DAFTAR PUSTAKA

[1] Kenzo Nonami, "Overview of the global drone industry," s2ID: cb74a16db5098b092b6235c45893654602227551.

[2] Reuters. (2024, July) China to abolish temporary export control of certain consumer drones. [Online]. Available: https://www.reuters.com/business/aerospace-defense/china-adjust-drone-export-control-measures-sept-1-2024-07-31/

[3] Qurotu Ayun, Q. Ayun, Shidiq Kurniawan, S. Kurniawan, Wahyu Adhi Saputro, W. A. Saputro, and W. A. Saputro, "Perkembangan konversi lahan pertanian di bagian negara agraris," vol. 5, no. 2, pp. 38–44, MAG ID: 3114333171 S2ID: 034e2b1cc5f324c98019c4aae12e2c4af49b2faa.

[4] M F Ikhwali, S Nur, D Darmansyah, A M Hamdan, N S Ersa, N Aida, A Yusra, and A Satria, "A review of climate change studies on paddy agriculture in indonesia," vol. 1116, no. 1, pp. 012 052–012 052, MAG ID: 4313367190 S2ID: 6a3ac89681ec071a4ef8eb9cf03f6cd5ff8b613f.

[5] Yudhy Harini Bertham, Bambang Gonggo M, and Kartika Utami, "Peningkatan pengetahuan masyarakat dalam pemberian pupuk organik dan anorganik untuk produktivitas tanaman," vol. 6, no. 4, pp. 2961–2961, MAG ID: 4381801903 S2ID: d959fab47bf4edf34280ab16cb25267cb9179758.

[6] Susan Rachmawati, Susan Rachmawati, Arman Syah Putra, Arman Syah Putra, A. S. Putra, Abednego Priyatama, A. Priyatama, Dudi Parulian, D. Parulian, Dona Katarina, Dona Katarina, D. Katarina, Muhammad Tri Habibie, M. T. Habibie, Matdio Siahaan, M. Siahaan, Endah Prawesti Ningrum, Endah Prawesti Ningrum, E. P. Ningrum, Alsen Medikano, Alsen Medikano, V.H. Valentino, and V. H. Valentino, "Application of drone technology for mapping and monitoring of corn agricultural land," MAG ID: 3199987243 S2ID: 21d0550c643152bcb1dd2a23f106cad28a9849cb.

[7] Seno Darmawan Panjaitan, Yohana Sutiknyawati Kusuma Dewi, Muhammad Hendri, Romario Aldrian Wicaksono, and Hendro Priyatman, "A drone technology implementation approach to conventional paddy fields application," vol. 10, pp. 120 650–120 658, MAG ID: 4312583798 S2ID: 598ba847b4d3f03096e325ff50c3fff0af2bd434.

[8] Kholid Rosyidi Muhammad Nur, Dodi Wijaya, and Nurfika Asmaningrum, "Preventing health problems impact toward pesticide exposure among rice farming group in mayang village, mayang district, jember regency," vol. 1, no. 1, pp. 42–48, MAG ID: 4380627740 S2ID: 376820dbfc5743c38ba4ac49f7cc0aa2af100c30.

[9] Mutia Ardhaneswari, Mutia Ardhaneswari, Bambang Wispriyono, and Bambang Wispriyono, "Analisis risiko kesehatan akibat pajanan senyawa nitrat dan nitrit pada air tanah di desa cihambulu subang," vol. 21, no. 1, pp. 65–72, MAG ID: 4214681494 S2ID: f0ebc996de96cf5a080fe03d7592aee76b494fce.

[10] I. P. Sopian and ASTTA (Asosiasi Sistem & Teknologi Tanpa Awak), "Focus Group Discussion: Peluang Industri Komponen Drone Dalam Negeri," Presented at

a Focus Group Discussion, December 2022. [Online]. Available: https://astta.id/wp-content/uploads/2022/12/ASTTA-FGD-Industri-Komponen-Drone-.pdf

[11] J. S. Van Oudenaren and P. W. Singer. (2025, June) China's burgeoning drone arsenal shows power of civil-military fusion. [Online]. Available: https://www.defenseone.com/ideas/2025/06/chinas-drone-arsenal-shows-power-civil-military-fusion/406118/

[12] J. Pliego-Jiménez, "Quaternion-based adaptive control for trajectory tracking of quadrotor unmanned aerial vehicles," vol. 35, pp. 628–641.

[13] M. Esmail, M. Merzban, A. Khalaf, H. Hamed, and A. Hussein, "Attitude and altitude nonlinear control regulation of a quadcopter using quaternion representation," vol. 10, pp. 5884–5894.

[14] A. Shevidi and H. Hashim, "Quaternion-based adaptive backstepping fast terminal sliding mode control for quadrotor UAVs with finite time convergence," vol. abs/2407.01275.

[15] E. Fresk and G. Nikolakopoulos, "Full quaternion based attitude control for a quadrotor," pp. 3864–3869.

