

DAFTAR PUSTAKA

- Aker, C. dan Kalkan, S., 2017, Using deep networks for drone detection, *2017 14th IEEE International Conference on Advanced Video and Signal Based Surveillance, AVSS 2017*, [Online] (August), tersedia di DOI:10.1109/AVSS.2017.8078539.
- Al-Emadi, S., Al-Ali, A., Mohammad, A. dan Al-Ali, A., 2019, Audio based drone detection and identification using deep learning, *2019 15th International Wireless Communications and Mobile Computing Conference, IWCMC 2019*, [Online] 459–464, tersedia di DOI:10.1109/IWCMC.2019.8766732.
- Al-Sa'd, M.F., Al-Ali, A., Mohamed, A., Khattab, T. dan Erbad, A., 2019, RF-based drone detection and identification using deep learning approaches: An initiative towards a large open source drone database, *Future Generation Computer Systems*, [Online] 10086–97, tersedia di DOI:10.1016/j.future.2019.05.007.
- Allahham, M.S., Khattab, T. dan Mohamed, A., 2020, Deep Learning for RF-Based Drone Detection and Identification: A Multi-Channel 1-D Convolutional Neural Networks Approach, *2020 IEEE International Conference on Informatics, IoT, and Enabling Technologies, ICIoT 2020*, [Online] 112–117, tersedia di DOI:10.1109/ICIoT48696.2020.9089657.
- Anderson, K.D., 1995, Radar detection of low-altitude targets in a maritime environment, *IEEE transactions on antennas and propagation*, 43 (6), 609–613.
- Andraši, P., Radišić, T., Muštra, M. dan Ivošević, J., 2017, Night-time Detection of UAVs using Thermal Infrared Camera, *Transportation Research Procedia*, [Online] 28183–190, tersedia di DOI:10.1016/j.trpro.2017.12.184.
- Anonim, 2020, Elvira Anti Drone Systems, [Online], tersedia di <https://www.robinradar.com/elvira-anti-drone-system>, diakses 28 Juli 2020.
- Anonim, 2011, Massachusetts Man Charged with Plotting Attack on Pentagon and U.S. Capitol and Attempting to Provide Material Support to a Foreign Terrorist Organization, [Online], tersedia di <https://archives.fbi.gov/archives/boston/press-releases/2011/massachusetts-man-charged-with-plotting-attack-on-pentagon-and-u.s.-capitol-and-attempting-to-provide-material-support-to-a-foreign-terrorist-organization>, diakses 28 September 2011.
- Anonim, 2019, Two Major Saudi Oil Installations Hit by Drone Strike, and U.S. Blames Iran, [Online], tersedia di <https://www.nytimes.com/2019/09/14/world/middleeast/saudi-arabia-refineries-drone-attack.html>, diakses 14 September 2019.
- Banerjee, T.P. dan Das, S., 2012, Multi-sensor data fusion using support vector machine for motor fault detection, *Information Sciences*, [Online] 21796–107, tersedia di DOI:10.1016/j.ins.2012.06.016.

- Baron, V., Bouley, S., Muschinowski, M., Mars, J. dan Nicolas, B., 2019, Drone localization and identification using an acoustic array and supervised learning, *Artificial Intelligence and Machine Learning in Defense Applications*, 2019 International Society for Optics and Photonics., Vol. 11169, Hal. 129-137. SPIE.
- Benesty, J., Chen, J. dan Huang, Y., 2008, *Microphone array signal processing*, Springer Science & Business Media. Vol. 1.
- Bernardini, A., Mangiatordi, F., Pallotti, E. dan Capodiferro, L., 2017, Drone detection by acoustic signature identification, *IS and T International Symposium on Electronic Imaging Science and Technology*, [Online] 60–64, tersedia di DOI:10.2352/ISSN.2470-1173.2017.10.IMAWM-168.
- Boström, H., Andler, S.F., Brohede, M., Johansson, R., Karlsson, A., Laere, J. Van, Niklasson, L., Nilsson, M., Persson, A. dan Ziemke, T., 2007, On the Definition of Information Fusion as a Field of Research, *IKI Technical Reports*, [Online] 1–8, tersedia di DOI:HS-IKI-TR-07-006.
- Busset, J., Perrodin, F., Wellig, P., Ott, B., Heutschi, K., Rühl, T. dan Nussbaumer, T., 2015, Detection and tracking of drones using advanced acoustic cameras, *Unmanned/Unattended Sensors and Sensor Networks XI; and Advanced Free-Space Optical Communication Techniques and Applications*, [Online] 964796470F, tersedia di DOI:10.1117/12.2194309.
- Caris, M., Johannes, W., Stanko, S. dan Pohl, N., 2015, Millimeter wave radar for perimeter surveillance and detection of MAVs (Micro Aerial Vehicles), *Proceedings International Radar Symposium*, [Online] 2015-August 284–287, tersedia di DOI:10.1109/IRS.2015.7226314.
- Casabianca, P. dan Zhang, Y., 2021, Acoustic-based UAV detection using late fusion of deep neural networks, *Drones* 5.3, 2021. Hal. 54, [Online] tersedia di DOI:10.3390/drones5030054.
- Case, E.E., Zelnio, A.M. dan Rigling, B.D., 2008, Low-cost acoustic array for small UAV detection and tracking, *National Aerospace and Electronics Conference, Proceedings of the IEEE*, [Online] 110–113, tersedia di DOI:10.1109/NAECON.2008.4806528.
- Cerutti, G., Prasad, R., Brutti, A. dan Farella, E., 2020, Compact recurrent neural networks for acoustic event detection on low-energy low-complexity platforms, *IEEE Journal of Selected Topics in Signal Processing*, 14 (4), 654–664.
- Chakrabarty, S. dan Habets, E.A.P., 2017, Broadband doa estimation using convolutional neural networks trained with noise signals, *IEEE Workshop on Applications of Signal Processing to Audio and Acoustics*, [Online] 2017-October 136–140, tersedia di DOI:10.1109/WASPAA.2017.8170010.
- Chang, X., Yang, C., Wu, J., Shi, X. dan Shi, Z., 2018, A Surveillance System for Drone Localization and Tracking Using Acoustic Arrays, *Proceedings of the IEEE Sensor Array and Multichannel Signal Processing Workshop*, [Online] 2018-July 573–577,

