A. D. and S. S. S. Kulkarni, “Proposed framework for V2V communication using Li-Fi technology,” *2017 Int. Conf. Circuits, Control. Commun. (CCUBE), Bangalore,* pp. 187–190, 2017.

[2] H. A. O. and W. Z. K. Abboud, “Interworking of DSRC and Cellular Network Technologies for V2X Communications: A Survey,” *IEEE Trans. Veh. Technol.*, vol. 65, no. 12, pp. 9457–9470, 2016.

[3] B. H. and H. D. S. J. Lianghai, A. Weinand, “Multi-RATs Support to Improve V2X Communication,” *2018 IEEE Wirel. Commun. Netw. Conf. (WCNC), Barcelona*, pp. 1–6, 2018.

[4] Y. Q. and R. Q. H. S. Gyawali, S. Xu, “Challenges and Solutions for Cellular based V2X Communications,” *IEEE Commun. Surv. Tutorials*, 2020.

[5] H.Rosier, “The details of V2X communication.” https://www.intelligent-mobility-xperience.com/the-details-of-v2x-communication-a-872631/.

[6] G. K. and F. G. K. Eshteiwi, K. Ben Fredj, “Performance analysis of peer-to-peer V2V wireless communications in the presence of interference,” *2017 IEEE 28th Annu. Int. Symp. Pers. Indoor, Mob. Radio Commun. (PIMRC), Montr.*, pp. 1–6, 2017.

[7] T. B. and A. Z. D. Boehmlaender, S. Hasirlioglu, V. Yano, C. Lauerer, “Advantages in Crash Severity Prediction Using Vehicle to Vehicle Communication,” *IEEE Int. Conf. Dependable Syst. Networks Work. Rio Janeiro*, pp. 112–117, 2015.

[8] T. Bey and G. Tewolde, “Evaluation of DSRC and LTE for V2X,” *IEEE 9th Annu. Comput. Commun. Work. Conf. (CCWC), Las Vegas, NV, USA*, pp. 1032–1035, 2019.

[9] H. P. Dai Nguyen and R. Zoltán, “The Current Security Challenges of Vehicle Communication in the Future Transportation System,” *IEEE 16th Int. Symp. Intell. Syst. Informatics (SISY), Subotica*, pp. 161–166, 2018.

[10] S. D. Gregory , Yoon Rebecca, Fikentscher Joshua , Doyle Charlene and J. P. Lukuc Mike,Simons Jim, Wang Jing Harding, “Vehicle-to-Vehicle Communications: Readiness of V2V Technology for Application,” *Tech Rep. DOT HS 812 014, U.S. Dep. Transp. United States,* 2014.

[11] R. Sabouni and R. M. Hafez, “Performance of DSRC for V2V communications in urban and highway environments,” *IEEE Can. Conf. Electr. Comput. Eng. (CCECE), Montr.*, pp. 1–5, 5245.

[12] A. D. and S. A. J. Thota, N. F. Abdullah, “V2V for Vehicular Safety Applications,” *IEEE Trans. Intell. Transp. Syst.*, vol. 21, no. 6, pp. 2571–2585, 2020.

[13] K. O. and S. I. Z. MacHardy, A. Khan, “V2X Access Technologies: Regulation, Research, and Remaining Challenges,” *IEEE Commun. Surv. Tutorials*, vol. 20, pp. 1858–1877, 2018.

[14] Y. P. and K. K. M. S. Hossen, M. Bang, “Performance analysis of an OFDM-based method for V2X communication,” *2014 Sixth Int. Conf. Ubiquitous Futur. Networks (ICUFN), Shanghai*, pp. 238–242, 2014.

[15] T. Maehata et al., “DSRC using OFDM for roadside-vehicle communication system,” *VTC2000-Spring. 2000 IEEE 51st Veh. Technol. Conf. Proc. (Cat. No.00CH37026), Tokyo, Japan*, vol. 1, pp. 148–152, 2000.

