

DAFTAR PUSTAKA

- Albawi, Saad, Tareq Abed Mohammed and Saad Al-Zawi. 2017. "Understanding of a Convolutional Neural Network". In: . *2017 International Conference on Engineering and Technology (ICET)*. IEEE. 1–6. <<https://doi.org/10.1109/ICEngTechnol.2017.8308186>>.
- Alotaibi, Aziz. 2025. "Ensemble Deep Learning Approaches in Health Care: A Review". *Computers, Materials & Continua* 82: 3741–3771. <<https://doi.org/10.32604/cmc.2025.061998>>.
- Apuke, Oberiri Destiny. 2017. "Quantitative Research Methods : A Synopsis Approach". *Kuwait Chapter of Arabian Journal of Business and Management Review* 6: 40–47. <<https://doi.org/10.12816/0040336>>.
- Arafin, Palisa, AHM Muntasir Billah and Anas Issa. 2024. "Deep Learning-Based Concrete Defects Classification and Detection Using Semantic Segmentation". *Structural Health Monitoring* 23: 383–409. <<https://doi.org/10.1177/14759217231168212>>.
- Arya, Deeksha, Hiroya Maeda, Sanjay Ghosh, Durga Toshniwal, Alexander Mraz, Takehiro Kashiyama and Yoshihide Sekimoto. 2020. "Transfer Learning-Based Road Damage Detection for Multiple Countries". <<https://doi.org/10.48550/arXiv.2008.13101>>.
- Asmara, Dimas Tri, Rudi Hari Murti, Arman Wijonarko and Enik Nurlaili Afifah. 2021. "Evaluation of Resistant Tea (*Camellia Sinensis* L.) Clones Against *Helopeltis Bradyi*". *AGRIVITA Journal of Agricultural Science* 43. <<https://doi.org/10.17503/agrivita.v43i3.2557>>.
- Balasundaram, Ananthakrishnan, Prem Sundaresan, Aryan Bhavsar, Mishti Mattu, Muthu Subash Kavitha and Ayesha Shaik. 2025. "Tea Leaf Disease Detection Using Segment Anything Model and Deep Convolutional Neural Networks". *Results in Engineering* 25: 103784. <<https://doi.org/10.1016/j.rineng.2024.103784>>.
- Bao, Wenxia, Tao Fan, Gensheng Hu, Dong Liang and Haidong Li. 2022. "Detection and Identification of Tea Leaf Diseases Based on AX-RetinaNet". *Scientific Reports* 12: 2183. <<https://doi.org/10.1038/s41598-022-06181-z>>.
- Bengio, Yoshua. 2012. "Practical Recommendations for Gradient-Based Training of Deep Architectures". In: . 437–478. <https://doi.org/10.1007/978-3-642-35289-8_26>.
- Bishop, Christopher M and Nasser M Nasrabadi. 2006. *Pattern Recognition and Machine Learning*. Vol. 4. Springer.
- Chakrabarty, Navoneel. 2019. "A Novel Strategy for Gender Identification from Hand Dorsal Images Using Computer Vision". In: . *2019 3rd International Conference on Computing Methodologies and Communication (ICCMC)*. IEEE. 108–113. <<https://doi.org/10.1109/ICCMC.2019.8819804>>.
- Dacosta, Custodio and Xavier Agiar. 2018. "ANALISIS DAYA SAING KOMODITAS KOPI SEBAGAI PRODUK UNGGULAN EKSPOR NEGARA REPÚBLICA DEMOCRÁTICA DE TIMOR-LESTE (RDTL) DI PASAR INTERNASIONAL". Jakarta. <<https://repository.uinjkt.ac.id/dspace/handle/123456789/61350>> [accessed 6 April 2025].

- Datta, Saikat and Nitin Gupta. 2023. "A Novel Approach For the Detection of Tea Leaf Disease Using Deep Neural Network". *Procedia Computer Science* 218: 2273–2286. <<https://doi.org/10.1016/j.procs.2023.01.203>>.
- Deng, Jia, Wei Dong, Richard Socher, Li-Jia Li, Kai Li and Li Fei-Fei. 2009. "Imagenet: A Large-Scale Hierarchical Image Database". In: . *2009 IEEE Conference on Computer Vision and Pattern Recognition*. 248–255.
- Dumoulin, Vincent and Francesco Visin. 2018. "A Guide to Convolution Arithmetic for Deep Learning". <<https://arxiv.org/abs/1603.07285>>.
