

MUHAMMAD REZA FAHLEVI

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EDUCATION

- Universitas Sumatera Utara (Medan, Sumatera Utara)** *Aug 2018 - 2022*
- Bachelor of Computer Science (Sarjana Ilmu Komputer — S.Kom.)
 - GPA (IPK): 3.56 / 4.00 (3,56 / 4,00)
 - 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

- 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>

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 blurring, 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, χ^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.

linav.h: A C++ header as an extension std::vector for computation of vectors in linear algebra.

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