



Personal Info

Name : Achmad Efendi, S.Si, M.Sc, Ph.D
 Functional position : Assistant Professor
 Structural position : Head of Undergraduate Statistics Study Program
 NIP/NIK : 19810219 200501 1 001
 NIDN : 00919028101
 E-mail : a_efendi@ub.ac.id
 Course taught : 1. Introduction to Regression Analysis
 2. Advanced Regression Analysis
 3. Categorical Data Analysis
 4. Advanced Categorical Data Analysis
 5. Computational Statistics
 6. Advanced Computational Statistics
 7. Optimization Technique

Education Background

Program	S1	S2	S3
University	Institut Teknologi Sepuluh Nopember (ITS), Surabaya	Universiteit Hasselt (U Hasselt), Belgium	Katholieke Universiteit Leuven (KU Leuven), Belgium
Department	Statistics	Biostatistics	Biostatistics
Year of entry-graduation	2000-2004	2007-2009	2009-2013
Title of final project/thesis/dissertation	Equity Analysis and Brand Transfer and Consumer Satisfaction of Powder Detergent Products in East Surabaya	Analysis of Combination Experiments	Estimation Methodology and Model Verification for Hierarchical and Overdispersed Time-to-event Outcomes
Supervisor/Promotor	Ir. Arie Kismanto, M.S.	Dr. Priseley Assam Nkoubert	Prof. Geert Verbeke and Prof. Geert Molenberghs



Research Project

1. Logistic Regression Ensemble Model for Accuracy and Forecasting of Bank Customer Credit Status (2019)
2. Parameter Estimation of Multinomial Logistic Regression Model Using LASSO (2018)
3. Bayesian Ridge Regression Model Simulation on Data with Several Levels of Multicollinearity (2017)
4. Suitability Analysis of Random Factor Distribution in Data Modeling with Repeated Measurements in Health Sector: Mixed Model (2016)

Community Development Program

1. MS Excel Optimization in Classroom Action Research for Teachers of Tanjung Kamal I-V Elementary School in Mangaran District, Situbondo Regency (2018)
2. Data Analysis and Interpretation Training for Agricultural Researchers and Extension Trainers in Malang: Experiment Design Topics (2016)
3. Simple Office Analysis Training with MS Excel for Staff of Ash-Shohwah Social Foundation (YASA) Malang (2015)

Journal Publication

1. The implementation of the optimal rule bases generated by hybrid fuzzy C-mean and particle swarm optimization. *Journal of Theoretical and Applied Information Technology* Vol. 97 No. 16 (2019).
2. Generating of fuzzy rule bases with Gaussian parameters optimized via fuzzy C-mean and ordinary least square. *International Journal of Recent Technology and Engineering* Vol. 8 No. 4 (2019).
3. Relapse-free survival as a surrogate for overall survival in the evaluation of stage II-III melanoma adjuvant therapy. *Journal of the National Cancer institute* (2018).
4. Implementation of particle swarm optimization (PSO) algorithm for estimating parameter of ARMA model via maximum likelihood method. *Far East Journal of Mathematical Sciences* Vol. 102 (2017).
5. A goodness-of-fit for the random-effects distribution in mixed models. *Statistical Method in Medical Research* (2017).

Scientific Paper Presentation in Conference / Scientific Seminar



1. The 9th International Basic Science Seminar. Application of Zero Inflated Negative Binomial (ZINB) to Overcome Poisson Regression. Malang, March 20-21, 2019.
2. The 8th International Basic Science Seminar. Parameter Estimation of Multinomial Logistic Regression Model using Least Absolute Shrinkage and Selection Operator (LASSO). Malang, March 6-7, 2018
3. The 7th International Basic Science Seminar. Bayesian Multinomial Logistic Regression: A Simulation Study. Malang, March 7-8, 2018.
4. The 5th international Basic Science Seminar. Bootstrapping for goodness-of-fit random-effects distribution in mixed models. Malang, February 11-12, 2015.

Textbook Publication

1. Biostatistika dengan R dan Excel (2017, UB Press)
2. Ekonometrika Spasial Terapan dengan R (2019, UB Press)

Patent and Protected Rights

1. No. EC00201978410, 2019. Textbook: Ekonometrika Spasial Terapan dengan R.

Public Policy Formulation Participation

1. Judul judul/tema/jenis rekayasa social yang telah diterapkan. Tempat penerapan, Tahun.

Awards

1. Satya Lencana Karya Satya 10 Tahun from President of Republic of Indonesia 2018