DAFTAR PUSTAKA

[1] K. Holmqvist and R. Andersson, *Eye tracking: a comprehensive guide to methods, paradigms, and measures*, 2nd ed. Lund, Sweden: Lund Eye-Tracking Research Institute, 2017.

[2] M. Dorr, T. Martinetz, K. R. Gegenfurtner, and E. Barth, "Variability of eye movements when viewing dynamic natural scenes," *Journal of Vision*, vol. 10, no. 10, pp. 28–28, Aug. 2010. [Online]. Available: http://jov.arvojournals.org/Article.aspx?doi=10.1167/10.10.28

[3] O. V. Komogortsev and A. Karpov, "Automated classification and scoring of smooth pursuit eye movements in the presence of fixations and saccades," *Behavior Research Methods*, vol. 45, no. 1, pp. 203–215, Mar. 2013. [Online]. Available: http://link.springer.com/10.3758/s13428-012-0234-9

[4] N. M. Arar, "Robust Eye Tracking Based on Adaptive Fusion of Multiple Cameras," PhD Thesis, Sep. 2017.

[5] A. W. Kiwelekar, G. S. Mahamunkar, L. D. Netak, and V. B. Nikam, "Deep Learning Techniques for Geospatial Data Analysis," in *Machine Learning Paradigms*, G. A. Tsihrintzis and L. C. Jain, Eds. Cham: Springer International Publishing, 2020, vol. 18, pp. 63–81, series Title: Learning and Analytics in Intelligent Systems. [Online]. Available: http://link.springer.com/10.1007/978-3-030-49724-8_3

[6] R. C. Staudemeyer and E. R. Morris, "Understanding LSTM – a tutorial into Long Short-Term Memory Recurrent Neural Networks," 2019, publisher: arXiv Version Number: 1. [Online]. Available: https://arxiv.org/abs/1909.09586

[7] D. P. Kingma and J. Ba, "Adam: A Method for Stochastic Optimization," 2014, publisher: arXiv Version Number: 9. [Online]. Available: https://arxiv.org/abs/1412.6980

[8] A. Hidaka and T. Kurita, "Consecutive Dimensionality Reduction by Canonical Correlation Analysis for Visualization of Convolutional Neural Networks," in *Proceedings of the ISCIE International Symposium on Stochastic Systems Theory and its Applications*, vol. 2017, Dec. 2017, pp. 160–167.

[9] J. Yan, L. Mu, L. Wang, R. Ranjan, and A. Y. Zomaya, "Temporal Convolutional Networks for the Advance Prediction of ENSO," *Scientific Reports*, vol. 10, no. 1, p. 8055, May 2020. [Online]. Available: https://www.nature.com/articles/s41598-020-65070-5

[10] Z. Shang, B. Zhang, W. Li, S. Qian, and J. Zhang, "Machine remaining life prediction based on multi-layer self-attention and temporal convolution network," *Complex & Intelligent Systems*, vol. 8, Dec. 2021.

[11] J. Ashfaque Minstp Maat and A. Iqbal, "Introduction to Support Vector Machines and Kernel Methods," Apr. 2019.

[12] B. W. Matthews, "Comparison of the predicted and observed secondary structure of T4 phage lysozyme," *Biochimica et Biophysica Acta (BBA)-Protein Structure*, vol. 405, no. 2, pp. 442–451, 1975, publisher: Elsevier.

[13] B. Alojaiman, "Technological Modernizations in the Industry 5.0 Era: A Descriptive Analysis and Future Research Directions," *Processes*, vol. 11, no. 5, p. 1318, Apr. 2023. [Online]. Available: https://www.mdpi.com/2227-9717/11/5/1318

[14] X. Xu, Y. Lu, B. Vogel-Heuser, and L. Wang, "Industry 4.0 and Industry 5.0—Inception, conception and perception," *Journal of Manufacturing Systems*, vol. 61, pp. 530–535, Oct. 2021. [Online]. Available: https://linkinghub.elsevier.com/retrieve/pii/S0278612521002119