tersedia di DOI:10.1109/SAM.2018.8448409.

Charikleia Papatsimpa, J.-P.L., 2019, *Distributed Fusion of Sensor Data in a Constrained Wireless Network*, [Online] 1–17, tersedia di DOI:10.3390/s19051006.

Chavez-Garcia, R.O. dan Aycard, O., 2015, Multiple Sensor Fusion and Classification for Moving Object Detection and Tracking, *IEEE Transactions on Intelligent Transportation Systems*, [Online] 17 (2), 525–534, tersedia di DOI:10.1109/TITS.2015.2479925.

Chen, G., Liu, Z., Yu, G. dan Liang, J., 2021, A New View of Multisensor Data Fusion: Research on Generalized Fusion, *Mathematical Problems in Engineering*, [Online] 2021, tersedia di DOI:10.1155/2021/5471242.

Cho, H., Seo, Y.W., Kumar, B.V.K.V. dan Rajkumar, R.R., 2014, A multi-sensor fusion system for moving object detection and tracking in urban driving environments, *Proceedings - IEEE International Conference on Robotics and Automation*, [Online] 1836–1843, tersedia di DOI:10.1109/ICRA.2014.6907100.

Choi, K., Fazekas, G., Sandler, M. dan Cho, K., 2018, A comparison of audio signal preprocessing methods for deep neural networks on music tagging, *European Signal Processing Conference*, [Online] 2018-Sept 1870–1874, tersedia di DOI:10.23919/EUSIPCO.2018.8553106.

Christiani, R.F. dan Azhari, S.N., 2022, Computational Intelligent Algorithms in Multi-Sensor Data Fusion for UAV Detection and Identification: Challenges and Opportunities, *International Conference on Tropical Studies (ICTROPS)*, 1 (1), 149–158.

Christiani, R.F., Fuadi, H.L., Afandi, M.A., Azhari, S.N. dan Dharmawan, A., 2022, Comparison of Support Vector Machine and Neural Network Algorithm in Drone Detection System, *Proceedings - 2022 IEEE International Conference on Cybernetics and Computational Intelligence, CyberneticsCom 2022*, [Online] 421–426, tersedia di DOI:10.1109/CyberneticsCom55287.2022.9865628.

Christnacher, F., Hengy, S., Laurenzis, M., Matwyschuk, A., Naz, P., Schertzer, S. dan Schmitt, G., 2016, Optical and acoustical UAV detection, *Electro-Optical Remote Sensing X*, [Online] 9988 (0), 99880B, tersedia di DOI:10.1117/12.2240752.

Colorado, J., Perez, M., Mondragon, I., Mendez, D., Parra, C., Devia, C., Martinez-Moritz, J. dan Neira, L., 2017, An integrated aerial system for landmine detection: SDR-based Ground Penetrating Radar onboard an autonomous drone, *Advanced Robotics*, [Online] 31 (15), 791–808, tersedia di DOI:10.1080/01691864.2017.1351393.

CRFS, 2020, RF Eye Drone Defense, [Online], tersedia di <https://pages.crfs.com/hubfs/CR-002800-GD-2-DroneDefense%25%0A20Brochure.pdf>, diakses 28 Juli 2020.

