

## DAFTAR PUSTAKA

- Arshak, K., Moore, E., Lyons, G.M., Harris, J. and Clifford, S., 2004, A review of gas sensors employed in electronic nose applications, *Sensor Review*, <https://doi.org/10.1108/02602280410525977>.
- Banerjee(Roy), R., Chattopadhyay, P., Tudu, B., Bhattacharyya, N. and Bandyopadhyay, R., 2014, Artificial flavor perception of black tea using fusion of electronic nose and tongue response: A Bayesian statistical approach, *Journal of Food Engineering*, <https://doi.org/10.1016/j.jfoodeng.2014.06.004>.
- Bartlett, J.W.G. and P.N., 2000, *Electronic Noses. Principles and Applications, Measurement Science and Technology*, <https://doi.org/10.1088/0957-0233/11/7/702>.
- Bhattacharyya, N., Bandyopadhyay, R., Bhuyan, M., Tudu, B., Ghosh, D. and Jana, A., 2008, Electronic Nose for Black Tea Classification and Correlation of Measurements With “Tea Taster” Marks, *IEEE Transactions on Instrumentation and Measurement*, <https://doi.org/10.1109/tim.2008.917189>.
- Chatterjee, T.N., Roy, R.B., Tudu, B., Biswas, S., Bandyopadhyay, R., Pramanik, P. and Bhattacharyya, N., 2016, Discrimination of black tea grades by means of cyclic voltammetry using polyacrylamide/exfoliated graphite composite electrode, 2016 2nd International Conference on Control, Instrumentation, Energy & Communication (CIEC), <https://doi.org/10.1109/ciec.2016.7513799>.
- Chen, H. and Ye, W., 2020, Classification of Human Activity Based on Radar Signal Using 1-D Convolutional Neural Network, *IEEE Geoscience and Remote Sensing Letters*, <https://doi.org/10.1109/lgrs.2019.2942097>.
- Chowdhury, T.T., Hossain, A., Fattah, S.A. and Shahnaz, C., 2019, Seizure and Non-Seizure EEG Signals Detection Using 1-D Convolutional Neural Network Architecture of Deep Learning Algorithm, 2019 1st International Conference on Advances in Science, Engineering and Robotics Technology (ICASERT), <https://doi.org/10.1109/icasert.2019.8934564>.
- Fukushima, K. and Miyake, S., 1982, Neocognitron: A new algorithm for pattern recognition tolerant of deformations and shifts in position, *Pattern Recognition*, [https://doi.org/10.1016/0031-3203\(82\)90024-3](https://doi.org/10.1016/0031-3203(82)90024-3).
- Goodfellow, I., Bengio, Y., & Courville, A., 2016, *Deep Learning*, MIT Press.

- Gong, X., Han, Y., Zhu, J., Hong, L., Zhu, D., Liu, J., Zhang, X., Niu, Y. and Xiao, Z., 2017, Identification of the aroma-active compounds in Longjing tea characterized by odor activity value, gas chromatography- olfactometry, and aroma recombination, *International Journal of Food Properties*, <https://doi.org/10.1080/10942912.2017.1336719>.
- Guney, S. and Atasoy, A., 2011, Classification of n-butanol concentrations with k-NN algorithm and ANN in electronic nose, 2011 International Symposium on Innovations in Intelligent Systems and Applications, <https://doi.org/10.1109/inista.2011.5946057>.
- Guo, M.-F., Gao, J.-H., Shao, X. and Chen, D.-Y., 2021, Location of Single-Line-to-Ground Fault Using 1-D Convolutional Neural Network and Waveform Concatenation in Resonant Grounding Distribution Systems, *IEEE Transactions on Instrumentation and Measurement*, <https://doi.org/10.1109/tim.2020.3014006>.
- Hahnloser, R.H.R., Sarpeshkar, R., Mahowald, M.A., Douglas, R.J. and Seung, H.S., 2000, Digital selection and analogue amplification coexist in a cortex-inspired silicon circuit, *Nature*, <https://doi.org/10.1038/35016072>.
- Haidar, A. and Verma, B., 2018, Monthly Rainfall Forecasting Using One-Dimensional Deep Convolutional Neural Network, *IEEE Access*, <https://doi.org/10.1109/access.2018.2880044>.
- Haykin, S.O., 1998, *Neural networks: A comprehensive foundation*: United States edition, 2nd ed, Pearson, Upper Saddle River, NJ.
- Hidayat, S.N., Triyana, K., Fauzan, I., Julian, T., Lelono, D., Yusuf, Y., Ngadiman, N., Veloso, A.C.A. and Peres, A.M., 2019, The Electronic Nose Coupled with Chemometric Tools for Discriminating the Quality of Black Tea Samples In Situ, *Chemosensors*, <https://doi.org/10.3390/chemosensors7030029>.
- Hinton, G.E. and Salakhutdinov, R.R., 2006, Reducing the Dimensionality of Data with Neural Networks, *Science*, <https://doi.org/10.1126/science.1127647>.
- Hubel, D.H., 1960, Single unit activity in lateral geniculate body and optic tract of unrestrained cats, *The Journal of Physiology*, <https://doi.org/10.1113/jphysiol.1960.sp006375>.
- Karori, S, M., Wachira, F, N., Wanyoko, J, K., Ngure and R, M., 2007, Antioxidant capacity of different types of tea products, *African Journal of Biotechnology*, <https://doi.org/10.5897/ajb2007.000-2358>.