[15] H. O. Edughele, Y. Zhang, F. Muhammad-Sukki, Q.-T. Vien, H. Morris-Cafiero, and M. Opoku Agyeman, "Eye-Tracking Assistive Technologies for Individuals With Amyotrophic Lateral Sclerosis," *IEEE Access*, vol. 10, pp. 41 952–41 972, 2022. [Online]. Available: https://ieeexplore.ieee.org/document/9745906/

[16] C. Ware and H. H. Mikaelian, "An evaluation of an eye tracker as a device for computer input2," *ACM SIGCHI Bulletin*, vol. 17, no. SI, pp. 183–188, May 1986. [Online]. Available: https://dl.acm.org/doi/10.1145/30851.275627

[17] L. E. Sibert and R. J. K. Jacob, "Evaluation of eye gaze interaction," in *Proceedings of the SIGCHI conference on Human Factors in Computing Systems*. The Hague The Netherlands: ACM, Apr. 2000, pp. 281–288. [Online]. Available: https://dl.acm.org/doi/10.1145/332040.332445

[18] D. H. Koh, S. Munikrishne Gowda, and O. V. Komogortsev, "Real time eye movement identification protocol," in *CHI '10 Extended Abstracts on Human Factors in Computing Systems*. Atlanta Georgia USA: ACM, Apr. 2010, pp. 3499–3504. [Online]. Available: https://dl.acm.org/doi/10.1145/1753846.1754008

[19] M. Vidal, A. Bulling, and H. Gellersen, "Detection of smooth pursuits using eye movement shape features," in *Proceedings of the Symposium on Eye Tracking Research and Applications*. Santa Barbara California: ACM, Mar. 2012, pp. 177–180. [Online]. Available: https://dl.acm.org/doi/10.1145/2168556.2168586

[20] R. Zemblys, D. C. Niehorster, O. Komogortsev, and K. Holmqvist, "Using machine learning to detect events in eye-tracking data," *Behavior Research Methods*, vol. 50, no. 1, pp. 160–181, Feb. 2018. [Online]. Available: http://link.springer.com/10.3758/s13428-017-0860-3

[21] S. Hoppe and A. Bulling, "End-to-End Eye Movement Detection Using Convolutional Neural Networks," 2016, publisher: arXiv Version Number: 1. [Online]. Available: https://arxiv.org/abs/1609.02452

[22] M. Startsev, I. Agtzidis, and M. Dorr, "1D CNN with BLSTM for automated classification of fixations, saccades, and smooth pursuits," *Behavior Research Methods*, vol. 51, no. 2, pp. 556–572, Apr. 2019. [Online]. Available: http://link.springer.com/10.3758/s13428-018-1144-2

[23] C. Elmadjian, C. Gonzales, and C. H. Morimoto, "Eye Movement Classification with Temporal Convolutional Networks," in *Pattern Recognition. ICPR International Workshops and Challenges*, A. Del Bimbo, R. Cucchiara, S. Sclaroff, G. M. Farinella, T. Mei, M. Bertini, H. J. Escalante, and R. Vezzani, Eds. Cham: Springer International Publishing, 2021, vol. 12663, pp. 390–404, series Title: Lecture Notes in Computer Science. [Online]. Available: http://link.springer.com/10.1007/978-3-030-68796-0_28

[24] T. Yu and H. Zhu, "Hyper-Parameter Optimization: A Review of Algorithms and Applications," 2020, publisher: arXiv Version Number: 1. [Online]. Available: https://arxiv.org/abs/2003.05689

[25] G. Montavon, G. Orr, and K.-R. Müller, Eds., *Neural networks: tricks of the trade*, 2nd ed., ser. Lecture notes in computer science. Heidelberg: Springer, 2012, no. 7700, oCLC: ocn828098376.

[26] K. Eggensperger, "Towards an Empirical Foundation for Assessing Bayesian Optimization of Hyperparameters," 2013.

