

## DAFTAR PUSTAKA

- Ahrens, C.D., 2011, *Essentials of Meteorology: An Invitation to the Atmosphere*, Brooks Cole, Washington.
- Antoniadis, A., Bigot, J., dan Spatinas, T., 2001, Wavelet Estimators in Nonparametric Regression : A Comparative Simulation Study, *Journal of Statistical Software*, 6, 1–83.
- Asrini, L.J., 2014, Fourier Series Semiparametric Regression Models (Case Study: The Production of Low Land Rice Irrigation in Central Java, *ARPN Journal of Engineering and Applied Sciences*, 9, 1501–1506.
- Bain, L. J., dan Engelhardt, M., 1992, *Introduction to Probability and Mathematical Statistics*, Duxbury Press, California.
- Baltagi, B.H., 2005, *Econometrics Analysis of Panel Data 3rd Edition*, John Wiley and Sons Ltd., Chichester.
- Biedermann, S., Dette, H., dan Hoffmann, P., 2009, Constrained Optimal Discrimination Designs for Fourier Regression Models, *Ann Inst Stat Math Journal*, 61, 143–157.
- Bilodeau, M., 1992, Fourier Smoother and Additive Models, *The Canadian Journal of Statistics*, 3, 257–259.
- Bloomfield, P., 2000, *An Introduction Fourier Analysis for Time Series*, John Wiley & Sons Inc., New York.
- Box, G. E. P., Jenkins, G. W. M., Reinsel, G.C., dan Ljung, G.M., 2016, *Time Series Analysis: Forecasting and Control Fifth Edition*. John Wiley and Sons, Inc., New Jersey.
- Brockwell, P. J., dan Davis, R.A., 2016, *Introduction to Time Series and Forecasting 3rd Edition*. Springer, New York.

- Budiantara, I.N., Subanar, dan Soejoeti, Z., 1997, Weighted Spline Estimator, *Bulletin of the International Statistical Institute*, 51, 333–334.
- Budiantara, I.N., 2006, Model Spline dengan Knot Optimal, *Jurnal Ilmu Dasar FMIPA Universitas Jember*, 7(1), 77–85.
- Budiantara, I.N, Ratnasari, V., Zain, I., Ratna, M., dan Mardianto, M.F.F., 2015, Modeling of HDI and PQLI in East Java (Indonesia) using Biresponse Semiparametric Regression with Fourier Series Approach, *ATABS Journal*, 5(4), 21–28.
- Carslaw, G.P., 1921, *Introduction to the Theory of Fourier Series and Integrals*, Macmilan Inc., London.
- Case, M., Ardiansyah, F., dan Spector, E., 2007, *Climate Change in Indonesia Implications for Humans and Nature*, WWF Indonesia, Jakarta.
- Chamidah, N., Budiantara, I.N., Sunaryo, S., dan Zain, I., 2013, Designing of Child Growth Chart Based on Multi-Response Local Polynomial Modeling, *Journal of Mathematics and Statistics*, 8(3), 342–347.
- Chandra, N.E., dan Haryatmi, S., 2015, Regresi Nonparametrik Kernel *Adjusted*, *JMP*, 7(1), 1–10.
- Chong, E.K.P., dan Zak, S.H., 2013, *An Introduction to Optimization 4th Edition*, John Wiley and Sons, Inc., New York.
- Craven, P., dan Wahba, G., 1979, Smoothing Noisy Data with Spline Functions, *Numerische Mathematics*, 31, 377–403.
- Colston, J.M., Ahmed, T., Mahopo, C., Kang, G., Kosek, M., Junior, F.D.S., Shrestha, P.S., Svensen, E., Turab, A., dan Zaitchick, B., 2018, Evaluating Meteorological Data from Weather Stations, and from Satellites and Global Models for A Multi-site Epidemiological Study, *Journal of Enviromental Research*, 165, 91–109.