- Eskundari, Ratna. 2020. "BIOMA : JURNAL BIOLOGI MAKASSAR (ON LINE) Volume 5 (2) : 121 -130, Juli -Desember 2020 BUDIDAYA JARINGAN TANAMAN TEH DI INDONESIA TEA'S TISSUE CULTURE IN INDONESIA", July. <<https://doi.org/10.20956/bioma.v5i2.9791>>.
- Gao, Zeyu, Pargorn Puttapirat, Jiangbo Shi and Chen Li. 2020. "Renal Cell Carcinoma Detection and Subtyping with Minimal Point-Based Annotation in Whole-Slide Images". <<https://arxiv.org/abs/2008.05332>>.
- Gonzalez, Rafael C. 2009. *Digital Image Processing*. Pearson education india.
- Hayat, Khizar, Hira Iqbal, Uzma Malik, Uzma Bilal and Sobia Mushtaq. 2015. "Tea and Its Consumption: Benefits and Risks". *Critical Reviews in Food Science and Nutrition* 55: 939–954. <<https://doi.org/10.1080/10408398.2012.678949>>.
- Jähne, Bernd. 2005. *Digital Image Processing*. Springer Science & Business Media.
- Jain, Anil K. 1989. *Fundamentals of Digital Image Processing*. Prentice-Hall, Inc.
- Kamath, Vinayaka, Vishal S and Varun Manjunath. 2020. "Transferred Fusion Learning Using Skipped Networks". <<https://doi.org/10.48550/arXiv.2011.05895>>.
- Keith, Lisa M, Wen-hsiung Ko and Dwight M Sato. 2006. "Identification Guide for Diseases of Tea (Camellia Sinensis)". In: . <<https://api.semanticscholar.org/CorpusID:82320198>>.
- Kingma, Diederik P and Jimmy Ba. 2014. "Adam: A Method for Stochastic Optimization". *ArXiv Preprint ArXiv:1412.6980*.
- LeCun, Yann, Yoshua Bengio and Geoffrey Hinton. 2015. "Deep Learning". *Nature* 521: 436–444. <<https://doi.org/10.1038/nature14539>>.
- LeCun, Yann, Léon Bottou, Yoshua Bengio and Patrick Haffner. 1998. "Gradient-Based Learning Applied to Document Recognition". *Proceedings of the IEEE* 86: 2278–2324.
- Lehmann-Danzinger, Heinrich. 2000. "Diseases and Pests of Tea: Overview and Possibilities of Integrated Pest and Disease Management". *Journal of Agriculture and Rural Development in the Tropics and Subtropics* 101: 13–38.
- Li, Ji and Chenyi Liao. 2025. "Tea Disease Recognition Based on Image Segmentation and Data Augmentation". *IEEE Access* 13: 19664–19677. <<https://doi.org/10.1109/ACCESS.2025.3534024>>.
- Lin Tsung-Yi and Maire, Michael and Belongie Serge and Hays James and Perona Pietro and Ramanan Deva and Dollár Piotr and Zitnick C Lawrence. 2014. "Microsoft COCO: Common Objects in Context". In: Tomas and Schiele Bernt and Tuytelaars Tinne Fleet David and Pajdla (ed.). *Computer Vision – ECCV 2014*. Cham: Springer International Publishing. 740–755.

- Loaiza, Karen. 2020. "Deep Learning for Decision Support in Dermatology". <<https://doi.org/10.13140/RG.2.2.14692.60800>>.
- Meng, Shulin, Shuguang Wang, Tao Zhou and Jiankun Shen. 2020. "Identification of Tea Red Leaf Spot and Tea Red Scab Based on Hybrid Feature Optimization". *Journal of Physics: Conference Series* 1486: 52023. <<https://doi.org/10.1088/1742-6596/1486/5/052023>>.
- Mukhopadhyay, Somnath, Munti Paul, Ramen Pal and Debashis De. 2021. "Tea Leaf Disease Detection Using Multi-Objective Image Segmentation". *Multimedia Tools and Applications* 80: 753–771. <<https://doi.org/10.1007/s11042-020-09567-1>>.
- Mutasar, Mutasar, Chaeroen Niesa and others. 2025. "COMBINATION OF LEARNING VECTOR QUANTIZATION AND LINEAR DISCRIMINANT ANALYSIS FOR TEA LEAF DISEASE CLASSIFICATION". *JITK (Jurnal Ilmu Pengetahuan Dan Teknologi Komputer)* 10: 600–608.
- Nourbakhsh, Zahra and Narges Habibi. 2023. "Combining LSTM and CNN Methods and Fundamental Analysis for Stock Price Trend Prediction". *Multimedia Tools and Applications* 82: 17769–17799. <<https://doi.org/10.1007/s11042-022-13963-0>>.
