

Introduction of New PhD Candidate

RAMS Group Meeting: 02.03.2023

About me



Andrie Pasca Hendradewa

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Assistant Professor at Department of Industrial Engineering

Universitas Islam Indonesia (UII)



PhD Candidate at Dept. of Mechanical and Industrial Engineering Norwegian University of Science and Technology (NTNU)

Education



Bachelor Degree Telkom University



Master Degree Institut Teknologi Bandung

Department of Industrial Engineering

Thesis topic:

Information System Design of E-Commerce

Department of Industrial Engineering

Thesis topic:

Usability Engineering / Human Computer Interaction

Working experience

- UI/UX Designer for:
 - Mobile apps
 → Adobe Flash, Photoshop
 - Wordpress theme → Photoshop, HTML, CSS, Javascript
- Assistant Professor, with subject taught:
 - Programming Logic → flowchart, pseudocode, Python
 - Stochastic Model → bellman equation, markov chain, game theory
 - Data Mining
 → AHP & ANP, data mining
 - Computer Simulation → queuing theory, monte-carlo simulation
 - Business Intelligence → OLAP, query, data visualization
- Seasonal Instructor, every 2nd semester break:
 - Python Programming → basic command and structure in Python
 - Big Data & Analytics → fundamental knowledge, image & text analysis
 - Al for Junior Developer → ANN, Deep Learning with Tensorflow

Previous research

- Designing Health Recommender System based on Patient Medical Records Database using Big Data Analytics Framework
- Early Warning System for Driver's Drowsiness Based on Facial Expression
- Schedule Risk Analysis by Different Phases of Construction Project Using CPM-PERT and Monte-Carlo Simulation
- Social Network Analysis and Topic Modeling of Twitter User Interaction Related to Indonesia E-Commerce Marketing Strategies
- Cognitive Workload Evaluation in Visual-Auditory Navigation System Through EEG Measurement Driving Performance Using Driving Simulator
- Risk Analysis on the Growth Rate of Covid-19 Cases in Indonesia Using Statistical Distribution Model
- Expert System for Selecting Product Packaging Materials as a Means to Achieve Sustainable Development Goals.

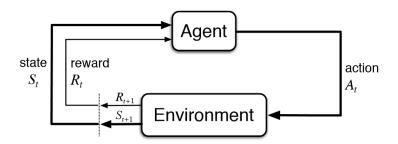


PhD research project

Reinforcement Learning (RL) to Improve Maintenance Strategy

Goal:

Optimizing maintenance activity by minimizing the carbon emission /energy



https://towardsdatascience.com/reinforcement-learning-101-e24b50e1d292



Thank you.