[16] S. Nekoo, J. Acosta, and A. Ollero, "Quaternion-based state-dependent differential riccati equation for quadrotor drones: Regulation control problem in aerobatic flight," vol. 40, pp. 3120–3135.

[17] P. Kotaru, R. Edmonson, and K. Sreenath, "Geometric l1 adaptive attitude control for a quadrotor unmanned aerial vehicle."

[18] V. Akkinapalli, G. Falconi, and F. Holzapfel, "Attitude control of a multicopter using l1 augmented quaternion based backstepping," pp. 170–178. [Online]. Available: https://consensus.app/papers/attitude-control-of-a-multicopter-using-l1-augmented-holzapfel-falconi/0cc8588b7f825af8aae63d875f9a7ce0/

[19] S. Mallikarjunan, B. Nesbitt, E. Kharisov, E. Xargay, N. Hovakimyan, and C. Cao, "L1 adaptive controller for attitude control of multirotors."

[20] O. Magnussen, M. Ottestad, and G. Hovland, "Experimental validation of a quaternion-based attitude estimation with direct input to a quadcopter control system," pp. 480–485.

[21] X. Duan, C. Yue, H. Liu, H. Guo, and F. Zhang, "Attitude tracking control of small-scale unmanned helicopters using quaternion-based adaptive dynamic surface control," vol. 9, pp. 10 153–10 165.

[22] D. Mihailescu-Stoica, R. Acuna, and J. Adamy, "High performance adaptive attitude control of a quadrotor," pp. 3462–3469.

[23] F. Serrano, O. Castillo, M. Alassafi, F. Alsaadi, and A. Ahmad, "Terminal sliding mode attitude-position quaternion based control of quadrotor unmanned aerial vehicle."

[24] Kevin A. Wise, K. A. Wise, Eugene Lavretsky, E. Lavretsky, Naira Hovakimyan, and N. Hovakimyan, "Adaptive control of flight: theory, applications, and open problems," pp. 5966–5971, MAG ID: 2120653522 S2ID: d500b439f4b10711173bbd408e0f4414b21c2268.

[25] B. Boskovich, B. Boskovich, Rüdiger Kaufmann, and R. E. Kaufmann, "Evolution of the honeywell first-generation adaptive autopilot and its applications to f-94, f-101, x-15, and x-20 vehicles." vol. 3, no. 4, pp. 296–304, MAG ID: 2062291145 S2ID: 36989f3c442b398847bac305b9e87d995141ed71.

[26] Nasa Nasa and nasa, "Experience with the x-15 adaptive flight control system," MAG ID: 3031089715 S2ID: 5b965569fc2177bcae64ab9053659967f808e3f8.

[27] Chengyu Cao, C. Cao, Naira Hovakimyan, and N. Hovakimyan, "Design and analysis of a novel l1 adaptive controller, part i: Control signal and asymptotic stability," pp. 3397–3402, MAG ID: 2148896300 S2ID: c0760caea3d77cdb4f535515a09c7e992562ee59.

[28] Zhou Yan, Yan Zhou, Yongjian Chen, Yongjian Chen, Jing Li, and Jing Li, "L1 adaptive output-feedback fault-tolerant controller for multivariable nonlinear systems with actuator faults," pp. 4548–4553, MAG ID: 3214941516 S2ID: e0ee5594a8dc76386633599acfe4c7bd7d2d1b3a.

[29] Jeffrey Mao, Jennifer Yeom, Suraj Nair, and Giuseppe Loianno, "From propeller damage estimation and adaptation to fault tolerant control: Enhancing quadrotor resilience," ARXIV_ID: 2310.13091 S2ID: 22ab0b94100c8b346801eed36fb2571148bb47ce.

[30] Deepanshu Bagati, Toufik Souanef, and J. Whidborne, "Design and implementation of an l1 adaptive proportional output feedback controller," s2ID: e7e3dc372a5c151c396b1f6cb2d74f226369ca05.

[31] C. Cao and Hovakimyan, "[IEEE 2006 american control conference - minneapolis, MN, USA (2006.06.14-2006.06.16)] 2006 american control conference - design and analysis of a novel l1 adaptive controller, part II: Guaranteed transient performance," MAG ID: 2775074458 S2ID: 99c408b68b20a228a563989ccb9fd71835676b45.

[32] Kyaw Myat Thu, K. M. Thu, Gavrilov Alexander Igorevich, and G. A. Igorevich, "Modeling and design optimization for quadcopter control system using l1 adaptive control," pp. 1–5, MAG ID: 2558435735 S2ID: 770699981f1be549048d27588f2cb3a2a6820d16.

[33] Ningjun Liu, N. Liu, Zhihao Cai, Z. Cai, Yingxun Wang, and Y. Wang, "An l1 adaptive roll and pitch angle controller for quadrotors," pp. 2473–2478, MAG ID: 2514811543 S2ID: f949d22359eb2e95dd672b67148bb4776db566cb.

[34] N. Hovakimyan, *L1 Adaptive Chontrol Theory, Guaranteed Robustness with Fast Adaptation*, 1st ed. Philadelphia: SIAM, 2010.