













- regression splines," *Georisk: Assessment and Management of Risk for Engineered Systems and Geohazards*, vol. 15, no. 1, pp. 27-40, 2021.
- [6] C. K. Arthur, V. A. Temeng and Y. Y. Ziggah, "Multivariate Adaptive Regression Splines (MARS) approach to blast-induced ground vibration prediction," *International Journal of Mining, Reclamation and Environment*, vol. 34, no. 3, pp. 198-222, 2020.
- [7] D. H. W. Li, W. Chen, S. Li and S. Lou, "Estimation of hourly global solar radiation using Multivariate Adaptive Regression Spline (MARS) – A case study of Hong Kong," *Energy*, vol. 186, 2019.
- [8] N. B. Serrano, A. S. Sanchez, f. S. Lasheras, F. J. Iglesias-Rodriguez and G. F. Valverde, "Identification of gender differences in the factors influencing shoulders, neck and upper limb MSD by means of multivariate adaptive regression splines (MARS)," *Applied Ergonomics*, vol. 82, 2020.
- [9] K. Sun, M. Rajabtabar, S. Samadi, M. Rezaie-Balf, A. Ghaemi, S. S. Band and A. Mosavi, "An integrated machine learning, noise suppression, and population-based algorithm to improve total dissolved solids prediction," *Engineering Applications of Computational Fluid Mechanics*, vol. 15, no. 1, pp. 251-271, 2021.
- [10] Y. Liu, W. Tian and X. Zhou, "Energy and carbon performance of urban buildings using metamodelling variable importance techniques," *Building Simulation*, vol. 14, pp. 535-547, 2021.
- [11] M. Kumar and P. Samui, "Reliability Analysis of Pile Foundation Using ELM and MARS," *Geotechnical and Geological Engineering*, vol. 37, pp. 3447-3457, 2019.
- [12] A. Maleki, M. Elahi, M. E. H. Assad, M. A. Nazari, M. S. Shadloo and N. Nabipour, "Thermal conductivity modeling of nanofluids with ZnO particles by using approaches based on artificial neural network and MARS," *Journal of Thermal Analysis and Calorimetry*, vol. 143, pp. 4261-4272, 2021.
- [13] Z. A. Al-Sudani, S. Q. Salih, A. Sharafati and Z. M. Yaseen, "Development of multivariate adaptive regression spline integrated with differential evolution model for streamflow simulation," *Journal of Hydrology*, vol. 573, pp. 1-12, 2019.
- [14] S. C. Gupta and V. K. Kapoor, *Fundamentals of mathematical statistics*, New-Delhi: Sultan Chand & Sons, 2020.
- [15] A. E. Marques, P. A. Prates, A. F. G. Pereira, M. C. Oliveira, J. V. Fernandes and B. M. Ribeiro, "Performance Comparison of Parametric and Non-Parametric Regression Models for Uncertainty Analysis of Sheet Metal Forming Processes," *Metals*, vol. 10, no. 4, p. 457, 2020.
- [16] D. J. Henderson and A.-C. Souto, "An Introduction to Non-parametric Regression for Labor Economists," *Journal of Labor Research*, vol. 39, pp. 355-382, 2018.
- [17] D. P. Rahmawati, I. N. Budiantara, D. D. Prastyo and M. A. D. Octavanny, "Modeling of Human Development Index in Papua Province Using Spline Smoothing Estimator in Non-parametric Regression," in *3rd International Conference on Statistics, Mathematics, Teaching, and Research*, Makassar, 2021.
- [18] M. Kobayashi, K. Hoshina, Y. Nemoto, S. Takagi, M. Shojima, M. Hayakawa, S. Yamada and M. Oshima, "A penalized spline fitting method to optimize geometric parameters of arterial centerlines extracted from medical images," *Computerized Medical Imaging and Graphics*, vol. 84, 2020.
- [19] N. P. A. M. Mariati, I. N. Budiantara and V. Ratnasari, "The Application of Mixed Smoothing Spline and Fourier Series Model in Non-parametric Regression," *Symmetry*, vol. 13, no. 11, 2021.
- [20] R. Hidayat, I. N. Budiantara, B. W. Otok and V. Ratnasari, "The regression curve estimation by using mixed smoothing spline and kernel (MsS-K) model," *Communications in Statistics - Theory and Methods*, vol. 50, no. 17, pp. 3942-3953, 2019.
- [21] R. Hidayat, I. N. Budiantara, B. W. Otok and V. Ratnasari, "An Extended Model of Penalized Spline with The Addition of Kernel Functions in Non-parametric Regression Model," *Applied Mathematics & Information Sciences*, vol. 13, no. 3, pp. 453-460, 2019.
