

DAFTAR PUSTAKA

- Alpaydin Ethem, 2020, *Introduction to Machine Learning - Ethem Alpaydin - Google Books. Massachusetts Institute of Technology.*
- Antony, J., 2023, *Design of Experiments for Engineers and Scientists, Third Edition. Design of Experiments for Engineers and Scientists, Third Edition.*
- Arifin, N. A. M., Saman, M. Z. M., Sharif, S., and Ngadiman, N. H. A., 2022, Sustainability Implications of Additive Manufacturing. *Lecture Notes in Mechanical Engineering.*
- Bakır, A. A., Atik, R., and Özerinç, S., 2021, Effect of fused deposition modeling process parameters on the mechanical properties of recycled polyethylene terephthalate parts. *Journal of Applied Polymer Science*, Vol.138, No.3,.
- Balducci, B., and Marinova, D., 2018, Unstructured data in marketing. *Journal of the Academy of Marketing Science.*
- Bayraklılar, M. S., 2023, Dimensional Accuracy of Acrylonitrile Butadiene Styrene Material Produced by Additive Manufacturing Method. *Journal of Materials Engineering and Performance.*
- Bayraktar, Ö., Uzun, G., Çakiroğlu, R., and Guldaz, A., 2017, Experimental study on the 3D-printed plastic parts and predicting the mechanical properties using artificial neural networks. *Polymers for Advanced Technologies*, Vol.28, No.8,.
- Behzadnasab, M., Yousefi, A. A., Ebrahimibagha, D., and Nasiri, F., 2020, Effects of processing conditions on mechanical properties of PLA printed parts. *Rapid Prototyping Journal*, Vol.26, No.2,.
- Bembenek, M., Kowalski, Ł., and Kosoń-Schab, A., 2022, Research on the Influence of Processing Parameters on the Specific Tensile Strength of FDM Additive Manufactured PET-G and PLA Materials. *Polymers*, Vol.14, No.12,.
- Bevilacqua, A., Corbo, M. R., and Sinigaglia, M., 2010, Design of experiments : a powerful tool in food microbiology Design of experiments : a powerful tool in food microbiology. *Current Research, Technology and education Topics in Applied Microbiology and Microbial Biotechnology*, Vol.No.March 2015,.

- Bezerra, M. A., Santelli, R. E., Oliveira, E. P., Villar, L. S., and Escaleira, L. A., 2008, Response surface methodology (RSM) as a tool for optimization in analytical chemistry. *Talanta*.
- Bhandari, S., Regina, B., and Professor, A., in press. *3D Printing and Its Applications. International Journal of Computer Science and Information Technology Research* (Vol. 2). Retrieved from <http://www.theengineer.co.uk/in-depth/the-big-story/the-rise-of-additive-manufacturing/1002560.article>
- Bhattacharya, S., 2021, Central Composite Design for Response Surface Methodology and Its Application in Pharmacy. *Response Surface Methodology in Engineering Science*.
- Bishop, C. M., 2014, Bishop - Pattern Recognition And Machine Learning - Springer 2006. *Antimicrobial agents and chemotherapy*, Vol.58, No.12,.
- Camposeco-Negrete, C., 2020, Optimization of printing parameters in fused deposition modeling for improving part quality and process sustainability. *The International Journal of Advanced Manufacturing Technology*, Vol.108, No.7–8, pp.2131–2147.
- Cherkassky, V., and Mulier, F., 2006, *Learning from Data: Concepts, Theory, and Methods: Second Edition. Learning from Data: Concepts, Theory, and Methods: Second Edition*.
- Ciaburro, G., and Venkateswaran, B., 2017, *Neural network with R: Smart models using CNN, RNN, deep learning, and artificial intelligence principles. Packt* (Vol. 91).
- Cireşan, D. C., Meier, U., Masci, J., Gambardella, L. M., and Schmidhuber, J., 2011, Flexible, high performance convolutional neural networks for image classification. *IJCAI International Joint Conference on Artificial Intelligence*.
- CIRP Encyclopedia of Production Engineering 2014, CIRP Encyclopedia of Production Engineering*. Springer Berlin Heidelberg.
- Clarke, M. R. B., Duda, R. O., and Hart, P. E., 1974, Pattern Classification and Scene Analysis. *Journal of the Royal Statistical Society. Series A (General)*, Vol.137, No.3,.
- Demuth, H., and Raele, M. H., 2009, Neural Network Toolbox User's Guide For Use with MATLAB. *The MathWorks*.