- Crivellaro, A., Rad, M., Verdie, Y., Yi, K.M., Fua, P. dan Lepetit, V., 2015, A novel representation of parts for accurate 3d object detection and tracking in monocular images, *Proceedings of the IEEE International Conference on Computer Vision*, [Online] 2015 Inter4391–4399, tersedia di DOI:10.1109/ICCV.2015.499.
- Dai, X. dan Khorram, S., 1999, Data fusion using artificial neural networks: A case study on multitemporal change analysis, *Computers, Environment and Urban Systems*, [Online] 23 (1), 19–31, tersedia di DOI:10.1016/S0198-9715(98)00051-9.
- Dasarathy, B. V., 1998, Intelligent learning techniques for multi-source information fusion environments, *Proceedings of the IEEE Conference on Decision and Control*, [Online] 1 (December), 221–226, tersedia di DOI:10.1109/cdc.1998.760674.
- Deng, L., Hinton, G. dan Kingsbury, B., 2013, New types of deep neural network learning for speech recognition and related applications: An overview, *2013 IEEE international conference on acoustics, speech and signal processing*, 2013 IEEE., hal. 8599–8603.
- Diamantidou, E., Lalas, A., Votis, K. dan Tzovaras, D., 2019, Multimodal Deep Learning Framework for Enhanced Accuracy of UAV Detection, *Lecture Notes in Computer Science (including subseries Lecture Notes in Artificial Intelligence and Lecture Notes in Bioinformatics)*, [Online] 11754 LNCS768–777, tersedia di DOI:10.1007/978-3-030-34995-0_70.
- DIn, S., Ahmad, A., Paul, A., Ullah Rathore, M.M. dan Jeon, G., 2017, A Cluster-Based Data Fusion Technique to Analyze Big Data in Wireless Multi-Sensor System, *IEEE Access*, [Online] 55069–5083, tersedia di DOI:10.1109/ACCESS.2017.2679207.
- Dong, J., Zhuang, D., Huang, Y. dan Fu, J., 2009, Advances in multi-sensor data fusion: Algorithms and applications, *Sensors*, [Online] 9 (10), 7771–7784, tersedia di DOI:10.3390/s91007771.
- Drozdownicz, J., Wielgo, M., Samczynski, P., Kulpa, K., Krzonkalla, J., Mordzonek, M., Bryl, M. dan Jakielaszek, Z., 2016, 35 GHz FMCW drone detection system, *Proceedings International Radar Symposium*, [Online] 2016-June1–4, tersedia di DOI:10.1109/IRS.2016.7497351.
- Durrant-whyte, H. dan Henderson, T.C., 2008, Multisensory, *Encyclopedia of Neuroscience*, [Online], hal. 2479–2479, tersedia di DOI:10.1007/978-3-540-29678-2_3650.
- Eckert, J., German, R. dan Dressler, F., 2011, An indoor localization framework for four-rotor flying robots using low-power sensor nodes, *IEEE Transactions on Instrumentation and Measurement*, [Online] 60 (2), 336–344, tersedia di DOI:10.1109/TIM.2010.2085850.
- Eklund, V.-V., 2019, *Data Augmentation Techniques For Robust Audio Analysis*, (September), MS thesis. 2019.

- Fang, G., Yi, J., Wan, X., Liu, Y. dan Ke, H., 2018, Experimental Research of Multistatic Passive Radar with a Single Antenna for Drone Detection, *IEEE Access*, [Online] 633542–33551, tersedia di DOI:10.1109/ACCESS.2018.2844556.
- Fekr, A.R., Janidarmian, M., Sarbishei, O., Nahill, B., Radecka, K. dan Zilic, Z., 2012, MSE minimization and fault-tolerant data fusion for multi-sensor systems, *Proceedings - IEEE International Conference on Computer Design: VLSI in Computers and Processors*, [Online] 445–452, tersedia di DOI:10.1109/ICCD.2012.6378677.
- Ferguson, E.L., Williams, S.B. dan Jin, C.T., 2018, Sound Source Localization in a Multipath Environment Using Convolutional Neural Networks, *ICASSP, IEEE International Conference on Acoustics, Speech and Signal Processing - Proceedings*, [Online] 2018-April2386–2390, tersedia di DOI:10.1109/ICASSP.2018.8462024.
- Fortino, G., Galzarano, S., Gravina, R. dan Li, W., 2015, A framework for collaborative computing and multi-sensor data fusion in body sensor networks, *Information Fusion*, [Online] 2250–70, tersedia di DOI:10.1016/j.inffus.2014.03.005.
- Ganti, S.R., 2016, *Implementation of Detection and Tracking Mechanism For Small UAS*, In 2016 International Conference on Unmanned Aircraft Systems (ICUAS), pp. 1254–1260, IEEE.
- Gao, S., Zhong, Y. dan Li, W., 2011, Random weighting method for multisensor data fusion, *IEEE Sensors Journal*, [Online] 11 (9), 1955–1961, tersedia di DOI:10.1109/JSEN.2011.2107896.
- Giuliano Giacaglia, 2019, Self Driving Cars, [Online], tersedia di <https://medium.com/@giacaglia/self-driving-cars-f921d75f46c7>, diakses 30 November 2021.
- Gravina, R., Alinia, P., Ghasemzadeh, H. dan Fortino, G., 2017, Multi-sensor fusion in body sensor networks: State-of-the-art and research challenges, *Information Fusion*, [Online] 351339–1351, tersedia di DOI:10.1016/j.inffus.2016.09.005.
- Guvenc, I., Koohifar, F., Singh, S., Sichitiu, M.L. dan Matolak, D., 2018, Detection, Tracking, and Interdiction for Amateur Drones, *IEEE Communications Magazine*, [Online] 56 (4), 75–81, tersedia di DOI:10.1109/MCOM.2018.1700455.
- Hall, D.L. dan Llinas, J., 1997, An introduction to multisensor data fusion, *Proceedings of the IEEE*, [Online] 85 (1), 6–23, tersedia di DOI:10.1109/5.554205.
- Han, Y.O. dan Suh, D., 2012, Multi-sensor data fusion with dynamic component for context awareness, *International Journal of Smart Home*, 6.4 (2012), 107–116.
- Chen, Hanchi, et al. Direct-to-reverberant energy ratio estimation using a first-order microphone, *IEEE/ACM Transactions on Audio, Speech, and Language Processing* 25.2 (2016): 226-237.