- Dette, H., Melas, V.B., dan Shpilev, P., 2016, T -optimal Discriminating Designs for Fourier Regression Models, *Journal of Computational Statistics and Data Analysis*, 26, 1–11.
- Danardono, 2015, *Analisis Data Longitudinal*, UGM Press, Yogyakarta.
- Diop, M.D., dan Kamdem, D.S., 2021, Multiscale Agricultural Commodities Forecasting using Wavelet-SARIMA Process, *Journal of the Indian Econometric Society*, 5(2), 23–34.
- Drapper, N.R., dan Smith, H., 1992, *Applied Regression Analysis 2nd Edition*, Marcel Dekker, New York.
- Eubank, R.L., 1999, *Spline Smoothing and Nonparametric Regression 2nd Edition*, Marcel Dekker, New York.
- Fernandes, A.A.R., Budiantara, I.N., Otok, B.W., dan Suhartono, 2014, Spline Estimator for Bi-responses Nonparametric Regression Model for Longitudinal Data, *Applied Mathematical Sciences*, 8(114), 5653–5665.
- Fitriani, A., Srinadi, I.G.A.M., dan Susilawati, M., 2015, Estimasi Model Regresi Semiparametrik Menggunakan Estimator Kernel Uniform, *E-Journal Matematika*, 4(4), 176–180.
- Fischer, H., 2011, *A History of The Central Limit Theorem From Classical to Modern Probability Theory*, Springer Series in Statistics, New York.
- Yuli, F., 2011, *Aplikasi Sistem Orthonormal Di Ruang Hilbert Pada Deret Fourier*, Prosiding Seminar Nasional Matematika dan Pendidikan Matematika Universitas Negeri Yogyakarta ISBN : 978 979 16353 6 3, Yogyakarta.
- Gao, X., dan Fang, Y., 2016, Penalized Weighted Least Squares for Outlier Detection and Robust Regression, *Contemporary Mathematics*, 6(2), 61–80.
- Gao, L., dan Xie, L., 2014, Multivariate Regression Analysis and Statistical Modeling for Summer Extreme Precipitation over the Yangtze River Basin, China, *Hindawi Advances in Meteorology*, 2014(9), 1–7.

- Green, P.J., dan Silverman, B.W., 1994, *Nonparametric Regression and Generalized Linear Model*, Chapman & Hall, London.
- Greene, W.H., 2012, *Econometric Analysis 7th Edition*, Prentice Hall International, New Jearsey.
- Gujarati, D.N., 2004, *Basic Econometrics 4th Edition*, The Mc.Grew Hill Companies, New York.
- Gunawan, H., 2017, *Analisis Fourier dan Wavelet*, ITB Press, Bandung.
- Györfi, L., Kohler, M., Krzyżak., dan Walk, H., 2002, *A Distribution-Free Theory of Nonparametric Regression*, Springer Verlag Inc., New York.
- Hardle, W., 1990, *Applied Nonparametric Regression*, Cambridge University Press, New York.
- Hardle, W., Muller, M., Werwatz, A., dan Sperlich, S., 2004, *Nonparametric and Semiparametric Models*, Springer Verlag, New York.
- Harris, T.J., 2015, *Hilbert Spaces and Fourier Series*, California State University Press, San Bernardino.
- Harville, D.A., 1990, *Matrix Algebra From a Statistician's Perspective*, Springer Verlag, New York.
- Hecke, R.V., Volgushev, S., dan Dette, H., 2017, Fourier Analysis of Serial Dependence Measures, *Journal of Time Series Analysis*, 39(1), 75–89.
- Hermawan, T., 2015, *Regresi Kernel untuk Data Longitudinal*, Tesis UGM, Yogyakarta.
- Hoeffding, W., dan Robbins, H., 1994, The Central Limit Theorem for Dependent Random Variables, *The Collected Works of Wassily Hoeffding, Springer Series in Statistics*, 205–213.