- Otsu, Nobuyuki and others. 1975. "A Threshold Selection Method from Gray-Level Histograms". *Automatica* 11: 23–27.
- Pan, SJ—Yang. 2010. "Q.: A Survey on Transfer Learning". *IEEE Transactions on Knowledge and Data Engineering* 22: 1345–1359.
- Podareanu, Damian, Valeriu Codreanu, Sandra Aigner, Caspar Leeuwen and Volker Weinberg. 2019. "Best Practice Guide - Deep Learning". <<https://doi.org/10.13140/RG.2.2.31564.05769>>.
- Powers, David M W. 2020. "Evaluation: From Precision, Recall and F-Measure to ROC, Informedness, Markedness and Correlation". *ArXiv Preprint ArXiv:2010.16061*.
- Prasanth, Mani Iyer, Bhagavathi Sundaram Sivamaruthi, Chaiyavat Chaiyasut and Tewin Tencomnao. 2019. "A Review of the Role of Green Tea (*Camellia Sinensis*) in Antiphotaging, Stress Resistance, Neuroprotection, and Autophagy". *Nutrients* 11: 474. <<https://doi.org/10.3390/nu11020474>>.
- Premkumar, R, D Ajay and N Muraleedharan. 2009. "Biological Control of Tea Diseases-A Review". *Role of Biocontrol Agents for Disease Management in Sustainable Agriculture. Research India Publications, New Delhi, India*, 223–230.
- Pressman, Roger. 2014. "Software Engineering: A Practitioner's Approach". <www.mhhe.com/pressman>.
- PRIBADI, ARIF. 2024. "PENERAPAN METODE CONVOLUTIONAL NEURAL NETWORK MENGGUNAKAN ARSITEKTUR VGG19 PADA KLASIFIKASI PENYAKIT DAUN TEH". UPN" Veteran" Yogyakarta. <<http://eprints.upnyk.ac.id/id/eprint/38959>> [accessed 6 April 2025].
- Rahim, Mohd, Alireza Norouzi, Ismail Amin and Abdolvahab Ehsani Rad. 2015. "Current Methods in Medical Image Segmentation and Its Application on Knee Bone", April.
- Ramdan, Ade, Endang Suryawati, R. Budiarianto Suryo Kusumo, Hilman F. Pardede, Oka Mahendra, Rico Dahlan, Fani Fauziah and Heri Syahrian. 2019. "Deep CNNBased

- Detection for Tea Clone Identification”. *Jurnal Elektronika Dan Telekomunikasi* 19: 45. <<https://doi.org/10.14203/jet.v19.45-50>>.
- Ramesh, S. and D. Vydeki. 2020. “Recognition and Classification of Paddy Leaf Diseases Using Optimized Deep Neural Network with Jaya Algorithm”. *Information Processing in Agriculture* 7: 249–260. <<https://doi.org/10.1016/j.inpa.2019.09.002>>.
- Rezgui, Zohra. 2019. “Rapport de Stage: Détection et Classification de Visages Pour La Description de l’égalité Femme-Homme Dans Les Archives Télévisuelles”. <<https://doi.org/10.13140/RG.2.2.25957.76005>>.
- Roboflow. n.d. “Introduction to Roboflow Annotate”. Roboflow Docs. accessed May 25, 2025 <<https://docs.roboflow.com/annotate/annotation-tools>> [accessed 25 May 2025].
- Ronauli, Marcella and Sudarsana Arka. 2024. “PENGARUH PRODUKSI, LUAS AREAL LAHAN, KURS DOLAR AS, DAN KRISIS EKONOMI GLOBAL TERHADAP VOLUME EKSPOR TEH INDONESIA TAHUN 1987-2022”. *Jurnal Review Pendidikan dan Pengajaran* 7. <<https://journal.universitaspahlawan.ac.id/index.php/jrpp/article/view/31085/21359>> [accessed 6 April 2025].
- Roy, Somnath, Narayanannair Muraleedharan, Ananda Mukhapadhyay and Gautam Handique. 2015. “The Tea Mosquito Bug, *Helopeltis Theivora* Waterhouse (Heteroptera: Miridae): Its Status, Biology, Ecology and Management in Tea Plantations”. *International Journal of Pest Management* 61: 179–197. <<https://doi.org/10.1080/09670874.2015.1030002>>.
- Scherer, Dominik, Andreas Müller and Sven Behnke. 2010. “Evaluation of Pooling Operations in Convolutional Architectures for Object Recognition”. In: . 92–101. <https://doi.org/10.1007/978-3-642-15825-4_10>.