- Harpur, S., Bozkurt, A. dan Yamaner, F.Y., 2008, Ultrasonic phased array device for real-time acoustic imaging in air, *Proceedings - IEEE Ultrasonics Symposium*, [Online] 8 (11), 619–622, tersedia di DOI:10.1109/ULTSYM.2008.0148.
- Hommel, A., Shoykhetbrod, A., Noetel, D., Stanko, S., Laurenzis, M., Hengy, S. dan Christnacher, F., 2016, Detection of acoustic, electro-optical and RADAR signatures of small unmanned aerial vehicles, *Target and Background Signatures II*, [Online] 9997 (0), 999701, tersedia di DOI:10.1117/12.2242180.
- Hu, X. dan Wang, X., 2012, Application of fuzzy data fusion in multi-sensor fire monitoring, *Proceedings - 2012 International Symposium on Instrumentation and Measurement, Sensor Network and Automation, IMSNA 2012*, [Online] 1157–159, tersedia di DOI:10.1109/MSNA.2012.6324537.
- Huang, Z., Xu, J., Gong, Z., Wang, H. dan Yan, Y., 2019, Multiple source localization in a shallow water waveguide exploiting subarray beamforming and deep neural networks, *Sensors (Switzerland)*, [Online] 19 (21), 1–22, tersedia di DOI:10.3390/s19214768.
- Hubbard, B., Karasz, P. dan Reed, S., 2019, Two major Saudi Oil Installations hit by drone strike, and US blames Iran, *The New York Times*, 14 (2019).
- Indonesia, C., 2020, 5 Aturan Terbangkan Drone di Indonesia, [Online], tersedia di <https://www.cnnindonesia.com/teknologi/20191231133206-199-461301/5-aturan-terbangkan-drone-di-indonesia>.
- Iqbal, K., Abbas, S., Khan, M.A., Ather, A., Khan, M.S., Fatima, A. dan Ahmad, G., 2020, Autonomous parking-lots detection with multi-sensor data fusion using machine deep learning techniques, *Computers, Materials and Continua*, [Online] 66 (2), 1595–1612, tersedia di DOI:10.32604/cmc.2020.013231.
- Jamil, S., Fawad, Rahman, M., Ullah, A., Badnava, S., Forsat, M. & Mirjavadi, S.S., 2020, *Malicious UAV Detection Using Integrated Audio And Visual Features For Public Safety Applications*, *Sensors (Switzerland)*, 20, 14, 1–16.
- Jeon, S., Shin, J.W., Lee, Y.J., Kim, W.H., Kwon, Y.H. dan Yang, H.Y., 2017, Empirical study of drone sound detection in real-life environment with deep neural networks, *25th European Signal Processing Conference, EUSIPCO 2017*, [Online] 2017–Janua1858–1862, tersedia di DOI:10.23919/EUSIPCO.2017.8081531.
- Khaleghi, B., Khamis, A. dan Karray, F., 2010, Random finite set theoretic based soft/hard data fusion with application for target tracking, *IEEE International Conference on Multisensor Fusion and Integration for Intelligent Systems*, [Online] 50–55, tersedia di DOI:10.1109/MFI.2010.5604458.
- Khaleghi, B., Khamis, A., Karray, F.O. dan Razavi, S.N., 2013, Multisensor data fusion: A review of the state-of-the-art, *Information fusion*, 14.1 (2013), 28–44.
- Kim, J., Park, C., Ahn, J., Ko, Y., Park, J. dan Gallagher, J.C., 2017, Real-time UAV sound detection and analysis system, *SAS 2017 - 2017 IEEE Sensors Applications*

Symposium, Proceedings, [Online] 1–5, tersedia di DOI:10.1109/SAS.2017.7894058.