[16] R. M. and T. U. Atsushi Okawado, “Near ML detection using Dijkstra’s algorithm with bounded list size over MIMO channels,” *2008 IEEE Int. Symp. Inf. Theory, Toronto*, pp. 2022–2025, 2008.

[17] S. D. and M. Z. V. Kiray, “Improving Digital Electronics Education with FPGA technology, PBL and Micro Learning methods,” *Proc. 2013 IEEE Int. Conf. Teaching, Assess. Learn. Eng. (TALE), Bali*, pp. 445–448, 2013.

[18] Ian Kuon; Russell Tessier; Jonathan Rose, “FPGA Architecture: Survey and Challenges,” 2008.

[19] K. Georgopoulos et al., “An evaluation of vivado HLS for efficient system design,” *2016 Int. Symp. ELMAR, Zadar*, pp. 195–199, 2016.

[20] D. L. and F. M. D. O’Loughlin, A. Coffey, F. Callaly, “Xilinx Vivado High Level Synthesis: Case studies,” *25th IET Irish Signals Syst. Conf. 2014 2014 China-irel. Int. Conf. Inf. Commun. Technol. (ISSC 2014/CIICT 2014), Limerick*, pp. 352–356, 2014.

[21] “ug871-vivado-high-Ievel-synthesis-tutorial.” .

[22] “wp416-Vivado-Design-Suite.” .

[23] J. A. Del Puerto-Flores, J. Cortez, C. A. Gutiérrez, C. Del Valle-Soto, R. Velázquez and L. J. Valdivia, “Performance of MRC Detection in OFDM System with Virtual Carriers over V2V Channels,” *2019 IEEE 39th Cent. Am. Panama Conv. (CONCAPAN XXXIX), Guatemala City, Guatemala*, pp. 1–6, 2019.

[24] Hector Eduardo Aldrete Vidrio, “Sistema de comunicación multiportadora para el estándar 802.11p utilizando precodificación frecuencial y cancelación no lineal de interferencia,” 2019.

[25] “IEEE Draft Standard for Information Technology - Telecommunications and information exchange between systems - Local and metropolitan area networks - Specific requirements - Part 11: Wireless LAN Medium Access control (MAC) and Physical Layer (PHY) specif.” .

[26] T. Zemen, L. Bernadó, N. Czink, and A. F. Molisch, “Iterative time-variant channel estimation for 802.11p using generalized discrete prolate spheroidal sequences,” *IEEE Trans. Veh. Technol.*, vol. 61, no. 3, pp. 1222–1233, 2012, doi: 10.1109/TVT.2012.2185526.

[27] N. M. M. Channels, “An Adaptive Geometry-Based Stochastic Model for,” *IEEE Trans. Wirel. Commun.*, vol. 8, no. 9, pp. 4824–4835, 2009.

[28] C. X. Wang, X. Cheng, and D. Laurenson, “Vehicle-to-vehicle channel modeling and measurements: Recent advances and future challenges,” *IEEE Commun. Mag.*, vol. 47, no. 11, pp. 96–103, 2009, doi: 10.1109/MCOM.2009.5307472.

[29] X. Cheng *et al.*, “An improved parameter computation method for a MIMO V2V rayleigh fading channel simulator under non-isotropic scattering environments,” *IEEE Commun. Lett.*, vol. 17, no. 2, pp. 265–268, 2013, doi: 10.1109/LCOMM.2013.011113.121535.

[30] X. Cheng *et al.*, “Cooperative MIMO channel modeling and multi-link spatial correlation properties,” *IEEE J. Sel. Areas Commun.*, vol. 30, no. 2, pp. 388–396, 2012, doi: 10.1109/JSAC.2012.120218.

[31] I. Sen and D. W. Matolak, “Vehicle-vehicle channel models for the 5-GHz band,” *IEEE Trans. Intell. Transp. Syst.*, vol. 9, no. 2, pp. 235–245, 2008, doi: 10.1109/TITS.2008.922881.

