

REFERENCES

- [1] W. A. A. Kustiana *et al.*, "Bridge Damage Detection with Support Vector Machine in Accelerometer-Based Wireless Sensor Network," *Journal of Vibration Engineering and Technologies*, Dec. 2024, doi: 10.1007/s42417-024-01400-5.
- [2] H. Nigam, A. Karmakar, and A. K. Saini, "Wireless Sensor Network Based Structural Health Monitoring for Multistory Building," *4th International Conference on Computer, Communication and Signal Processing, ICCSP 2020*, Sep. 2020, doi: 10.1109/ICCSP49186.2020.9315201.
- [3] D. Chen *et al.*, "QoS analysis of WSN (Wireless Sensor Network) using node MCU and accelerometer sensors on bridge monitoring systems," *IOP Conf Ser Mater Sci Eng*, vol. 1108, no. 1, p. 012025, Mar. 2021, doi: 10.1088/1757-899X/1108/1/012025.
- [4] K. Gulati, R. S. Kumar Boddu, D. Kapila, S. L. Bangare, N. Chandnani, and G. Saravanan, "A review paper on wireless sensor network techniques in Internet of Things (IoT)," in *Materials Today: Proceedings*, Elsevier Ltd, 2021, pp. 161–165. doi: 10.1016/j.matpr.2021.05.067.
- [5] M. Abdulkarem, K. Samsudin, F. Z. Rokhani, and M. F. A. Rasid, "Wireless sensor network for structural health monitoring: A contemporary review of technologies, challenges, and future direction," *Struct Health Monit*, vol. 19, no. 3, pp. 693–735, May 2020, doi: 10.1177/1475921719854528.
- [6] S. A. Putra, B. R. Trilaksono, M. Riyansyah, D. S. Laila, A. Harsoyo, and A. I. Kistijantoro, "Intelligent sensing in multiagent-based wireless sensor network for bridge condition monitoring system," *IEEE Internet Things J*, vol. 6, no. 3, pp. 5397–5410, Jun. 2019, doi: 10.1109/JIOT.2019.2901796.
- [7] F. M. Bono *et al.*, "Wireless Accelerometer Architecture for Bridge SHM: From Sensor Design to System Deployment," Dec. 06, 2024, doi: 10.20944/preprints202412.0642.v1.
- [8] A. A. Hapsari, E. Supriyanto, A. Hasan, and A. Suharjono, "Accelerometer sensor data analysis of bridge structural health monitoring system," *IOP Conf Ser Mater Sci Eng*, vol. 1108, no. 1, p. 012026, Mar. 2021, doi: 10.1088/1757-899X/1108/1/012026.
- [9] S. Zong, S. Wang, Z. Luo, X. Wu, H. Zhang, and Z. Ni, "Robust Damage Detection and Localization Under Complex Environmental Conditions Using Singular Value Decomposition-based Feature Extraction and One-dimensional Convolutional Neural Network," *Chinese Journal of Mechanical Engineering (English Edition)*, vol. 36, no. 1, Dec. 2023, doi: 10.1186/s10033-023-00889-3.
- [10] N. S. Gulgec, M. Takáč, and S. N. Pakzad, "Convolutional Neural Network Approach for Robust Structural Damage Detection and Localization," *Journal of Computing in Civil Engineering*, vol. 33, no. 3, p. 04019005, Jan. 2019, doi: 10.1061/(ASCE)CP.1943-5487.0000820.
- [11] M. Kohiyama, K. Oka, and T. Yamashita, "Detection method of unlearned pattern using support vector machine in damage classification based on deep neural network," *Struct Control Health Monit*, vol. 27, no. 8, Aug. 2020, doi: 10.1002/stc.2552.
- [12] D. Bui-Ngoc, H. Nguyen-Tran, L. Nguyen-Ngoc, H. Tran-Ngoc, T. Bui-Tien, and H. Tran-Viet, "Damage detection in structural health monitoring using hybrid convolution neural network and recurrent neural network," *Frattura ed Integrità Strutturale*, vol. 16, no. 59, pp. 461–470, Jan. 2022, doi: 10.3221/IGF-ESIS.59.30.
- [13] H. HoThu and A. Mita, "Damage Detection Method Using Support Vector Machine and First Three Natural Frequencies for Shear Structures," *Open Journal of Civil Engineering*, vol. 03, no. 02, pp. 104–112, 2013, doi: 10.4236/ojce.2013.32012.
- [14] Y. Zhang and K. V. Yuen, "Review of artificial intelligence-based bridge damage detection," Sep. 01, 2022, *SAGE Publications Inc*. doi: 10.1177/16878132221122770.
- [15] S. Teng, G. Chen, P. Gong, G. Liu, and F. Cui, "Structural damage detection using convolutional neural networks combining strain energy and dynamic response," *Meccanica*, vol. 55, no. 4, pp. 945–959, Apr. 2020, doi: 10.1007/s11012-019-01052-w.
- [16] J. Wu, X. Xu, C. Liu, C. Deng, and X. Shao, "Lamb wave-based damage detection of composite structures using deep convolutional neural network and continuous wavelet transform," 2021.
- [17] M. Rautela and S. Gopalakrishnan, "Ultrasonic guided wave based structural damage detection and localization using model assisted convolutional and recurrent neural networks," *Expert Syst Appl*, vol. 167, Apr. 2021, doi: 10.1016/j.eswa.2020.114189.
- [18] V. L. Tran, T. C. Vo, and T. Q. Nguyen, "One-dimensional convolutional neural network for damage detection of structures using time series data," *Asian Journal of Civil Engineering*, vol. 25, no. 1, pp. 827–860, Jan. 2024, doi: 10.1007/s42107-023-00816-w.
- [19] C. Feng, H. Zhang, S. Wang, Y. Li, H. Wang, and F. Yan, "Structural Damage Detection using Deep Convolutional Neural Network and Transfer Learning," *KSCE Journal of Civil Engineering*, vol. 23, no. 10, pp. 4493–4502, Oct. 2019, doi: 10.1007/s12205-019-0437-z.
- [20] J.-J. Lee and C.-B. Yun, "Damage localization for bridges using probabilistic neural networks," *KSCE Journal of Civil Engineering*, vol. 11, no. 2, pp. 111–120, Mar. 2007, doi: 10.1007/bf02823854.
- [21] J. Yoon, J. Lee, G. Kim, S. Ryu, and J. Park, "Deep neural network-based structural health monitoring technique for real-time crack detection and localization using strain gauge sensors," *Sci Rep*, vol. 12, no. 1, Dec. 2022, doi: 10.1038/s41598-022-24269-4.