[27] L. Li, K. Jamieson, G. DeSalvo, A. Rostamizadeh, and A. Talwalkar, "Hyperband: A Novel Bandit-Based Approach to Hyperparameter Optimization," Jun. 2018, arXiv:1603.06560 [cs, stat]. [Online]. Available: http://arxiv.org/abs/1603.06560

[28] R. J. Leigh and D. S. Zee, *The Neurology of Eye Movements*, 5th ed. Oxford University Press, Jun. 2015. [Online]. Available: https://academic.oup.com/book/25280

[29] T. Santini, W. Fuhl, T. Kübler, and E. Kasneci, "Bayesian identification of fixations, saccades, and smooth pursuits," in *Proceedings of the Ninth Biennial ACM Symposium on Eye Tracking Research & Applications*. Charleston South Carolina: ACM, Mar. 2016, pp. 163–170. [Online]. Available: https://dl.acm.org/doi/10.1145/2857491.2857512

[30] A. T. Bahill, A. Brockenbrough, and B. T. Troost, "Variability and development of a normative data base for saccadic eye movements," *Investigative Ophthalmology & Visual Science*, vol. 21, no. 1 Pt 1, pp. 116–125, Jul. 1981.

[31] D. D. Salvucci and J. H. Goldberg, "Identifying fixations and saccades in eye-tracking protocols," in *Proceedings of the symposium on Eye tracking research & applications - ETRA '00*. Palm Beach Gardens, Florida, United States: ACM Press, 2000, pp. 71–78. [Online]. Available: http://portal.acm.org/citation.cfm?doid=355017.355028

[32] S. Wibirama, S. Murnani, N. A. Setiawan, and H. Nurlatifa, "A Survey of Event Detection Methods for Eye Movements Classification in Smooth-Pursuit-Based Interactive Applications," in *2020 International Symposium on Community-centric Systems (CcS)*. Hachioji, Tokyo, Japan: IEEE, Sep. 2020, pp. 1–6. [Online]. Available: https://ieeexplore.ieee.org/document/9231384/

[33] J. Pekkanen and O. Lappi, "A new and general approach to signal denoising and eye movement classification based on segmented linear regression,"

Scientific Reports, vol. 7, no. 1, p. 17726, Dec. 2017. [Online]. Available: https://www.nature.com/articles/s41598-017-17983-x

[34] J. M. Bernardo and A. F. M. Smith, *Bayesian theory*, ser. Wiley series in probability and mathematical statistics.   Chichester, Eng. ; New York: Wiley, 1994.

[35] R. Zemblys, "Eye-movement event detection meets machine learning," *BIOMEDI-CAL ENGINEERING 2016*, vol. 20, no. 1, 2017.

[36] S. Bai, J. Z. Kolter, and V. Koltun, "An Empirical Evaluation of Generic Convolutional and Recurrent Networks for Sequence Modeling," 2018, publisher: arXiv Version Number: 2. [Online]. Available: https://arxiv.org/abs/1803.01271

[37] A. Darwish, A. E. Hassanien, and S. Das, "A survey of swarm and evolutionary computing approaches for deep learning," *Artificial Intelligence Review*, vol. 53, no. 3, pp. 1767–1812, Mar. 2020. [Online]. Available: http://link.springer.com/10.1007/s10462-019-09719-2

[38] J. A. Vilensky, W. Robertson, and C. A. Suárez-Quian, Eds., *The clinical anatomy of the cranial nerves: the nerves of an old Olympus towering top*.   Ames, Iowa: Wiley Blackwell, 2015.

[39] J. N. Stember, H. Celik, D. Gutman, N. Swinburne, R. Young, S. Eskreis-Winkler, A. Holodny, S. Jambawalikar, B. J. Wood, P. D. Chang, E. Krupinski, and U. Bagci, "Integrating Eye Tracking and Speech Recognition Accurately Annotates MR Brain Images for Deep Learning: Proof of Principle," *Radiology: Artificial Intelligence*, vol. 3, no. 1, p. e200047, Jan. 2021. [Online]. Available: http://pubs.rsna.org/doi/10.1148/ryai.2020200047

[40] P. A. Punde, M. E. Jadhav, and R. R. Manza, "A study of eye tracking technology and its applications," in *2017 1st International Conference on Intelligent Systems and Information Management (ICISIM)*.   Aurangabad: IEEE, Oct. 2017, pp. 86–90. [Online]. Available: http://ieeexplore.ieee.org/document/8122153/

[41] J. M. Bland and D. G. Altman, "Statistics notes: Measurement error," *BMJ*, vol. 312, no. 7047, pp. 1654–1654, Jun. 1996. [Online]. Available: https://www.bmj.com/lookup/doi/10.1136/bmj.312.7047.1654

[42] T. F. Budinger and A. Brahme, Eds., *Comprehensive biomedical physics. Volume 1, Nuclear medicine and molecular imaging*.   Amsterdam: Elsevier, 2014, oCLC: 886540666.