Kong, Q., Xu, Y., Sobieraj, I., Wang, W. dan Plumbley, M.D., 2019, Sound event detection and time–frequency segmentation from weakly labelled data, *IEEE/ACM Transactions on Audio, Speech, and Language Processing*, 27.4 (2019), 777–787.

Kong, Q., Xu, Y., Wang, W. dan Plumbley, M.D., 2020, Sound event detection of weakly labelled data with cnn-transformer and automatic threshold optimization, *IEEE/ACM Transactions on Audio, Speech, and Language Processing* 28 (2020), 2450–2460.

Kwang Y-K, Woo I-S, Kwak H-Y, J.Y.-H., 2016, Multi-Mode SDR Radar Platform for Small Air-Vehicle Drone Detection, *Radar (RADAR)*, [Online], 2016 hal. 1–4, tersedia di DOI:<https://doi.org/10.1109/RADAR.2016.8059254>.

librosa Development Team, 2021, Feature extraction, [Online], tersedia di <https://librosa.org/doc/main/feature.html>.

Liggins, M.E., Hall, D.L. dan Llinas, J., 2009, *Handbook of Multisensor Data Fusion: Theory and Practice*.

Lin Wang, A.C., 2017, TIME-FREQUENCY PROCESSING FOR SOUND SOURCE LOCALIZATION FROM A MICRO AERIAL VEHICLE, *IEEE Xplore*, [Online] tersedia di DOI:<https://doi-org.ezproxy.ugm.ac.id/10.1109/ICASSP.2017.7952205>.

Liu, H., Qu, F., Liu, Y., Zhao, W. dan Chen, Y., 2018a, A drone detection with aircraft classification based on a camera array, *IOP Conference Series: Materials Science and Engineering*, [Online] 322 (5), tersedia di DOI:10.1088/1757-899X/322/5/052005.

Liu, K., Li, Y., Xu, N. dan Natarajan, P., 2018b, *Learn to Combine Modalities in Multimodal Deep Learning*, [Online] tersedia di <http://arxiv.org/abs/1805.11730>.

Liu, Y., Wan, X., Tang, H., Yi, J., Cheng, Y. dan Zhang, X., 2017, Digital television based passive bistatic radar system for drone detection, *2017 IEEE Radar Conference, RadarConf 2017*, [Online] 1493–1497, tersedia di DOI:10.1109/RADAR.2017.7944443.

Llinas, J., Bowman, C., Rogova, G., Steinberg, A., Waltz, E. dan White, F., 2004, Revisiting the JDL data fusion model II, *Proceedings of the Seventh International Conference on Information Fusion, Vol.2 2004*, 21218–1230, Stockholm, Sweden: FOI, 2004.

Luo, R.C. dan Chang, C.C., 2012, Multisensor fusion and integration: A review on approaches and its applications in mechatronics, *IEEE Transactions on Industrial Informatics*, [Online] 8 (1), 49–60, tersedia di DOI:10.1109/TII.2011.2173942.

M. Pilar Jarabo-Amores, David Mata-Moya, Pedro J. Gómez-del-Hoyo, J.L. Bárcena-Humanes, J. Rosado-Sanz, N. Rey-Maestre, M.R.-Z., 2018, Drone detection feasibility with passive radars, *Proceedings of the 15th European Radar Conference, 2018 European Microwave Association (EuRAD)*, hal. 313–316, IEEE, 2018.