- Schmidhuber, Jürgen. 2015. “Deep Learning in Neural Networks: An Overview”. *Neural Networks* 61: 85–117. <<https://doi.org/10.1016/j.neunet.2014.09.003>>.
- Setiawan, Wahyudi. 2019. “Perbandingan Arsitektur Convolutional Neural Network Untuk Klasifikasi Fundus”. *Jurnal Simantec* 7: 48–53.
- Shelhamer, Evan, Jonathan Long and Trevor Darrell. 2016. “Fully Convolutional Networks for Semantic Segmentation”. *IEEE Transactions on Pattern Analysis and Machine Intelligence* 39: 640–651.
- Simonyan, Karen and Andrew Zisserman. 2014. “Very Deep Convolutional Networks for Large-Scale Image Recognition”. *ArXiv Preprint ArXiv:1409.1556*.
- Sonka, Milan, Vaclav Hlavac and Roger Boyle. 2013. *Image Processing, Analysis and Machine Vision*. Springer.
- SUN, Xiaoxiao, Shaomin MU, Yongyu XU, Zhihao CAO and Tingting SU. 2018. “Image Recognition of Tea Leaf Diseases Based on Convolutional Neural Network”. In: . *2018 International Conference on Security, Pattern Analysis, and Cybernetics (SPAC)*. IEEE. 304–309. <<https://doi.org/10.1109/SPAC46244.2018.8965555>>.
- Szeliski, Richard. 2022. *Computer Vision: Algorithms and Applications*. Springer Nature.
- Tan, Mingxing, Bo Chen, Ruoming Pang, Vijay Vasudevan, Mark Sandler, Andrew Howard and Quoc V Le. 2019. “Mnasnet: Platform-Aware Neural Architecture Search for

- Mobile”. In: . *Proceedings of the IEEE/CVF Conference on Computer Vision and Pattern Recognition*. 2820–2828.
- Tiwari, Divyansh, Mritunjay Ashish, Nitish Gangwar, Abhishek Sharma, Suhanshu Patel and Suyash Bhardwaj. 2020. “Potato Leaf Diseases Detection Using Deep Learning”. In: . *2020 4th International Conference on Intelligent Computing and Control Systems (ICICCS)*. 461–466. <<https://doi.org/10.1109/ICICCS48265.2020.9121067>>.
- Wulandari, Riska and Soraya Rahmanisa. 2016. “Pengaruh Ekstrak Teh Hijau Terhadap Penurunan Berat Badan Pada Remaja”. *Medical Journal of Lampung University [MAJORITY]* 5: 106–111.
- Xu, Shanyong, Jicheng Deng, Yourui Huang, Liuyi Ling and Tao Han. 2022. “Research on Insulator Defect Detection Based on an Improved MobilenetV1-YOLOv4”. *Entropy* 24: 1588. <<https://doi.org/10.3390/e24111588>>.
- Yang, Lin, Yizhe Zhang, Jianxu Chen, Siyuan Zhang and Danny Z Chen. 2017. “Suggestive Annotation: A Deep Active Learning Framework for Biomedical Image Segmentation”. <<https://arxiv.org/abs/1706.04737>>.
- Yosinski, Jason, Jeff Clune, Yoshua Bengio and Hod Lipson. 2014. “How Transferable Are Features in Deep Neural Networks?” *Advances in Neural Information Processing Systems* 27.
- Zhang, Qingchen, Laurence T. Yang, Zhikui Chen and Peng Li. 2018. “A Survey on Deep Learning for Big Data”. *Information Fusion* 42: 146–157. <<https://doi.org/10.1016/j.inffus.2017.10.006>>.
- Zhang, Zhenxi, Jie Li, Zhusi Zhong, Zhicheng Jiao and Xinbo Gao. 2019. “A Sparse Annotation Strategy Based on Attention-Guided Active Learning for 3D Medical Image Segmentation”. <<https://arxiv.org/abs/1906.07367>>.
- Zhang, Zhilu and Mert Sabuncu. 2018. “Generalized Cross Entropy Loss for Training Deep Neural Networks with Noisy Labels”. *Advances in Neural Information Processing Systems* 31.
- Zheng, Yufeng, Clifford Yang and Aleksey Merkulov. 2018. “Breast Cancer Screening Using Convolutional Neural Network and Follow-up Digital Mammography”. In: . 4. <<https://doi.org/10.1117/12.2304564>>.
- Zhuang, Fuzhen, Zhiyuan Qi, Keyu Duan, Dongbo Xi, Yongchun Zhu, Hengshu Zhu, Hui Xiong and Qing He. 2020. “A Comprehensive Survey on Transfer Learning”. *Proceedings of the IEEE* 109: 43–76.