- [22] M. A. D. Octavanny, I. N. Budiantara, H. Kuswanti and D. P. Rahmawati, "Non-parametric Regression Model for Longitudinal Data with Mixed Truncated Spline and Fourier Series," *Abstract and Applied Analysis*, 2020.
- [23] D. A. Widyastuti, A. A. R. Fernandes and H. Pramodyo, "Spline estimation method in non-parametric regression using truncated spline approach," in *1st International Conference on Mathematics and its Applications (ICoMathApp)*, Malang, 2020.
- [24] S. D. P. Yasmirullah, B. W. Otok, J. D. T. Purnomo and D. D. Prastyo, "Modification of Multivariate Adaptive Regression Spline (MARS)," in *International Conference on Mathematics, Statistics and Data Science (ICMSDS)*, Bogor, 2020.
- [25] D. D. Prawanti, I. N. Budiantara and J. D. T. Purnomo, "Parameter Interval Estimation of Semiparametric Spline Truncated Regression Model for Longitudinal Data," *IOP Conference Series: Materials Science and Engineering*, vol. 546, no. 5, 2019.
- [26] M. Ramli, V. Ratnasari and I. N. Budiantara, "Estimation of Matrix Variance-Covariance on Non-parametric Regression Spline Truncated for Longitudinal Data," in *The 15th International Symposium on Geometric Function Theory and Applications*, Malang, 2020.
- [27] M. P. Wand, "A Comparison of Regression Spline Smoothing Procedures," *Computational Statistics*, vol. 15, pp. 443-462, 2000.
- [28] A. Ghaemi, M. Rezaie-Balf, J. Adamowski, O. Kisi and J. Quilty, "On the applicability of maximum overlap discrete wavelet transform integrated with MARS and M5 model tree for monthly pan evaporation prediction," *Agricultural and Forest Meteorology*, vol. 278, 2019.
- [29] S. K. Depren and M. T. Kartal, "Prediction on the volume of non-performing loans in Turkey using multivariate adaptive regression splines approach," *International Journal of Finance & Economics*, vol. 26, no. 4, pp. 6395-6405, 2021.
- [30] B. W. Otok, R. Y. Putra, Sutikno and S. D. P. Yasmirullah, "Bootstrap Aggregating Multivariate Adaptive Regression Spline for Observational Studies in Diabetes Cases," *Systematic Reviews in Pharmacy*, vol. 11, no. 8, pp. 406-413, 2020.
- [31] N. Santoso and S. P. Wulandari, "Hybrid Support Vector Machine to Preterm Birth Prediction," *Indonesian Journal of Electronics and Instrumentation Systems (IJEIS)*, vol. 8, no. 2, pp. 191-200, 2018.
- [32] P. J. García-Nieto, E. García-Gonzalo, J. R. A. Fernández and C. D. Muñiz, "Modeling eutrophication risks in Tanes reservoir by using a hybrid WOA optimized SVR-relied technique along with feature selection based on the MARS approximation," *Stochastic Environmental Research and Risk Assessment*, 2021.
- [33] J. H. Friedman, "Multivariate Adaptive Regression Splines," *Ann. Statist.*, vol. 19, no. 1, pp. 1-67, 1991.
- [34] M. H. Ahmadi, B. Mohseni-Gharyehsafa, M. Farzaneh-Gord, R. D. Jilte, R. Kumar and K.-w. Chau, "Applicability of connectionist methods to predict dynamic viscosity of silver/water nanofluid by using ANN-MLP, MARS and MPR algorithms," *Engineering Applications of Computational Fluid Mechanics*, vol. 13, no. 1, pp. 220-228, 2019.
- [35] S. D. P. Yasmirullah, B. W. Otok, J. D. T. Purnomo and D. D. Prastyo, "Multivariate adaptive regression spline (MARS) methods with application to multi drug-resistant tuberculosis (MDR-TB) prevalence," in *AIP Conference Proceedings*, 2021.
- [36] J. Diaz, F. J. Fernandez and M. M. Prieto, "Hot Metal Temperature Forecasting at Steel Plant Using Multivariate Adaptive Regression Splines," *Metals*, vol. 10, no. 1, p. 41, 2020.
- [37] G. E. B. Archer, A. Saltelli and I. M. Sobol, "Sensitivity measures,anova-like Techniques and the use of bootstrap," *Journal of Statistical Computation and Simulation*, vol. 58, no. 2, pp. 99-120, 1997.