[43] A. Graves, G. Wayne, and I. Danihelka, "Neural Turing Machines," 2014, publisher: arXiv Version Number: 2. [Online]. Available: https://arxiv.org/abs/1410.5401

[44] T. Hastie, R. Tibshirani, and J. H. Friedman, *The elements of statistical learning: data mining, inference, and prediction: with 200 full-color illustrations*, ser. Springer series in statistics.   New York: Springer, 2001.

[45] S. Ruder, "An overview of gradient descent optimization algorithms," Jun. 2017, arXiv:1609.04747 [cs]. [Online]. Available: http://arxiv.org/abs/1609.04747

[46] O. H. Rodriguez and J. M. Lopez Fernandez, "A semiotic reflection on the didactics of the Chain rule," *The Mathematics Enthusiast*, vol. 7, no. 2-3, pp. 321–332, Jul. 2010. [Online]. Available: https://scholarworks.umt.edu/tme/vol7/iss2/10

[47] K. Janocha and W. M. Czarnecki, "On Loss Functions for Deep Neural Networks in Classification," 2017, publisher: arXiv Version Number: 1. [Online]. Available: https://arxiv.org/abs/1702.05659

[48] S. Jadon, "A survey of loss functions for semantic segmentation," in *2020 IEEE Conference on Computational Intelligence in Bioinformatics and Computational Biology (CIBCB)*. Via del Mar, Chile: IEEE, Oct. 2020, pp. 1–7. [Online]. Available: https://ieeexplore.ieee.org/document/9277638/

[49] J. Wang, D. R. Salem, and R. K. Sani, "Two new exopolysaccharides from a thermophilic bacterium Geobacillus sp. WSUCF1: Characterization and bioactivities," *New Biotechnology*, vol. 61, pp. 29–39, Mar. 2021. [Online]. Available: https://linkinghub.elsevier.com/retrieve/pii/S1871678420301928

[50] C. M. Bishop, *Pattern Recognition and Machine Learning*, softcover reprint of the original 1st edition 2006 (corrected at 8th printing 2009) ed., ser. Information Science and Statistics. New York, NY: Springer New York, 2016.

[51] T. Hastie, R. Tibshirani, and J. Friedman, *The Elements of Statistical Learning*, ser. Springer Series in Statistics. New York, NY: Springer New York, 2009. [Online]. Available: http://link.springer.com/10.1007/978-0-387-84858-7

[52] Y. Tian, D. Su, S. Lauria, and X. Liu, "Recent advances on loss functions in deep learning for computer vision," *Neurocomputing*, vol. 497, pp. 129–158, Aug. 2022. [Online]. Available: https://linkinghub.elsevier.com/retrieve/pii/S0925231222005239

[53] U. R. Dr.A, "Binary cross entropy with deep learning technique for Image classification," *International Journal of Advanced Trends in Computer Science and Engineering*, vol. 9, no. 4, pp. 5393–5397, Aug. 2020. [Online]. Available: http://www.warse.org/IJATCSE/static/pdf/file/ijatcse175942020.pdf

[54] L. Deng, J. Li, J.-T. Huang, K. Yao, D. Yu, F. Seide, M. Seltzer, G. Zweig, X. He, J. Williams, Y. Gong, and A. Acero, "Recent advances in deep learning for speech research at Microsoft," in *2013 IEEE International Conference on Acoustics, Speech and Signal Processing*. Vancouver, BC, Canada: IEEE, May 2013, pp. 8604–8608. [Online]. Available: http://ieeexplore.ieee.org/document/6639345/

[55] K. Fukushima, "A neural network model for selective attention in visual pattern recognition," *Biological Cybernetics*, vol. 55, no. 1, pp. 5–15, Oct. 1986. [Online]. Available: http://link.springer.com/10.1007/BF00363973

[56] Y. LeCun, Y. Bengio, and G. Hinton, "Deep learning," *Nature*, vol. 521, no. 7553, pp. 436–444, May 2015. [Online]. Available: https://www.nature.com/articles/nature14539

[57] E. Lewinson, *Python for finance cookbook: over 80 powerful recipes for effective financial data analysis*, second edition ed. Birmingham Mumbai: Packt Publishing, 2022.