[32] G. Acosta-Marum and M. A. Ingram, “Six time- and frequency- selective empirical channel models for vehicular wireless LANs,” *IEEE Veh. Technol. Mag.*, vol. 2, pp. 4–11, 2007.

[33] X. Cheng, Q. Yao, M. Wen, C. X. Wang, L. Y. Song, and B. L. Jiao, “Wideband channel modeling and intercarrier interference cancellation for Vehicle-to-Vehicle communication systems,” *IEEE J. Sel. Areas Commun.*, vol. 31, no. 9, pp. 434–448, 2013, doi: 10.1109/JSAC.2013.SUP.0513039.

[34] F. Pena-Campos, R. Carrasco-Alvarez, O. Longoria-Gandara, and R. Parra-Michel, “Estimation of fast time-varying channels in OFDM systems using two-dimensional prolate,” *IEEE Trans. Wirel. Commun.*, vol. 12, no. 2, pp. 898–907, 2013, doi: 10.1109/TWC.2013.010413.120624.

[35] M. O. Damen, H. El Gamal, and G. Caire, “On maximum-likelihood detection and the search for the closest lattice point,” *IEEE Trans. Inf. Theory*, vol. 49, no. 10, pp. 2389–2402, 2003, doi: 10.1109/TIT.2003.817444.

[36] D. Wübben, R. Böhnke, J. Rinas, V. Kühn, and K. D. Kammeyer, “Efficient algorithm for decoding layered space-time codes,” *Electron. Lett.*, vol. 37, no. 22, pp. 1348–1350, 2001, doi: 10.1049/el:20010899.

[37] S. Statistics, H. Vikalo, B. Hassibi, and H. Vikalo, “On the Sphere-Decoding Algorithm I .,” *IEEE Trans. Signal Process.*, vol. 53, no. 8, pp. 2806–2818, 2005.

[38] H. Moroga, T. Yamamoto, and F. Adachi, “Iterative overlap QRM-ML block detection for single-carrier MIMO transmission without CP insertion,” *Wirel. Pers. Commun.*, vol. 74, no. 4, pp. 1163–1177, 2014, doi: 10.1007/s11277-013-1570-5.

[39] K. Temma, T. Yamamoto, and F. Adachi, “Improved 2-step QRM-ML block signal detection for single-carrier transmission,” *IEEE Veh. Technol. Conf.*, no. 0, 2011, doi: 10.1109/VETECF.2011.6093118.

[40] C. C. Alatriste, Gabriel Torres, Olvera, “Modelo de Predicción de LEE,” pp. 25–43, 2007, [Online]. Available: https://tesis.ipn.mx/bitstream/handle/123456789/3523/MODELODEPREDICCION.pdf?sequence=1&isAllowed=y.

[41] J. A. Del Puerto-Flores, R. Parra-Michel, F. Peña-Campos, J. Cortez, and E. Romero-Aguirre, “Evaluation of OFDM Systems with Virtual Carriers over V2V Channels,” *2018 IEEE 9th Annu. Inf. Technol. Electron. Mob. Commun. Conf. IEMCON 2018*, no. 1, pp. 882–886, 2019, doi: 10.1109/IEMCON.2018.8615092.

[42] J. A. Del Puerto-Flores, L. C. Yllescas, R. Parra-Michel, F. Pena-Campos, and J. Cortez, “Performance Evaluation of Turbo Decoding in DFTS-OFDM Systems over V2V Channel,” *Proc. - 2018 10th IEEE Latin-American Conf. Commun. LATINCOM 2018*, 2019, doi: 10.1109/LATINCOM.2018.8613202.

[43] D. A. Ibarra and Ciudad Obregón, “Arquitectura en hardware de un detector OSIC para receptor SISO V2V,” 2020.