- Deshwal, S., Kumar, A., and Chhabra, D., 2020, Exercising hybrid statistical tools GA-RSM, GA-ANN and GA-ANFIS to optimize FDM process parameters for tensile strength improvement. *CIRP Journal of Manufacturing Science and Technology*, Vol.31, .
- Dey, A., and Yodo, N., 2019, A systematic survey of FDM process parameter optimization and their influence on part characteristics. *Journal of Manufacturing and Materials Processing*.
- D'Souza, S., Prema, K. V., and Balaji, S., 2020, Machine learning models for drug–target interactions: current knowledge and future directions. *Drug Discovery Today*.
- El youbi El idrissi, M. A., Laaouina, L., Jeghal, A., Tairi, H., and Zaki, M., 2023, Modeling of Energy Consumption and Print Time for FDM 3D Printing Using Multilayer Perceptron Network. *Journal of Manufacturing and Materials Processing*, Vol.7, No.4,.
- Elbadawi, M., Muñiz Castro, B., Gavins, F. K. H., Ong, J. J., Gaisford, S., Pérez, G., Basit, A. W., Cabalar, P., and Goyanes, A., 2020, M3DISEEN: A novel machine learning approach for predicting the 3D printability of medicines. *International Journal of Pharmaceutics*, Vol.590, .
- Farbman, D., and McCoy, C., 2016, Materials testing of 3D printed ABS and PLA samples to guide mechanical design. *ASME 2016 11th International Manufacturing Science and Engineering Conference, MSEC 2016* (Vol. 2).
- Feng, J., and Lu, S., 2019, Performance Analysis of Various Activation Functions in Artificial Neural Networks. *Journal of Physics: Conference Series* (Vol. 1237).
- Giri, J., Shahane, P., Jachak, S., Chadge, R., and Giri, P., 2021, Optimization of fdm process parameters for dual extruder 3d printer using artificial neural network. *Materials Today: Proceedings* (Vol. 43, pp. 3242–3249). Elsevier Ltd.
- Grimmelsmann, N., Kreuziger, M., Korger, M., Meissner, H., and Ehrmann, A., 2018, Adhesion of 3D printed material on textile substrates. *Rapid Prototyping Journal*, Vol.24, No.1,.
- Hadi Irazman, H. N., Saad, M. S., Baharudin, M. E., Zakaria, M. Z., Nor, A. M., and Rahim, Y. A., 2023, ANN-Based Predictive Modelling for Fused Deposition Modelling: Material Consumption, Tensile Strength & Dimensional Accuracy. *International Journal of Engineering Trends and Technology*, Vol.71, No.11, pp.1–17.

- Hagan, M. T., and Menhaj, M. B., 1994, Training Feedforward Networks with the Marquardt Algorithm. *IEEE Transactions on Neural Networks*, Vol.5, No.6,.
- Han, Q., Setchi, R., and Evans, S. L., 2016, Synthesis and characterisation of advanced ball-milled Al-Al₂O₃ nanocomposites for selective laser melting. *Powder Technology*, Vol.297, .
- Jierula, A., Wang, S., Oh, T. M., and Wang, P., 2021, Study on accuracy metrics for evaluating the predictions of damage locations in deep piles using artificial neural networks with acoustic emission data. *Applied Sciences (Switzerland)*, Vol.11, No.5,.
- Khalid, M., and Peng, Q., 2021, Investigation of printing parameters of additive manufacturing process for sustainability using design of experiments. *Journal of Mechanical Design*, Vol.143, No.3,.
- Krishniah, K., Shahabudeen, P., Krishnaiah, K., and Shahabudeen, P., 2012, *Applied design of experiments and Taguchi methods. e-Book EEE*.
- Krittawong, C., Zhang, H. J., Wang, Z., Aydar, M., and Kitai, T., 2017, Artificial Intelligence in Precision Cardiovascular Medicine. *Journal of the American College of Cardiology*.
- Lek, S., and Park, Y. S., 2008, Artificial Neural Networks. *Encyclopedia of Ecology, Five-Volume Set*, Vol.1–5, pp.237–245.
- Lewis, 1982, *Industrial and Business Forecasting Methods. Psicothema*.
- Mammadli, S., 2017, Financial time series prediction using artificial neural network based on Levenberg-Marquardt algorithm. *Procedia Computer Science* (Vol. 120).
- Manoharan, K., Chockalingam, K., and Ram, S. S., 2020, Prediction of tensile strength in fused deposition modeling process using artificial neural network technique. *AIP Conference Proceedings* (Vol. 2311).
- Marsland, S., 2014, *Machine learning: An algorithmic perspective. Machine Learning: An Algorithmic Perspective, Second Edition*.
- Martín, M. J., Auñón, J. A., and Martín, F., 2021, Influence of infill pattern on mechanical behavior of polymeric and composites specimens manufactured using fused filament fabrication technology. *Polymers*, Vol.13, No.17,.