- Mazumder, J. dan Raj, A.B., 2020, Detection and classification of UAV using propeller Doppler profiles for counter UAV systems, *Proceedings of the 5th International Conference on Communication and Electronics Systems, ICCES 2020*, [Online] (Icces), 221–227, tersedia di DOI:10.1109/ICCES48766.2020.09138077.
- Medaiyese, O.O., Syed, A. dan Lauf, A.P., 2020, *Machine Learning Framework for RF-Based Drone Detection and Identification System*, [Online] tersedia di <http://arxiv.org/abs/2003.02656>.
- Mendis, G.J., Randeny, T., Wei, J. dan Madanayake, A., 2016, Deep learning based doppler radar for micro UAS detection and classification, *Proceedings - IEEE Military Communications Conference MILCOM*, [Online] 924–929, tersedia di DOI:10.1109/MILCOM.2016.7795448.
- Mezei, J., Fiaska, V. dan Molnar, A., 2016, Drone sound detection, *CINTI 2015 - 16th IEEE International Symposium on Computational Intelligence and Informatics, Proceedings*, [Online] 333–338, tersedia di DOI:10.1109/CINTI.2015.7382945.
- Mezei, J. dan Molnár, A., 2016, Drone Sound Detection by Correlation, 1 (4), 509–518, *2016 IEEE 11th International Symposium on Applied Computational Intelligence and Informatics (SACI)*. IEEE, 2016.
- Michel, Arthur Holland. Counter-drone systems, *Center for the Study of the Drone at Bard College*, 2018.
- Mocanu, B., Pop, F. dan Mihaita, A., 2018, Data fusion technique in SPIDER Peer-to-Peer networks in smart cities for security enhancements, *Information Sciences*, [Online] 01–15, tersedia di DOI:10.1016/j.ins.2018.06.070.
- Ngiam, J., Khosla, A., Kim, M., Nam, J., Lee, H. dan Ng, A.Y., 2011, Multimodal deep learning, *Proceedings of the 28th international conference on machine learning (ICML-11)*, 2011.
- Nguyen, P., Ravindranathan, M., Nguyen, A., Han, R. dan Vu, T., 2016, Investigating cost-effective RF-based detection of drones, *DroNet 2016 - Proceedings of the 2nd Workshop on Micro Aerial Vehicle Networks, Systems, and Applications for Civilian Use, co-located with MobiSys 2016*, [Online] 17–22, tersedia di DOI:10.1145/2935620.2935632.
- Niu, H., Gong, Z., Ozanich, E., Gerstoft, P., Wang, H. dan Li, Z., 2019, Deep-learning source localization using multi-frequency magnitude-only data, *The Journal of the Acoustical Society of America*, 146.1 (2019), 211–222, 2019.
- Nordby, J., 2019, *Audio Classification with Machine Learning*. [Online]. tersedia di DOI:10.5446/44845.
- Park, S., Kim, H.T., Lee, S., Joo, H. dan Kim, H., 2021, Survey on Anti-Drone Systems: Components, Designs, and Challenges, *IEEE Access* 9 (2021), 42635–42659.

- Perotin, L., Serizel, R., Vincent, E. dan Guerin, A., 2018, CRNN-based Joint Azimuth and Elevation Localization with the Ambisonics Intensity Vector, *16th International Workshop on Acoustic Signal Enhancement, IWAENC 2018 - Proceedings*, [Online] 241–245, tersedia di DOI:10.1109/IWAENC.2018.8521403.
- Pradhan, S., Patnaik, P. dan Mishra, S.D., 2017, A Survey on Varied Distributed Clustering Algorithms for Wireless Sensor Networks, *i-Manager's Journal on Communication Engineering and Systems*, 7.1 (2017), 35, 2017.
- Prime Consulting & Technologies, 2015, “ANTI-DRONE” SYSTEM OVERVIEW AND TECHNOLOGY COMPARISON, [Online], tersedia di <https://anti-drone.eu/blog/anti-drone-publications/anti-drone-system-overview-and-technology-comparison.html>.
- Purwins, H., Li, B., Virtanen, T., Schlüter, J., Chang, S.Y. dan Sainath, T., 2019, Deep Learning for Audio Signal Processing, *IEEE Journal on Selected Topics in Signal Processing*, [Online] 13 (2), 206–219, tersedia di DOI:10.1109/JSTSP.2019.2908700.
- Rodger, J.A., 2012, Toward reducing failure risk in an integrated vehicle health maintenance system: A fuzzy multi-sensor data fusion Kalman filter approach for IVHMS, *Expert Systems with Applications*, [Online] 39 (10), 9821–9836, tersedia di DOI:10.1016/j.eswa.2012.02.171.
- Rodhe and Schwarz. (2020)., 2020, R&S Ardonis, [Online], tersedia di https://scdn.rohde-schwarz.com/ur/pws/dl_%0Adownloads/dl_common_library/dl_brochures_and_datasheets/pdf_%0A1/ARDRONIS_bro_en_5214-7035-12_v0600.pdf, diakses 28 Juli 2020.
- S. S. Trundle and A. J. Slavin, 2017, Drone Detection Systems, [Online], tersedia di https://drone-detection-system.com/aartos-dds/product-overview/?gclid=CjwKCAiAvriMBhAuEiwA8Cs5lYa42CpgjxZPhbCBlqvV21W6-WdGfDq45jQf2xF9gbAmCgby8PPwdRoCSxEQAvD_BwE, diakses 30 Maret 2017.
- Safari, S., Shabani, F. dan Simon, D., 2014, Multirate multisensor data fusion for linear systems using Kalman filters and a neural network, *Aerospace Science and Technology*, [Online] 39465–471, tersedia di DOI:10.1016/j.ast.2014.06.005.
- Safizadeh, M.S. dan Latifi, S.K., 2014, Using multi-sensor data fusion for vibration fault diagnosis of rolling element bearings by accelerometer and load cell, *Information Fusion*, [Online] 18 (1), 1–8, tersedia di DOI:10.1016/j.inffus.2013.10.002.
- Samaras, S., Diamantidou, E., Ataloglou, D., Sakellariou, N., Vafeiadis, A., Magoulitanis, V., Lalas, A., Dimou, A., Zarpalas, D., Votis, K., Daras, P. dan Tzovaras, D., 2019, Deep learning on multi sensor data for counter Uav applications—a systematic review, *Sensors (Switzerland)*, [Online] 19 (22), 1–35, tersedia di DOI:10.3390/s19224837.
- Samarasinghe, P.N., Abhayapala, T.D. dan Poletti, M.A.Betlehem, T., 2014, On Room Impulse Response Between Arbitrary Points: An Efficient Parameterization, *IEEE*