[58] R. M. Schmidt, "Recurrent Neural Networks (RNNs): A gentle Introduction and Overview," 2019, publisher: arXiv Version Number: 1. [Online]. Available: https://arxiv.org/abs/1912.05911

[59] Q. Qiu, Z. Xie, L. Wu, and W. Li, "DGeoSegmenter: A dictionary-based Chinese word segmenter for the geoscience domain," *Computers & Geosciences*, vol. 121, pp. 1–11, Dec. 2018. [Online]. Available: https://linkinghub.elsevier.com/retrieve/pii/S0098300418300852

[60] C. Lea, M. D. Flynn, R. Vidal, A. Reiter, and G. D. Hager, "Temporal Convolutional Networks for Action Segmentation and Detection," 2016, publisher: arXiv Version Number: 1. [Online]. Available: https://arxiv.org/abs/1611.05267

[61] F. Yu and V. Koltun, "Multi-Scale Context Aggregation by Dilated Convolutions," Apr. 2016, arXiv:1511.07122 [cs]. [Online]. Available: http://arxiv.org/abs/1511.07122

[62] C. Sun, J. Sharma, and M. Maiti, "Investigating the Relationship Between Dropout Regularization and Model Complexity in Neural Networks," Aug. 2021, arXiv:2108.06628 [cs]. [Online]. Available: http://arxiv.org/abs/2108.06628

[63] S. Salman and X. Liu, "Overfitting Mechanism and Avoidance in Deep Neural Networks," Jan. 2019, arXiv:1901.06566 [cs, stat]. [Online]. Available: http://arxiv.org/abs/1901.06566

[64] J. Lederer, "Activation Functions in Artificial Neural Networks: A Systematic Overview," 2021, publisher: arXiv Version Number: 1. [Online]. Available: https://arxiv.org/abs/2101.09957

[65] S. R. Dubey, S. K. Singh, and B. B. Chaudhuri, "Activation Functions in Deep Learning: A Comprehensive Survey and Benchmark," 2021, publisher: arXiv Version Number: 3. [Online]. Available: https://arxiv.org/abs/2109.14545

[66] P. M. Radiuk, "Impact of Training Set Batch Size on the Performance of Convolutional Neural Networks for Diverse Datasets," *Information Technology and Management Science*, vol. 20, no. 1, Jan. 2017. [Online]. Available: https://itms-journals.rtu.lv/article/view/itms-2017-0003

[67] S. Ioffe and C. Szegedy, "Batch Normalization: Accelerating Deep Network Training by Reducing Internal Covariate Shift," 2015, publisher: arXiv Version Number: 3. [Online]. Available: https://arxiv.org/abs/1502.03167

[68] S. Afaq and S. Rao, "Significance Of Epochs On Training A Neural Network," *International Journal of Scientific & Technology Research*, vol. 9, pp. 485–488, 2020.

[69] M.-A. Zöller and M. F. Huber, "Benchmark and Survey of Automated Machine Learning Frameworks," 2019, publisher: arXiv Version Number: 5. [Online]. Available: https://arxiv.org/abs/1904.12054

[70] R. Elshawi, M. Maher, and S. Sakr, "Automated Machine Learning: State-of-The-Art and Open Challenges," 2019, publisher: arXiv Version Number: 2. [Online]. Available: https://arxiv.org/abs/1906.02287

[71] N. DeCastro-García, L. Muñoz Castañeda, D. Escudero García, and M. V. Carriegos, "Effect of the Sampling of a Dataset in the Hyperparameter Optimization Phase over the Efficiency of a Machine Learning Algorithm," *Complexity*, vol. 2019, pp. 1–16, Feb. 2019. [Online]. Available: https://www.hindawi.com/journals/complexity/2019/6278908/

[72] S. S. Olof, "A Comparative Study of Black-box Optimization Algorithms for Tuning of Hyper-parameters in Deep Neural Networks," 2018.

