FITRIA WULANDARI

PhD Researcher | Al, Interpretability Model, & Optimization

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EXPERIENCE

PhD Researcher

University of Galway | Science Foundation Ireland Centre for Research Training in Artificial Intelligence (SFI CRT-AI)

- October 2021 Ongoing
- Galway, Ireland
- Synthetic data for global interpretable regression modelling from limited data in interpolation by using knowledge distillation to train one model to another while improving or maintaining the accuracy by training on synthetic data and for later use in extrapolation (submitted to LOD Conference 2023: link)

Research Assistant

Kyungpook National University | Evolutionary Computation and Intelligent Systems (ECIS) Lab

- February 2018 March 2020
- Daegu, South Korea
- Green House Layout Optimization for Robot Navigation and Hierarchical Approach Based Evolutionary Algorithm For Many-Objective Optimization (paper link)
- Multi-objective next release optimization problem (MONRP) for the trade-off between three objectives for the future release of a software system. The optimization framework helps to find the best features to meet customer needs and commercial profit for the software industry. (thesis link and slides link)

PUBLICATIONS

Journal Articles

- A. Fajar, R. Trialih, and F. W. Ramlan, "A decentralized file storage for effective e-government," Indonesia Post-Pandemic Outlook: Environment and Technology Role for Indonesia Development, p. 279, 2022.
- D. D. Uyeh, F. W. Ramlan, R. Mallipeddi, et al., "Evolutionary greenhouse layout optimization for rapid and safe robot navigation," IEEE Access, vol. 7, pp. 88 472 - 88 480, 2019.

Conference Proceedings

- F. W. Ramlan, V. Palakonda, and R. Mallipeddi, "Differential evolutionary (de) based interactive recoloring based on yuv based edge detection for interior design," in 2019 International Conference on Information and Communication Technology Convergence (ICTC), IEEE, 2019, pp. 597-601.
- F. W. Ramlan, V. Palakonda, Mallipedi R., "Hierarchical Approach Based Evolutionary Algorithm For Many-Objective Optimization," in 2019 International Conference on Artificial Intelligence and Soft Computing (ICAISC), vol.7, 2019, pp. 7-12. (paper link)

EDUCATION

Ph.D. Artificial Intelligence **University of Galway**

Research: Hybrid Evolutionary and Neural Program Synthesis for Artificial Intelligence

M.Sc. Electronics Engineering Kyungpook National University | GPA 3.88/4.30

i Feb 2018 - Feb 2020 ♥ South Korea

Thesis: Evolutionary Multi/Many-objective Approaches for Next Release Optimization Problem

B.Sc. Informatics Engineering University Harapan Medan | GPA 3.49/4.00

■ Sep 2010 - Jul 2014 **■** Indonesia

Project: Development of a Web-Based Project Management Platform using Waterfall Technique

SKILLS

Pvthon Sklearn **Genetic Programming** Statistical Analysis Regression C++Single & Multi-objective Optimization

LANGUAGES

English

Indonesian



AWARDS

- SFI CRT-AI | Oct 2021 Ongoing (Support funding during a PhD program)
- National Research Foundation South Korea | 2018 - 2020
- KNU International Scholarships (KINGS) | 2018 - 2020
- Brain Korea 21 (BK21) | 2018 2020

REFERENCE

Available Upon Request