
  Teaching, coordinating, tutoring, and marking IT courses for bachelor and master students.
  October 2021 – Present
- **Research Scholar**, CSIRO's Data61, Melbourne, Australia
  Working closely to conduct research supervised by Data61 scientists during the PhD candidature as the scholarship holder.
  February 2022 - Present
- **Data Scientist, Internship**, AI Australia, Melbourne, Australia
  Implemented an image analysis framework using Microsoft Computer Vision API, performed visual feature recognition, and conducted a project to identify the sentiment of face, e.g., smiling, neutral, or sad, using Python programming.
  August 2020 – December 2020
- **Research Assistant**, Citrus and Subtropical Fruits Research Institute (ICSFRI), Batu, Indonesia
  Conducted research on image processing to solve researcher's problem in the agricultural sector, led a team of 3 people to manage, operate and support the data analysis process, wrote a paper, and published it at a conference.
  July 2017 – June 2018
- **Laboratory Tutor**, University of Brawijaya, Malang, Indonesia
  Taught around 300 bachelor students related to the computer science courses for lab sessions and gave marking on students' assignments and exams.

TEACHING EXPERIENCE

- System Modelling, Federation University Australia, Course Coordinator and Lecturer
- Foundations of Programming, Federation University Australia, Lab Instructor
- Agile Coding, Federation University Australia, Lab Instructor
- Basic Programming, University of Brawijaya, Lab Instructor
- Data Structures and Algorithms, University of Brawijaya, Lab Instructor
- Advanced Programming, University of Brawijaya, Lab Instructor

PRESENTATIONS

- **Paper Presentation**, "Efficient Graph Learning for Anomaly Detection Systems", WSDM 2023, Singapore, 3rd March 2023
- **Presenter**, "Deep Spatial-temporal Graph Modeling", Data61 Student Meeting (Victoria Chapter), Melbourne, Australia, 9th October 2022
- **Presenter**, "Graph Learning for Multivariate Time Series Anomaly Detection", Data61 Student Meeting (Victoria Chapter), Melbourne, Australia, 8th April 2022
- **Paper Presentation**, "The Implementation of Blockchain Framework in MOOCs to Support a Freedom of Learning in Indonesia", Journal of Physics: Conference Series, Jember, Indonesia, 23rd August 2020
- **Paper Presentation**, "The Implementation of K-means Algorithm as Image Segmenting Method in Identifying the Citrus Leaves Disease", IOP Conference Series: Earth and Environmental Science, Jember, Indonesia, 8th July 2018

TECHNICAL SKILLS

- **Programming Languages/Tools**: Python, Java, Matlab
- **Web Languages/Tools:** HTML, PHP, JavaScript, CSS
- **Typesetting Tools:** Latex, Microsoft Office
- **Version Control System:** Git
- **Operating System:** Microsoft Windows, Ubuntu Linux
- **Deep learning libraries/Frameworks:** PyTorch, PyTorch Geometric, Deep Graph Library

MEMBERSHIPS

- ACM (Association for Computing Machinery) Student Member
- ACM SIGIR Member

LICENSES AND CERTIFICATIONS

- Azure AI Fundamentals, Microsoft.
- Problem Solving (Intermediate) Certificate, HackerRank.
- Problem Solving (Basic) Certificate, HackerRank.
- Python (Basic) Certificate, HackerRank.
- Java (Basic) Certificate, HackerRank.
- Professional competency training and assessment titled "Microsoft Desktop Application" with an excellent status, Microsoft.

SERVICE

Program Committee Member

- The First Workshop on Graph Learning, A workshop of The ACM Web Conference, 25th April 2022, Online, http://www.graphlearning.net/

***Peer-Reviewed Articles for**:*

- EEE Transactions on Neural Networks and Learning Systems (TNNLS), 2023
- The First Workshop on Graph Learning, TheWebConf, 2022
- ACM Transactions on the Web (TWEB), 2022
- IEEE International Conference on Cognitive Machine Intelligence (CogMI), 2021

LANGUAGES

- **English**: Professional working proficiency, 7.0 on IELTS Academic
- **Indonesian**: Native proficiency

REFERENCES

Available upon request.