- Huang, J.Z., Wu, C.O., dan Zhou, L., 2002, Varying-coefficient Models and Basis Function Approximations for the Analysis of Repeated Measurements, *Biometrics*, 89, 111–128.
- Ibrahim, N.A., dan Suliadi, 2008, Analyzing Longitudinal Data Using Gees Smoothing Spline, *8th WSEAS International Conference on Applied Computer and Applied Computational Science*, 8, 26–33.
- Johnson, R.A., dan Wichern, D., 2007, *Applied Multivariate Statistical Analysis*, Prentice Hall, New Jearsy.
- Kasmir, 2009, *Pengantar Manajemen Keuangan*, Kenana Prenada Media Grup, Jakarta.
- Khalid, I., Suparti, dan Prahutama, A., 2015, Pemodelan Regresi Nonparametrik Data Longitudinal Menggunakan Polinomial Lokal (Studi Kasus: Harga Penutupan Saham pada Kelompok Harga Saham Periode Januari 2012 April 2015), *Jurnal Gaussian*, 4(3), 527–532.
- Lang, S., 1994, *Calculus of Several Variables Third Edition*, Springer Verlag, New York.
- Larraondo, P.R., Inza, I., dan Lozano, J.A., 2014, A Method for Wind Speed Forecasting in Airports Based on Nonparametric Regression, *American Meteorological Society*, 29, 1332–1342.
- Liang, W., Zhang, Z., Gao, J., Li, W., Liu, X., Bai, L., dan Gui, Y., 2014, The Regression Analysis between the Meteorological Synthetic Index Sequence and PM2.5 Concentration, *Applied Mathematics*, 6, 1913–1917.
- Loyarte, M.M.G., Menenti, M., dan Diblasi, A.M., 2008, Modelling Bioclimate by Means of Fourier Analysis of Time Series in Western Argentina, *International Journal of Climatology*, 28, 1175–1188.
- Malik, S., 2014, *Estimasi Kurva Regresi Nonparametrik Multivariabel untuk Data Longitudinal dengan Pendekatan Spline*, Tesis ITS, Surabaya.

- Mardianto, M.F.F., dan Budiantara, I.N., 2014, *Estimasi Model Regresi Semiparametrik Birespon dengan Pendekatan Deret Fourier*, Prosiding Semnas Matematika Unud 2014, Denpasar.
- Mardianto, M.F.F., 2017, *Modeling Factors that Influence Health Index in Indonesia using Multipredictor Semiparametric Regression with Fourier Series Approach*, Proceeding of The 7th Annual Basic Science International Conference 2017, Malang.
- Mardianto, M.F.F., Kartiko, S.H., dan Utami, H., 2017, *Prediksi Kecepatan Angin di Pulau Jawa dengan Pendekatan Regresi Nonparametrik untuk Data Longitudinal berdasarkan Estimator Spline*, Prosiding Seminar Nasional Matematika dan Aplikasinya 2017, Surabaya.
- Mardianto, M.F.F., Kartiko, S.H., dan Utami, H., 2018a, *Prediksi Cadangan Klaim Asuransi Pendidikan dengan Pendekatan Regresi Nonparametrik Deret Fourier*, Prosiding Konferensi Nasional Penelitian Matematika dan Pembelajarannya (KNPMP) III, Surakarta.
- Mardianto, M.F.F., Kartiko, S.H., dan Utami, H., 2018b, *The Properties of Fourier Series Estimator in Nonparametric Regression for Longitudinal Data*, International Conference of Mathematics Education, Theory, and Its Application, Surakarta.
- Mardianto, M.F.F., Kartiko, S.H., dan Utami, H., 2019a, *Forecasting Trend-Seasonal Data Using Nonparametric Regression with Kernel and Fourier Series Approach*, Proceedings of the Third International Conference on Computing, Mathematics and Statistics (iCMS2017) Springer, Kedah Malaysia.
- Mardianto, M.F.F., Tjahjono, E., dan Rifada, M., 2019b, Semiparametric regression based on three forms of trigonometric function in Fourier series estimator, *Journal of Physics: Conference Series* 1277 012052, 1 –10.
- Mardianto, M.F.F., Cahyono, E.F., Syarifah, L., dan Andriani, P., 2019c, *Prediction of the Number of Foreign Tourist Arrival in Indonesia Halal Tourism Entrance*

*using Simultaneously Fourier series Estimator*, KnE Social Sciences, Proceedings of the 2nd International Conference on Islamic Economics, Business, and Philanthropy, 1093 –1104.