- Kim, T., Lee, J. and Nam, J., 2017, Sample-level CNN Architectures for Music Auto-tagging Using Raw Waveforms, <https://doi.org/10.48550/ARXIV.1710.10451>.
- Kim, T.S. and Sohn, S.Y., 2020, Multitask learning for health condition identification and remaining useful life prediction: deep convolutional neural network approach, Journal of Intelligent Manufacturing, <https://doi.org/10.1007/s10845-020-01630-w>.
- Kingma, D.P. and Ba, J., 2014, Adam: A Method for Stochastic Optimization, <https://doi.org/10.48550/ARXIV.1412.6980>.
- Kiranyaz, S., Avci, O., Abdeljaber, O., Ince, T., Gabbouj, M. and Inman, D.J., 2021, 1D convolutional neural networks and applications: A survey, Mechanical Systems and Signal Processing, <https://doi.org/10.1016/j.ymssp.2020.107398>.
- Kiranyaz, S., Ince, T. and Gabbouj, M., 2016, Real-Time Patient-Specific ECG Classification by 1-D Convolutional Neural Networks, IEEE Transactions on Biomedical Engineering, <https://doi.org/10.1109/tbme.2015.2468589>.
- Krizhevsky, A., Sutskever, I. and Hinton, G.E., 2017, ImageNet classification with deep convolutional neural networks, Communications of the ACM, <https://doi.org/10.1145/3065386>.
- Lecun, Y., Boser, B. E., Denker, J. S., Henderson, D., Howard, R. E., Hubbard, W., & Jackel, L. D. 1992, Handwritten digit recognition with a back-propagation network, In P. G. J. Lisboa (Ed.), Neural networks, current applications Chapman Hall/CRC Publishers.
- LeCun, Y., Bengio, Y. and Hinton, G., 2015, Deep learning, Nature, <https://doi.org/10.1038/nature14539>.
- Lee, H., Jeong, H. and Kim, S.W., 2019, Detection of Interturn Short-Circuit Fault and Demagnetization Fault in IPMSM by 1-D Convolutional Neural Network, 2019 IEEE PES Asia-Pacific Power and Energy Engineering Conference (APPEEC), <https://doi.org/10.1109/appeec45492.2019.8994556>.
- Lee, X.Y., Amano, M., Tamura, S. and Nishino, Y., 2020, Research of evaluation method to use tea leaves of high-class black tea effectively (E), GPI Journal, [https://doi.org/10.24570/gpijournal.6.1\\_260](https://doi.org/10.24570/gpijournal.6.1_260).
- Lelono, D., Triyana, K., Hartati, S. and Istiyanto, J.E., 2016, Classification of Indonesia black teas based on quality by using electronic nose and principal component analysis, AIP Conference Proceedings, <https://doi.org/10.1063/1.4958468>.