Explore International Symposium on Communications Control and Signal Processing (ISCCSP), IEEE, 2014.

- Sapkota, K.R., Roelofsen, S., Rozantsev, A., Lepetit, V., Gillet, D., Fua, P. dan Martinoli, A., 2016, Vision-based unmanned aerial vehicle detection and tracking for sense and avoid systems, *IEEE International Conference on Intelligent Robots and Systems*, [Online] 2016-Novem1556–1561, tersedia di DOI:10.1109/IROS.2016.7759252.
- Saqib, M., Daud Khan, S., Sharma, N. dan Blumenstein, M., 2017, A study on detecting drones using deep convolutional neural networks, *2017 14th IEEE International Conference on Advanced Video and Signal Based Surveillance, AVSS 2017*, [Online] (August), tersedia di DOI:10.1109/AVSS.2017.8078541.
- Seo, Y., Jang, B. dan Im, S., 2018, Drone Detection Using Convolutional Neural Networks with Acoustic STFT Features, *2018 15th IEEE International Conference on Advanced Video and Signal Based Surveillance (AVSS)*, 1–6, IEEE, 2018.
- Serizel, R., Bisot, V., Essid, S. dan Richard, G., 2018, Acoustic features for environmental sound analysis, *Computational analysis of sound scenes and events*, Springer., hal. 71–101.
- Shan, G., Park, B.H., Nam, S.H., Kim, B., Roh, B.H. dan Ko, Y.B., 2015, A 3-dimensional triangulation scheme to improve the accuracy of indoor localization for IoT services, *IEEE Pacific RIM Conference on Communications, Computers, and Signal Processing - Proceedings*, [Online] 2015-Novem359–363, tersedia di DOI:10.1109/PACRIM.2015.7334862.
- Shi, X., Yang, C., Xie, W., Liang, C., Shi, Z. dan Chen, J., 2018, Anti-Drone System with Multiple Surveillance Technologies: Architecture, Implementation, and Challenges, *IEEE Communications Magazine*, [Online] 56 (4), 68–74, tersedia di DOI:10.1109/MCOM.2018.1700430.
- Shin, D.H., Jung, D.H., Kim, D.C., Ham, J.W. dan Park, S.O., 2017, A Distributed FMCW Radar System Based on Fiber-Optic Links for Small Drone Detection, *IEEE Transactions on Instrumentation and Measurement*, [Online] 66 (2), 340–347, tersedia di DOI:10.1109/TIM.2016.2626038.
- Steinberg, A.N., Bowman, C.L. dan White, F.E., 1999, Revisions to the JDL data fusion model, *Proc.SPIE*, [Online], 12 Maret 1999 hal. tersedia di DOI:10.1117/12.341367.
- Sung, W.T. dan Tsai, M.H., 2012, Data fusion of multi-sensor for IOT precise measurement based on improved PSO algorithms, *Computers and Mathematics with Applications*, [Online] 64 (5), 1450–1461, tersedia di DOI:10.1016/j.camwa.2012.03.092.
- Svanström, F., Englund, C. dan Alonso-Fernandez, F., 2020, Real-time drone detection and tracking with visible, thermal and acoustic sensors, *Proceedings - International Conference on Pattern Recognition*, [Online] 7265–7272, tersedia di DOI:10.1109/ICPR48806.2021.9413241.