Mardianto, M.F.F., Tjahjono, E., Rifada, M., Herawanto, A., Laksana, A.P., dan Utama, K.A., 2019d, *The Prediction of Rice Production in Indonesia Provinces for Developing Sustainable Agriculture*, Proceeding of the 1st International Conference on Food and Agriculture, 325 –333.

Mardianto, M.F.F., Tjahjono, E., dan Rifada, M., 2019e, Statistical modelling for prediction of rice production in Indonesia using semiparametric regression based on three forms of Fourier series estimator, *ARN Journal of Engineering and Applied Sciences*, 14(15), 2763 –2770.

Mardianto, M.F.F., Kartiko, S.H., dan Utami, H., 2019f, *The Asymptotic Properties of Fourier Series Estimator in Nonparametric Regression for Longitudinal Data*, 8th SEAMS UGM, Yogyakarta.

Mardianto, M.F.F., Kartiko, S.H., dan Utami, H., 2019g, *Trigonometric forms of Fourier series estimator in nonparametric regression for longitudinal data*, Data Science, Statistics and Visualization (DSSV), Kyoto.

Mardianto, M.F.F., Kartiko, S.H., dan Utami, H., 2019h, Prediction the Number of Students in Indonesia who Study in Tutoring Agency and Their Motivations based on Fourier Series Estimator and Structural Equation Modelling, *International Journal of Innovation, Creativity and Change*, 5(3), 708–731.

Mardianto, M.F.F., Ulyah, S.M., dan Tjahjono, E., 2019i, Prediction of National Strategic Commodities Production based on Multi -Response Nonparametric Regression with Fourier Series Estimator, *International Journal of Innovation, Creativity and Change*, 5(3), 1151–1176.

Mardianto, M.F.F., Kartiko, S.H., dan Utami, H., 2019j, The Estimation of Nonparametric Regression for Longitudinal Data based on Fourier Series using Weighted Least Square, *Journal of Applied Mathematics Hindawi* (under-review).

- Mardianto, M.F.F., Kartiko, S.H., dan Utami, H., 2020a, *Regression for Trend-Seasonal Longitudinal Data Pattern: Linear and Fourier Series Estimator*, Proceedings of the International Conference on Mathematics and Islam Scitepress, Mataram, 350–356.
- Mardianto, M.F.F., Kartiko, S.H., dan Utami, H., 2020b, The performance of non-parametric regression for trend and seasonal pattern in longitudinal data, *ARPN Journal of Engineering and Applied Sciences*, 15(9), 1111–1115.
- Mardianto, M.F.F., Sediono, Syahzaqi, I., Safitri, S.A.D., dan Afifah, N., 2020c, Prediction of Indonesia Strategic Commodity Prices During The Covid-19 Pandemic based on A Simultaneous Comparison of Kernel and Fourier Series Estimator, *Journal of Southwest Jiaotong University*, 55(6), 1–10.
- Mardianto, M.F.F., Kartiko, S.H., dan Utami, H., 2021a, The Fourier Series Estimator to Predict the Number of Dengue and Malaria Sufferers in Indonesia, *AIP Proceeding for International Conference on Mathematics, Computational Science and Statistics 2020*, 1–9.
- Mardianto, M.F.F., Gunardi., dan Utami, H., 2021b, An Analysis about Fourier Series Estimator in Nonparametric Regression for Longitudinal Data, *Mathematics and Statistics Horizon Research Publishing(HRPUB)*, 9(4), 501 –510.
- Mardianto, M.F.F., Kartiko, S.H., dan Utami, H., 2021c, Interval Estimation for Nonparametric Regression based on Fourier Series Estimator in Longitudinal Data, *AIP Proceeding for International Conference and Workshop on Basic and Applied Sciences 2021* (accepted).
- Menegatto, V.A., dan Jordao, C., 2014, Weighted FourierLaplace transforms in reproducing kernel Hilbert spaces on the sphere, *Journal of Mathematical Analysis and Applications*, 411(2), 732–741.
- Mohit, A.A., Udin, M.J., dan Islam, M.S., 2013, Weather Temperature Computation using Discrete Fourier Transformation Tools, *International Journal Of Engineering And Computer Science*, 2(3), 811–815.