[73] J. Bergstra, R. Bardenet, Y. Bengio, and B. Kégl, "Algorithms for Hyper-Parameter Optimization," in *Advances in Neural Information Processing Systems*, J. Shawe-Taylor, R. Zemel, P. Bartlett, F. Pereira, and K. Q. Weinberger, Eds., vol. 24. Curran Associates, Inc., 2011. [Online]. Available: https://proceedings.neurips.cc/paper_files/paper/2011/file/86e8f7ab32cfd12577bc2619bc635690-Paper.pdf

[74] J. Bergstra and Y. Bengio, "Random Search for Hyper-Parameter Optimization," *J. Mach. Learn. Res.*, vol. 13, no. null, pp. 281–305, Feb. 2012, publisher: JMLR.org.

[75] J. Wang, J. Xu, and X. Wang, "Combination of Hyperband and Bayesian Optimization for Hyperparameter Optimization in Deep Learning," 2018, publisher: arXiv Version Number: 1. [Online]. Available: https://arxiv.org/abs/1801.01596

[76] M. Sokolova, N. Japkowicz, and S. Szpakowicz, "Beyond Accuracy, F-Score and ROC: A Family of Discriminant Measures for Performance Evaluation," in *AI 2006: Advances in Artificial Intelligence*, D. Hutchison, T. Kanade, J. Kittler, J. M. Kleinberg, F. Mattern, J. C. Mitchell, M. Naor, O. Nierstrasz, C. Pandu Rangan, B. Steffen, M. Sudan, D. Terzopoulos, D. Tygar, M. Y. Vardi, G. Weikum, A. Sattar, and B.-h. Kang, Eds. Berlin, Heidelberg: Springer Berlin Heidelberg, 2006, vol. 4304, pp. 1015–1021, series Title: Lecture Notes in Computer Science. [Online]. Available: http://link.springer.com/10.1007/11941439_114

[77] H. Dalianis, "Evaluation Metrics and Evaluation," in *Clinical Text Mining*. Cham: Springer International Publishing, 2018, pp. 45–53. [Online]. Available: http://link.springer.com/10.1007/978-3-319-78503-5_6

[78] S. Yadav and S. Shukla, "Analysis of k-Fold Cross-Validation over Hold-Out Validation on Colossal Datasets for Quality Classification," in *2016 IEEE 6th International Conference on Advanced Computing (IACC)*. Bhimavaram, India: IEEE, Feb. 2016, pp. 78–83. [Online]. Available: http://ieeexplore.ieee.org/document/7544814/

[79] R. Kohavi, "A Study of Cross-Validation and Bootstrap for Accuracy Estimation and Model Selection," vol. 14, Mar. 2001.

[80] G. I. Webb, C. Sammut, C. Perlich, T. Horváth, S. Wrobel, K. B. Korb, W. S. Noble, C. Leslie, M. G. Lagoudakis, N. Quadrianto, W. L. Buntine, N. Quadrianto, W. L. Buntine, L. Getoor, G. Namata, L. Getoor, X. J. Han, Jiawei, J.-A. Ting, S. Vijayakumar, S. Schaal, and L. D. Raedt, "Leave-One-Out Cross-Validation," in *Encyclopedia of Machine Learning*, C. Sammut and G. I. Webb, Eds. Boston, MA: Springer US, 2011, pp. 600–601. [Online]. Available: http://link.springer.com/10.1007/978-0-387-30164-8_469

[81] T.-T. Wong, "Performance evaluation of classification algorithms by k-fold and leave-one-out cross validation," *Pattern Recognition*, vol. 48, no. 9, pp. 2839–2846, Sep. 2015. [Online]. Available: https://linkinghub.elsevier.com/retrieve/pii/S0031320315000989