- Montaño Moreno, J. J., Palmer Pol, A., Sesé Abad, A., and Cajal Blasco, B., 2013, Using the R-MAPE index as a resistant measure of forecast accuracy. *Psicothema*, Vol.25, No.4,.
- Nikolaev, P., Hooper, D., Webber, F., Rao, R., Decker, K., Krein, M., Poleski, J., Barto, R., and Maruyama, B., 2016, Autonomy in materials research: A case study in carbon nanotube growth. *npj Computational Materials*, Vol.2, .
- Pedrycz, W., 1990, Fuzzy sets in pattern recognition: Methodology and methods. *Pattern Recognition*, Vol.23, No.1–2,.
- Peng, T., and Yan, F., 2018, Dual-objective Analysis for Desktop FDM Printers: Energy Consumption and Surface Roughness. *Procedia CIRP* (Vol. 69).
- Penumakala, P. K., Santo, J., and Thomas, A., 2020, A critical review on the fused deposition modeling of thermoplastic polymer composites. *Composites Part B: Engineering*.
- Personal RePEc Archive, M., and Mohan, R., 2024, *M P RA Perfect Multicollinearity and Dummy Variable Trap: Explaining the Unexplained*.
- Popova, M., Isayev, O., and Tropsha, A., 2018, Deep reinforcement learning for de novo drug design. *Science Advances*, Vol.4, No.7,.
- Rejeski, D., Zhao, F., and Huang, Y., 2018, Research needs and recommendations on environmental implications of additive manufacturing. *Additive Manufacturing*.
- Rouf, S., Raina, A., Irfan Ul Haq, M., Naveed, N., Jeganmohan, S., and Farzana Kichloo, A., 2022, 3D printed parts and mechanical properties: Influencing parameters, sustainability aspects, global market scenario, challenges and applications. *Advanced Industrial and Engineering Polymer Research*.
- Russell, S., and Norvig, P., 2021, Artificial Intelligence: A Modern Approach (Global Edition). *Artificial Intelligence: A Modern Approach*.
- Sada, S. O., 2018, Modeling performance of response surface methodology and artificial neural network. *Journal of Applied Sciences and Environmental Management*, Vol.22, No.6, pp.875.
- Salah Alaloul, W., and Hannan Qureshi, A., 2020, Data Processing Using Artificial Neural Networks. *Dynamic Data Assimilation - Beating the Uncertainties*.
- Salehi, H., and Burgueño, R., 2018, Emerging artificial intelligence methods in structural engineering. *Engineering Structures*.

- Sandon, F., 1952, Experimental Designs. By W.G. Cochran and G.M. Cox. Pp. ix, 454. 46s. 1950. (Wiley & Sons, New York; Chapman & Hall, London). *The Mathematical Gazette*, Vol.36, No.315,.
- Shahrjerdi, A., Karamimoghadam, M., and Bodaghi, M., 2023, Enhancing Mechanical Properties of 3D-Printed PLAs via Optimization Process and Statistical Modeling. *Journal of Composites Science*, Vol.7, No.4,.
- Standard Test Method for Tensile Properties of Plastics 1 in press. doi:10.1520/D0638-14
- Subramonian, S., Kadirgama, K., Al-Obaidi, A. S. M., Salleh, M. S. M., Vatesh, U. K., Pujari, S., Rao, D., and Ramasamy, D., 2023, Artificial Neural Network Performance Modeling and Evaluation of Additive Manufacturing 3D Printed Parts. *Engineering, Technology and Applied Science Research*, Vol.13, No.5, pp.11677–11684.
- Support Community. (2024). Ultimaker.com.
<https://support.ultimaker.com/s/article/1667411002588>
- Tünçay, M. M., 2023, An Investigation of 3D Printing Parameters on Tensile Strength of PLA Using Response Surface Method. *Journal of Materials Engineering and Performance*.
- Vahed, R., Zareie Rajani, H. R., and Milani, A. S., 2022, Can a Black-Box AI Replace Costly DMA Testing?—A Case Study on Prediction and Optimization of Dynamic Mechanical Properties of 3D Printed Acrylonitrile Butadiene Styrene. *Materials*, Vol.15, No.8,.
- Wohlers, T., 2023, *Wohlers Report 2023 Analysis. Trends. Forecasts. 3D Printing and Additive Manufacturing State of the Industry*. Wohlers Associates.
- Yasmin, F., Khan, M., and Peng, Q., 2024, Optimization of Processing Parameters for 3D Printed Product Using Taguchi Method. *Computer-Aided Design and Applications*, Vol.21, No.2, pp.281–300.
- Ying, X., 2019, An Overview of Overfitting and its Solutions. *Journal of Physics: Conference Series* (Vol. 1168).
- Yuan, Y., 2020, Research Status and Development Trend of 3D Printing Technology. *IOP Conference Series: Materials Science and Engineering* (Vol. 711).
- Ziemian, S., Okwara, M., and Ziemian, C. W., 2015, Tensile and fatigue behavior of layered acrylonitrile butadiene styrene. *Rapid Prototyping Journal*, Vol.21, No.3,.

Zou, J., Han, Y., and So, S. S., 2008, Overview of artificial neural networks. *Methods in Molecular Biology*.