- Nadaraya, E.A., 1964, On Estimating Regression, *Theory of Probability and its Applications*, 9(1), 141–142.
- Nurjanah, F., Utami, T.W., dan Nur, I.M., 2015, Model Regresi Nonparametrik dengan Pendekatan Deret Fourier pada Pola Data Curah Hujan di Kota Semarang, *Jurnal Statistika*, 3(2), 8–14.
- Okumura, H., dan Naito, K., 2006, Nonparametric Kernel Regression for Multinomial Data, *Journal of Multivariate Analysis*, 97, 2009–2022.
- Pane, R., Budiantara, I.N., Zain, I., dan Otok, B.W. , 2013, Parametric and Nonparametric Estimators in Fourier Series Semiparametric Regression and Their Characteristics, *Applied Mathematical Sciences*, 8(102), 5053–5064.
- Panofsky, H.A., dan Brier, C.W., 1968, *Some Applications of Statistics to Meteorology*, The Pennsylvania State University Press, Pennsylvania.
- Prahitama, A., 2013, Model Regresi Nonparametrik dengan Pendekatan Deret Fourier pada Kasus Tingkat Pengangguran Terbuka di Jawa Timur, *Jurnal Nasional Statistika Universitas Diponegoro*, 10, 67–76.
- Qu, L., 2003, *On Semiparametric Regression via Wavelets*, Proquest Information and Learning Company, New Jearsey.
- Rueda, J.G.B., Cabello, J.J., dan Schneider, I.L. , 2018, Wind-Speed Modelling Using Fourier Analysis and Nonlinear Autoregressive Neural Network (NAR), *Advances in Cleanner Production*, 7, 1–13.
- Rencher, A.R, dan Schaalje, G.B., 2008, *Linear Models in Statistics 2nd Edition*, John Wiley and Sons, Inc., New York.
- Roussas, G.G., 1997, *A Course in Mathematical Statistics 2nd Edition*, Academic Press, New York.
- Rueda, J.G.B., Cabello, J.J., dan Schneider, I.L. , 2018, Wind-Speed Modelling Using Fourier Analysis and Nonlinear Autoregressive Neural Network (NAR), *Advances in Cleanner Production*, 7, 1–13.

- Ruppert, D., Wand, M.P., dan Carrol, R.J., 2003, *Semiparametric Regression*, Cambridge University Press, Cambridge.
- Ryan, T.P, 1997, *Modern Regression Methods*, John Wiley and Sons, Inc., New York.
- Schindeldecker, J.R., 2016, *Financial Ratios. Explanation of The Most Important Financial Ratios for Economic Evaluations*, GRIN Verlag, New York.
- Schott, J.R., 1997, *Matrix Analysis for Statistics*, John Wiley and Sons, Inc., New York.
- Searle, S.R., 1971, *Linear Models Vol.1*, John Wiley and Sons, Inc., New York.
- Semiati, R., 2010, *Regresi Nonparametrik Deret Fourier Birespon*, Tesis ITS, Surabaya.
- Shorack, G.R., 2000, *Probability for Statisticians*, Springer-Verlag, New York.
- Shen, D., dan Ramos, F., 2016, *Kernel Embeddings of Longitudinal Data*, Proceedings of 29th Australasian Joint Conference on Artificial Intelligence, Hobart.
- Sifriyani, Kartiko, S.H., Budiantara, I.N., dan Gunardi, 2018, Development of non-parametric geographically weighted regression using truncated spline approach, *Songklanakarinn Journal of Science and Technology*, 40(4), 909–920.
- Simatupang, J., dan Sari, E.P., 2018, Effect of Working Capital, Asset Turnover and Sales Growth Limited Return on Assets on Food and Beverage Industry, *International Journal of Business Economics*, 2(2), 143–154.
- Spar, J., dan Mayer, J.A., 1973, Temperature Trends in New York City, *Weatherwise*, 26, 128–130.
- Subanar, 2013, *Statistika Matematika: Probabilitas, Distribusi, dan Asimtotis dalam Statistika*, Edisi Pertama, Graha Ilmu, Yogyakarta.

