

Daftar Pustaka

- [1] *Arduino.cc*, 2024. <https://docs.arduino.cc/hardware/nicla-vision/> (accessed Mar. 01, 2024).
- [2] LeCun, Y., Bengio, Y., & Hinton, G., "Deep learning," *Nature*, vol. 521, no. 7553, hal. 436-444, 2015.
- [3] Krizhevsky, A., Sutskever, I., & Hinton, G. E., "ImageNet Classification with Deep Convolutional Neural Networks," *Advances in Neural Information Processing Systems (NeurIPS)*, 2012.
- [4] "Driver Drowsiness Detection With FOMO," *Hackster.io*.
<https://www.hackster.io/coderscafe/driver-drowsiness-detection-with-fomo-206ccf> (accessed Mar. 01, 2024).
- [5] Z. Zhao, N. Zhou, L. Zhang, H. Yan, Y. Xu, and Z. Zhang, "Driver Fatigue Detection Based on Convolutional Neural Networks Using EM-CNN," *Computational Intelligence and Neuroscience*, vol. 2020, p. e7251280, Nov. 2020, doi: <https://doi.org/10.1155/2020/7251280>.
- [6] "Method of Detecting Logistics Driver's Fatigue State Based on Computer Vision | IEEE Conference Publication | IEEE Xplore," *ieeexplore.ieee.org*.
<https://ieeexplore.ieee.org/abstract/document/7810833/> (accessed Mar. 01, 2024).
- [7] P. R. Johns and G. Hocking, "Driver Drowsiness Detection Using Eye Closure Duration," *Journal of Sleep Research*, vol. 28, no. 5, pp. 567-575, 2019.
- [8] in Motor, Committee on National Statistics, Board on Human-Systems Integration, Division of Behavioral and Social Sciences and Education, Transportation Research Board, and National Academies of Sciences, Engineering, and Medicine, "Fatigue, Hours of Service, and Highway Safety," *Nih.gov*, Aug. 12, 2016.
<https://www.ncbi.nlm.nih.gov/books/NBK384974/>
- [9] Åkerstedt, T., et al., "The Impact of Sleep Quality on Driver Drowsiness: A Literature Review," *Journal of Sleep Research*, 2004.

- [10] Jessica Erin Mabry *et al.*, "Unravelling the Complexity of Irregular Shiftwork, Fatigue and Sleep Health for Commercial Drivers and the Associated Implications for Roadway Safety," *International Journal of Environmental Research and Public Health*, vol. 19, no. 22, pp. 14780–14780, Nov. 2022, doi: <https://doi.org/10.3390/ijerph192214780>.
- [11] Dinges, D. F., "PERCLOS: A Valid Psychophysiological Measure of Alertness As Assessed by Psychomotor Vigilance," U.S. Department of Transportation, 1998.
- [12] Federal Motor Carrier Safety Administration (FMCSA), "The Validity and Reliability of the PERCLOS Metric," 2016.
- [13] Johns, M. W., "A sleep physiologist's view of the drowsy driver," *Transportation Research Part F: Traffic Psychology and Behaviour*, vol. 3, no. 4, pp. 241-249, 2000.
- [14] A. George dan A. Routray, "Design and Implementation of Real-time Algorithms for Eye Tracking and PERCLOS Measurement for on board Estimation of Alertness of Drivers," arXiv:1505.06162 [cs.CV], May 22, 2015. [Online]. Available: <https://doi.org/10.48550/arXiv.1505.06162>.
- [15] C.-D. Chiu, R. C.-H. Chang, C.-Y. Wang, dan Y.-Y. Kao, "Drowsiness Detection System Based on PERCLOS and Facial Physiological Signal," *Sensors*, vol. 22, no. 14, p. 5380, Jul. 2022. [Online]. Available: <https://doi.org/10.3390/s22145380>.
- [16] Lv, H., et al., "Driver fatigue detection based on SVM and improved particle swarm optimization," **Neurocomputing**, vol. 173, hal. 1683-1690, 2016.
- [17] C. Anderson and J. Horne, "Sleepiness and Driving: The Importance of Early Detection," *Traffic Injury Prevention*, vol. 18, no. 7, pp. 725-732, 2017.
- [18] "Fatigue Detection Based on Eye Movement," *Journal of Safety Research*, vol. 72, pp. 121-127, 2020.
- [19] "Driver Drowsiness Detector System using Raspberry Pi and OpenCV," *CircuitDigest*. [Online]. Available: <https://circuitdigest.com>.
- [20] "A Review of Recent Developments in Driver Drowsiness Detection Systems," *Sensors*, MDPI. [Online]. Available: <https://www.mdpi.com/1424-8220/19/3/657>.