- Liao, G.-P., Gao, W., Yang, G.-J. and Guo, M.-F., 2019, Hydroelectric Generating Unit Fault Diagnosis Using 1-D Convolutional Neural Network and Gated Recurrent Unit in Small Hydro, IEEE Sensors Journal, <https://doi.org/10.1109/jsen.2019.2926095>.
- MTW, Liu, H. and Motoda, H., 1999, Feature Extraction Construction and Selection: A Data Mining Perspective, Journal of the American Statistical Association, <https://doi.org/10.2307/2669967>.
- Mutlag, W.K., Ali, S.K., Aydam, Z.M. and Taher, B.H., 2020, Feature Extraction Methods: A Review, Journal of Physics: Conference Series, <https://doi.org/10.1088/1742-6596/1591/1/012028>.
- Palit, M., Tudu, B., Dutta, P.K., Dutta, A., Jana, A., Roy, J.K., Bhattacharyya, N., Bandyopadhyay, R. and Chatterjee, A., 2010, Classification of Black Tea Taste and Correlation With Tea Taster's Mark Using Voltammetric Electronic Tongue, IEEE Transactions on Instrumentation and Measurement, <https://doi.org/10.1109/tim.2009.2032883>.
- Pan, H., He, X., Tang, S., & Meng, F. 2018, An Improved Bearing Fault Diagnosis Method using One-Dimensional CNN and LSTM, Strojniški vestnik - Journal of Mechanical Engineering, 64(7-8), 443-452, doi:<http://dx.doi.org/10.5545/sv-jme.2018.5249>
- Panda, S.K., Nag, S. and Jana, P.K., 2014, A smoothing based task scheduling algorithm for heterogeneous multi-cloud environment, 2014 International Conference on Parallel, Distributed and Grid Computing, <https://doi.org/10.1109/pdgc.2014.7030716>.
- Pearce, T.C., Schiffman, S.S., Nagle, H.T. and Gardner, J.W. eds., 2002, Handbook of Machine Olfaction, [online] Wiley, <https://doi.org/10.1002/3527601597>.
- Ragab, M.G., Abdulkadir, S.J., Aziz, N., Al-Tashi, Q., Alyousifi, Y., Alhussian, H. and Alqushaibi, A., 2020, A Novel One-Dimensional CNN with Exponential Adaptive Gradients for Air Pollution Index Prediction, Sustainability, <https://doi.org/10.3390/su122310090>.
- Roberts, E.A.H. and Smith, R.F., 1961, Spectrophotometric measurements of theaflavins and thearubigins in black tea liquors in assessments of quality in teas, The Analyst, <https://doi.org/10.1039/an9618600094>.
- Rubinstein, R.Y. and Kroese, D.P., 2004, The Cross-Entropy Method, [online] Information Science and Statistics, Springer New York, <https://doi.org/10.1007/978-1-4757-4321-0>.

- Rumelhart, D. E., Hinton, G. E., and Williams R. J., 1986, Learning internal representations by error propagation, *Parallel distributed processing: explorations in the microstructure of cognition*, vol. 1: foundations, MIT Press, Cambridge, MA, USA, 318–362.
- Sharma, P., Chandan, S. and Agrawal, B.P., 2020, Vibration Signal-based Diagnosis of Defect Embedded in Outer Race of Ball Bearing using 1-D CNN, 2020 International Conference on Computational Performance Evaluation (ComPE), <https://doi.org/10.1109/compe49325.2020.9199994>.
- Singh, J. and Banerjee, R., 2019, A Study on Single and Multi-layer Perceptron Neural Network, 2019 3rd International Conference on Computing Methodologies and Communication (ICCMC), <https://doi.org/10.1109/iccmc.2019.8819775>.
- Soni, S., Dey, S. and Manikandan, M.S., 2019, Automatic Audio Event Recognition Schemes for Context-Aware Audio Computing Devices, 2019 Seventh International Conference on Digital Information Processing and Communications (ICDIPC), <https://doi.org/10.1109/icdipc.2019.8723713>.
- Srivastava, N., Hinton, G.E., Krizhevsky, A., Sutskever, I., & Salakhutdinov, R., 2014, Dropout: a simple way to prevent neural networks from overfitting, *J. Mach. Learn. Res.*, 15, 1929-1958.
- Wang, H., Liu, Z., Peng, D. and Qin, Y., 2020, Understanding and Learning Discriminant Features based on Multiattention 1DCNN for Wheelset Bearing Fault Diagnosis, *IEEE Transactions on Industrial Informatics*, <https://doi.org/10.1109/tii.2019.2955540>.
- Yan, J., Guo, X., Duan, S., Jia, P., Wang, L., Peng, C. and Zhang, S., 2015, Electronic Nose Feature Extraction Methods: A Review, *Sensors*, <https://doi.org/10.3390/s151127804>.
- Zhao, X., Sole-Casals, J., Li, B., Huang, Z., Wang, A., Cao, J., Tanaka, T. and Zhao, Q., 2020, Classification of Epileptic IEEG Signals by CNN and Data Augmentation, ICASSP 2020 - 2020 IEEE International Conference on Acoustics, Speech and Signal Processing (ICASSP), <https://doi.org/10.1109/icassp40776.2020.9052948>.
- Zhou, X., Tang, Z. and Qi, F., 2018, Identification of Black Tea Fermentation Degree Based on Convolutional Neural Network, 2018 International Conference on Intelligent Autonomous Systems (ICoIAS), <https://doi.org/10.1109/icoias.2018.8494051>.