

Development and Education) in the frames of the project “Modular platform for autonomous chassis of specialized electric vehicles for freight and equipment transportation”, Reg. No. CZ.02.1.01/0.0/0.0/16_025/0007293.

REFERENCES

- [1] Jawad, H.M., Nordin, R., Gharghan, S.K., Jaward, A.M., Iamail, M. (2017). Energy-efficient wireless sensor networks for precision agriculture: A review. *Sensors*, 17(8): 1781. <https://doi.org/10.3390/s17081781>
- [2] Tamre, M., Hudjakov, R., Shvarts, D., Polder, A., Hiiemaa, M., Juurma, M. (2018). Implementation of integrated wireless network and MATLAB system to control autonomous mobile robot. *International Journal of Innovative Technology and Interdisciplinary Sciences*, 1(1): 18-25. <https://doi.org/10.1515/IJITIS.2018.1.1.18-25>
- [3] Bhagwat, P., Raman, B., Sanghi, D. (2014). Turning 802.11 inside-out. *ACM SIGCOMM Computer Communication Review*, 34(1): 33-38. <https://doi.org/10.1145/972374.972381>
- [4] Chebrolu, K., Raman, B. (2007). FRACTEL: A fresh perspective on (rural) mesh networks. *Workshop on Networked Systems for Developing Regions*, pp. 8:1-8:6. <https://doi.org/10.1145/1326571.1326583>
- [5] Hussain, M.I., Ahmed, Z.I., Sarma, N., Saikia, D. (2016). An efficient TDMA MAC protocol for multi-hop WiFi-based long distance networks. *Wireless Personal Communications*, 86(4): 1971-1994. <https://doi.org/10.1007/s11277-015-3165-9>
- [6] Jayaraman, P.P., Yavari, A., Georgakopoulos, D., Morshed, A., Zaslavsky, A. (2016). Internet of Things platform for smart farming: Experiences and lessons learnt. *Sensors*, 16(11): 1884. <https://doi.org/10.3390/s16111884>
- [7] Talavera, J.M., Tobon, L.E., Gomez, J.A., Culman, M.A., Aranda, J.M., Parra, D.T., Quiroz, L.A., Hoyos, A., Garreta, L.E. (2017). Review of IoT applications in agro-industrial and environmental fields. *Computers and Electronics in Agriculture*, 142: 283-297. <https://doi.org/10.1016/j.compag.2017.09.015>
- [8] Reza, M., Minh, V.T. (2016). Fuzzy logic control for non-linear model of the ball and beam system. *The Proceedings of the International Conference of DAAAM Baltic "Industrial Engineering"*, 2016-April 60-65.
- [9] Minh, V.T., Mart, T., Moezzi, R., Oliver, M., Martin, J., Ahti, P., Leo, T., Mart, J. (2016). Performances of PID and different fuzzy methods for controlling a ball on beam. *Open Engineering*, 6(1): 145-151. <https://doi.org/10.1515/eng-2016-0018>
- [10] Hlava, J., Zemtsov, N., Frantsuzova, G. (2016). Application of PID controller based on the localization method for ancillary service provision. 2016 *International Siberian Conference on Control and Communications, SIBCON 2016 – Proceedings*. <https://doi.org/10.1109/SIBCON.2016.7491747>
- [11] Hlava, J. (2009). Hybrid modelling and control of a power plant three-stage reheater. *IFAC Proceedings Volumes*, 42(17): 32-37. <https://doi.org/10.3182/20090916-3-ES-3003.00007>
- [12] Hlava, J., Sulc, B. (2008). Advanced modelling and control using a laboratory plant with hybrid processes. *IFAC Proceedings Volumes*, 41(2): 14636-14641. <https://doi.org/10.3182/20080706-5-KR-1001.02479>
- [13] Tzounis, A., Katsoulas, N., Bartzanas, T., Kitta, C. (2017). Internet of things in agriculture, recent advances and future challenges. *Biosystems Engineering*, 164: 31-48. <https://doi.org/10.1016/j.biosystemseng.2017.09.007>
- [14] Popović, T., Latinović, N., Pešić, A., Zečević, Ž., Krstajić, B., Djukanović, S. (2017). Architecting an IoT-enabled platform for precision agriculture and ecological monitoring: A case study. *Computers and Electronics in Agriculture*, 140: 255-265. <https://doi.org/10.1016/j.compag.2017.06.008>
- [15] Ray, P.P. (2017). Internet of things for smart agriculture: Technologies, practices and future direction. *Journal of Ambient Intelligence and Smart Environments*, 9(4): 395-420. <https://doi.org/10.3233/AIS-170440>
- [16] Elijah, O., Rahman, T.A., Orikumhi, I., Leow, C.Y., Nour Hindia, M.H.D. (2018). An overview of Internet of Things (IoT) and data analytics in agriculture: Benefits and challenges. *IEEE Internet of Things Journal*, 5(5): 3758-3773. <https://doi.org/10.1109/JIOT.2018.2844296>
- [17] Petru, M., Novák, O., Lepšík, P. (2014). Analysis and measurement of the charge intensity of the selected electrospinning electrodes. *Applied Mechanics and Materials*, 486: 217-222. <https://doi.org/10.4028/www.scientific.net/AMM.486.217>
- [18] Minh, V.T., Moezzi R., Owe I. (2018). Fuel economy regression analyses for hybrid electric vehicle. *European Journal of Electrical Engineering*, 20(3): 363-377. <https://doi.org/10.3166/EJEE.20.363-377>
- [19] Hana, P., Inneman, A., Daniel, V., Sieger, L., Petru, M. (2015). Mechanical properties of carbon fiber composites for applications in space. Paper presented at the *Proceedings of SPIE - the International Society for Optical Engineering*, pp. 94420A. <https://doi.org/10.1117/12.2175925>
- [20] Prathibha, S.R., Hongal, A., Jyothi, M.P. (2017). IoT based monitoring system in smart agriculture. In *2017 International Conference on Recent Advances in Electronics and Communication Technology*, pp. 81-84. <https://doi.org/10.1109/icraect.2017.52>
- [21] Cyrus, J., Krcmarik, D., Moezzi, R., Koci, J., Petru, M. (2019). Hololens used for precise position tracking of the third party devices - autonomous vehicles. *Communications - Scientific Letters of the University of Zilina*, 21(2): 18-23.