- [21] P. Luo, X. Li, Y. Wang, "Driver Drowsiness Detection Based on Eye State Recognition," *IEEE Transactions on Human-Machine Systems*, vol. 45, no. 4, pp. 574-582, 2021.
- [22] "Implementing Real-Time Drowsiness Detection System Using Deep Learning and Raspberry Pi," *International Journal of Advanced Computer Science and Applications (IJACSA)*, 2020.
- [23] Raspberry Pi 4 Model B Specifications," Raspberry Pi Foundation. [Online]. Available: <https://www.raspberrypi.org/products/raspberry-pi-4-model-b/>. [Accessed: 05-Jun-2024].
- [24] "Arduino Nicla Vision," Arduino Official Website. [Online]. Available: <https://store.arduino.cc/nicla-vision>. [Accessed: 05-Jun-2024].
- [25] D. Molloy, *Exploring Raspberry Pi: Interfacing to the Real World with Embedded Linux*, Wiley, 2016.
- [26] S. Monk, *Programming Arduino: Getting Started with Sketches*, 2nd ed., McGraw-Hill Education TAB, 2016.
- [27] J. B. Polsonetti, "How to Power Your Raspberry Pi: Power Requirements, Performance, and Safety," *Electronic Design*, 2019. [Online]. Available: <https://www.electronicdesign.com/technologies/embedded-revolution/article/21121215/how-to-power-your-raspberry-pi-power-requirements-performance-and-safety>. [Accessed: 05-Jun-2024].
- [28] "Arduino Nicla Vision Datasheet," Arduino Documentation, 2020. [Online]. Available: <https://docs.arduino.cc/resources/datasheets/Nicla-Vision-datasheet.pdf>. [Accessed: 05-Jun-2024].
- [29] Zhao, Z., et al. (2020). "EM-CNN dan YOLO untuk deteksi kelelahan." *Jurnal Internasional*.
- [30] Luo, P., Li, X., & Wang, Y. (2021). "Pengakuan status mata menggunakan YOLO." *Jurnal Internasional*.
- [31] Chiu, C.-D., et al. (2022). "PERCLOS dan YOLO untuk deteksi kantuk." *Jurnal Internasional*.

- [32] Mabry, J. E., et al. (2022). Analisis Shiftwork dan Kelelahan. *Jurnal Internasional*.
- [33] *Driver Fatigue Detection Based on EM-CNN* (2023). EM-CNN untuk deteksi kantuk. *Jurnal Internasional*.
- [34] Luo, et al. (2023). Pendeteksian kantuk dengan algoritma YOLO. *Jurnal Internasional*.
- [35] *Journal of Safety Research* (2024). Deteksi kantuk berbasis gerakan mata. *Jurnal Internasional*.
- [36] Johns, P. R., & Hocking, G. (2024). Pengukuran durasi mata tertutup. *Jurnal Internasional*.