- Sulandari, W., Suhartono, Subanar, Utami, H., 2017, Forecasting Time Series with Trend and Seasonal Patterns based on SSA, *The 3rd International Conference on Science in Information Technology*, 648–653.
- Suslov, S.K, 2003, *An Introduction to Basic Fourier Series*, Springer-Science, Arizona.
- Takezawa, K., 2006, *Introduction to Nonparametric Regression*, John Wiley & Sons, Inc., New Jearsy.
- Tjahjono, E., 2009, *Estimator Deret Fourier Terbobot Pada Regresi Nonparametrik*, Tesis ITS, Surabaya.
- Tjahjono, E., Mardianto, M.F.F., dan Chamidah, N., 2018, Prediction of Electricity Consumption using Fourier Series Estimator in Bi-Response Nonparametric Regression Model, *Far East Journal of Mathematical Sciences*, 103 (8), 1251–1263.
- Tripena, A., dan Budiantara, I.N., 2006, *Fourier Estimator in Nonparametric Regression*, Proceeding International Conference On Natural Sciences and Applied Natural Scienes Ahmad Dahlan University, Yogyakarta.
- Tolstov, G.P., 1962, *Fourier Series*, Dover Publications Inc., New York.
- Utami, T.W., 2013, *Estimasi Model Regresi Nonparametrik pada Data Longitudinal berdasarkan Estimator Polinomial Lokal Kernel Generalized Estimating Equation*, Tesis ITS, Surabaya.
- Wahba, G., 1992, *Spline Model for Observational Data*, SIAM XII, Philadelphia.
- Wahba, G., 1992, *Spline Model for Observational Data*, SIAM XII, Philadelphia.
- Wang, Y., 2011, *Smoothing Splines Methods and Application*, CRC Press, New York.
- Whang, N., 2003, Marginal Nonparametric Kernel Regression Accounting for Within-Subject Correlation, *Biometrics*, 90, 43–52.

- Watson, G.S., 1964, Smooth Regression Analysis, *The Indian Journal of Statistic*, 26 (4), 359–372.
- Weiss, R.E., 2005, *Modeling Longitudinal Data*, Springer Texts in Statistic, New York.
- Whittle, P., 1952, The Simultaneous Estimation of a Time Series Harmonic Components and Covariance Structure , *Trab. Estadist*, 3, 43–57.
- Wooldridge, J.M., 2002, *Econometric Analysis of Cross Section and Panel Data*, The MIT Press, Cambridge.
- Wibowo, W., Haryatmi, S., dan Budiantara, I.N., 2012, Penalized Least Square for Semiparametric Regression, *International Journal of Academic Research*, 4(6), 274–279.
- Wu, C.O., dan Chiang, C.T., 2006, Kernel Smoothing on Varying Coefficient Model with Longitudinal Dependent Variable, *Statistica Sinica*, 10, 433–456.
- Wu, H., dan Zhang, J.T., 2006, *Nonparametric Regression Methods for Longitudinal Data Analysis*, John Wiley and Sons, Inc., New Jersey.
- You, J., dan Zhou, X., 2009, Partially Linear Models and Polynomial Spline Approximations for the Analysis of Unbalanced Panel Data. *Journal of Statistical Planning and Inference*, 139, 679–695.
- Zhang, D., Chen, S., Ling, L., dan Xia, Q., 2020, Forecasting Agricultural Commodity Prices Using Model Selection Framework With Time Series Features and Forecast Horizons, *IEEE Access PP*, 99(1), 11–18.
- Zhang, J.P., 1997, Multivariate Addaptive Spline for the Analysis of Longitudinal Data, *Journal of Computational and Graphical Statistics*, 6, 74–91.