- Tang, D., Qin, B. dan Liu, T., 2015, Document modeling with gated recurrent neural network for sentiment classification, *Conference Proceedings - EMNLP 2015: Conference on Empirical Methods in Natural Language Processing*, [Online] (September), 1422–1432, tersedia di DOI:10.18653/v1/d15-1167.
- Tiwari, V., 2010, MFCC and its applications in speaker recognition, *International Journal on Emerging Technologies*, 1.1 (2010), 19–22.
- Tobias Rodemann, 2010, A study on distance estimation in binaural sound localization, *The 2010 IEEE/RSJ International Conference on Intelligent Robots and Systems*, IEEE, 2010.
- Turqueti, M., Saniie, J. dan Oruklu, E., 2010, SCALABLE ACOUSTIC IMAGING PLATFORM USING MEMS ARRAY Marcos Turqueti , Jafar Saniie and Erdal Oruklu Department of Electrical and Computer Engineering Illinois Institute of Technology , Chicago , Illinois 60616, *Computer Engineering*, [Online] 1–4, tersedia di [http://ieeexplore.ieee.org/search/srchabstract.jsp?tp=&arnumber=5612131&queryText=\(\(Document+Title:SCALABLE+ACOUSTIC+IMAGING+PLATFORM+USIN+G+MEMS+ARRAY\)\)&openedRefinements=*&sortType=desc_Publication+Year&matchBoolean=true&rowsPerPage=100&searchField=Searc](http://ieeexplore.ieee.org/search/srchabstract.jsp?tp=&arnumber=5612131&queryText=((Document+Title:SCALABLE+ACOUSTIC+IMAGING+PLATFORM+USIN+G+MEMS+ARRAY))&openedRefinements=*&sortType=desc_Publication+Year&matchBoolean=true&rowsPerPage=100&searchField=Searc).
- Unlu, E., Zenou, E., Riviere, N. dan Dupouy, P.E., 2019, Deep learning-based strategies for the detection and tracking of drones using several cameras, *IPSI Transactions on Computer Vision and Applications*, [Online] 11 (1), tersedia di DOI:10.1186/s41074-019-0059-x.
- Valin, J.M., Michaud, F., Rouat, J. dan L  tourneau, D., 2003, Robust Sound Source Localization Using a Microphone Array on a Mobile Robot, *IEEE International Conference on Intelligent Robots and Systems*, [Online] 2 (October), 1228–1233, tersedia di DOI:10.1109/iros.2003.1248813.
- Vemula, H.C., 2018, Multiple drone detection and acoustic scene classification with deep learning, *MS thesis*. Wright State University, 2018.
- Wang, J., Liu, Y., Song, H. dan Aeronautical, E., 2021, Tutorial : Counter-Unmanned Aircraft System (s) (C-UAS): State of the Art , Challenges , and Future Trends, (10), *IEEE Aerospace and Electronic Systems Magazine* 36.3 (2021): 4-29.
- Wang, L., Ai, J., Zhang, L. dan Xing, Z., 2020, Design of airport obstacle-free zone monitoring uav system based on computer vision, [Online]. tersedia di DOI:10.3390/s20092475.
- Wang, S., 2020, Multisensor data fusion of motion monitoring system based on BP neural network, *Journal of Supercomputing*, [Online] 76 (3), 1642–1656, tersedia di DOI:10.1007/s11227-019-03015-0.
- Wellig, P., Speirs, P., Schuepbach, C., Oechslein, R., Renker, M., Boeniger, U. dan Pratisto, H., 2018, Radar systems and challenges for C-UAV, *Proceedings International Radar*

Symposium, [Online] 2018-June1–8, tersedia di DOI:10.23919/IRS.2018.8448071.

Xia, X., Togneri, R., Sohel, F., Zhao, Y. dan Huang, D., 2019, Multi-task learning for acoustic event detection using event and frame position information, *IEEE Transactions on Multimedia*, 22.3 (2019), 569–578.

Yiwere, M. dan Rhee, E.J., 2020, Sound source distance estimation using deep learning: An image classification approach, *Sensors (Switzerland)*, [Online] 20 (1), tersedia di DOI:10.3390/s20010172.

Yuan, J., Chen, H., Sun, F. dan Huang, Y., 2015, Multisensor Information Fusion for People Tracking with a Mobile Robot: A Particle Filtering Approach, *IEEE Transactions on Instrumentation and Measurement*, [Online] 64 (9), 2427–2442, tersedia di DOI:10.1109/TIM.2015.2407512.

Zhang, Yu, Miguel Martínez-García, dan Anthony Latimer. Selecting optimal features for cross-fleet analysis and fault diagnosis of industrial gas turbines, *Turbo Expo: Power for Land, Sea, and Air*. Vol. 51128. American Society of Mechanical Engineers, 2018.

Zhu, P. et al., 2018, Chinese Academy of Sciences, China. 35 Institute of Automation, *Chinese Academy of Sciences*, [Online] 1–30, tersedia di <http://www.aiskyeye.com/>.

Zuo, Z., Shuai, B., Wang, G., Liu, X., Wang, X., Wang, B. dan Chen, Y., 2016, Learning Contextual Dependence With Convolutional Hierarchical Recurrent Neural Networks, *IEEE Transactions on Image Processing*, [Online] 25 (7), 2983–2996, tersedia di DOI:10.1109/TIP.2016.2548241.