MUHAMMAD REZA FAHLEVI

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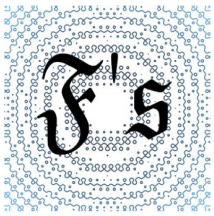
https://www.fahlevisia.com/mrfahlevi/



EDUCATION

Universitas Sumatera Utara (Medan, Sumatera Utara) *Aug 2018 - 2022*

- Bachelor of Computer Science (Sarjana Komputer — **S.Kom.**)
- GPA (IPK): 3.56 / 4.00 (3,56 / 4,00)
- *Department of Computer Science*, Faculty of Computer Science and Information Technology.
- Concerntration: Evolutionary Computation | Heuristic Method | Numerical Analysis
- Favorite classes : Design & Analysis of Algorithms | Artificial Intelligence & Intelligence System | Heuristic Method | Probability and Statistics | Numerical Analysis | Image Processing | Modeling Technique and Simulation | Calculus | Discrete Mathematics | Automata — Grammar and Language

RESEARCH

Paper

- Finding Heuristical Value of Z, T, Chi Square, and F Based On Dynamic Significance Level.

Published

- Muhammad Reza Fahlevi, & Budiman, M. A. (2021). Computing the Value of Pi in the Manner of Lambda Function with R Statistical Programming Language. Data Science: Journal of Computing and Applied Informatics, 5(1), 39-48. https://doi.org/10.32734/jocai.v5.i1-5556

Non Peer-Reviewed

- Fahlevi, M.R. (2024) "The Description of Every Constructors, Functions Member, and Functions of Limav". Available: https://www.fahlevisia.com/paper/2024/fsr3/
- Fahlevi, M.R. (2024) "Limav: Computation of Vectors and Matrix in Linear Algebra." Available: https://www.fahlevisia.com/paper/2024/fsr2/
- Fahlevi, M.R. (2024) "Linav: Computation of Vectors in Linear Algebra." Available: https://www.fahlevisia.com/paper/2024/fsr1/

WORK EXPERIENCE

Badan Pusat Statistik Kab. Kampar - Software Developer Intern *Jul - Aug 2021*

- *Build a software for Desa Cinta Statistik Desa Laboy Jaya using R Shiny framework*

PROJECTS

ShinyImageProcessing: An image processing app simulation contain bluring, RGB filtering, Median filtering, 3×3 kernel convolution, generate 3 type of noise in images, and edge detection, ShinyImageProcessing is created by using framework for creating web application using R code, shiny.

RCGA: A real-coded genetic algorithm for solving real-parameter optimization problem for function in R^3, written in R and Python.

ilkom: R packages to find critical value of statistics z, t, $\chi 2$, and f for dynamic significance level by using heuristics procedure based on binary search, bisection method, and tabu search.

VNS: Minimizing error sum of square (SSE) of multi-linear regression model using Variable Neighborhood Search for continuous optimization problem.

TSP: Solving Travelling Salesman Problem (TSP) by using Simulated Annealing (SA) and Tabu Search (TS) algorithm.

limav.h: A C++ header as an extension std::vector for computation of vectors and matrix.

TECHNICAL SKILLS AND INTEREST

Languages	R | Python | Julia | C++ |LaTeX | MySQL | Javascript | HTML and CSS | Bootstrap | Java | PHP
Software & Tools	LyX High Level LaTeX Frontend | RStudio |Visual Studio Code | VIM | R shiny | dplyr | ggplot2 | plotly | pandas | Jupyter |
Current Interest	(Meta) Heuristic Method | Numerical Analysis | Probability & Statistics | Pattern Recognition and Machine Learning | Design & Analysis Algorithm
Awards	Participant in Province Science Olympiad for Chemistry, year 2017 | Participant in Province English Debate Competition |