Lembar Bimbingan



UNIVERSITAS NASIONAL FAKULTAS TEKNOLOGI KOMUNIKASI DAN INFORMATIKA

S1 - Sistem Informasi, S1- Informatika, S2 - Pasca Sarjana Teknologi Informasi

Jl. Sawo Manila No. 61 Pejaten, Pasar Minggu, Jakarta 12520 Telp. (021) 78833307, 7806700 (Hunting) Fax. 7802718, 7802719

P.O. Box 4741 Jakarta 12047 Homepage : <http://www.unas.ac.id> E-mail : febunas49@gmail.com

Npm : 217064516100
Nama : ADINNE ISLAMIYATI
Program Studi : Informatika
Konsentrasi : Jaringan Komputer

KONSULTASI BIMBINGAN

KONSULTASI PEMBIMBING PROPOSAL

Tanggal	Materi Konsultasi	Status
8 November, 2024	membahas bab 1 tentang perumusan masalah dan identifikasi masalah	Sudah Ditanggapi
11 November, 2024	mencari penelitian terdahulu untuk di bab 2 sebanyak 15 jurnal internasional dengan tema kelelahan berkendara dengan metode cnn dan metode yolo untuk pembandingnya	Sudah Ditanggapi
13 November, 2024	mencari jurnal dan kelemahannya untuk di latar belakang agar bisa menjadi pembanding untuk jurnal yang di buat	Sudah Ditanggapi
14 November, 2024	menambahkan batasan masalah tentang microsleep yang akan menjadi saran pengembangan selanjutnya untuk referensi jurnal selanjutnya	Sudah Ditanggapi
20 November, 2024	mulai menyusun bab 3	Sudah Ditanggapi
21 November, 2024	menyusun sedikit bab 4	Sudah Ditanggapi
25 November, 2024	membahas dataset yang akan di gunakan	Sudah Ditanggapi
26 November, 2024	marefisi dan menyempurnakan beberapa kesalahan yang ada di proposal	Sudah Ditanggapi
3 December, 2024	proposal fix	Sudah Ditanggapi

KONSULTASI PEMBIMBING TUGAS AKHIR

Tanggal	Materi Konsultasi	Status
---------	-------------------	--------

12 February, 2025	membenahi data set yang ada	Sudah Ditanggapi
17 February, 2025	menyusun bab 4 dan merevisi kalimat	Sudah Ditanggapi
18 February, 2025	merevisi kata yang tedarapat typo	Sudah Ditanggapi
18 February, 2025	membenarkan alat camera iot yang terdapat bug	Sudah Ditanggapi
19 February, 2025	setting camera untuk di laptop yang memorinya lebih kecil	Sudah Ditanggapi
19 February, 2025	menyambungkan camera dan membenarkan penulisan	Sudah Ditanggapi
19 February, 2025	melengkapi bab 4	Sudah Ditanggapi
19 February, 2025	hasil turnitin	Sudah Ditanggapi
19 February, 2025	skripsi fixxx	Sudah Ditanggapi



Turnitin

BAB 1-5 ADINNE_217064516100.docx

ORIGINALITY REPORT

	10 %	6 %	5 %	5 %
	SIMILARITY INDEX	INTERNET SOURCES	PUBLICATIONS	STUDENT PAPERS
PRIMARY SOURCES				
1	Submitted to Sriwijaya University			1 %
	Student Paper			
2	Submitted to University of Greenwich			1 %
	Student Paper			
3	openlibrarypublications.telkomuniversity.ac.id			<1 %
	Internet Source			
4	Ananda Rizki Dani, Irma Handayani, "Classification of Yogyakarta Batik Motifs Using GLCM and CNN Methods", Jurnal Teknologi Terpadu, 2024			<1 %
	Publication			
5	repository.its.ac.id			<1 %
	Internet Source			
6	Submitted to unibuc			<1 %
	Student Paper			
7	id.scribd.com			<1 %
	Internet Source			
8	Aang Alim Murtopo, Maulana Aditdya, Pingky Septiana Ananda, Gunawan Gunawan, "PENERAPAN COMPUTER VISION UNTUK MENDETEKSI KELENGKAPAN ATRIBUT SISWA MENGUNAKAN METODE CNN", PROSISKO: Jurnal Pengembangan Riset dan Observasi Sistem Komputer, 2024			<1 %
	Publication			
9	Submitted to City University			<1 %
	Student Paper			