REFERENCES

Boschert S, Rosen R. (2016). *Digital twin—the simulation aspect.* Mechatronic futures. Cham: Springer; 59–74.

Cai, Y., Starly, B., Cohen, P., & Lee, Y.-S. (2017). Sensor Data and Information Fusion to Construct Digital-twins Virtual Machine Tools for Cyber-physical Manufacturing. *Procedia Manufacturing*, 10, 1031–1042. Retrieved from doi:10.1016/j.promfg.2017.07.094

Chen, Y., Zhen, Z., Yu, H., & Xu, J. (2017). Application of Fault Tree Analysis and Fuzzy Neural Networks to Fault Diagnosis in the Internet of Things (IoT) for Aquaculture. *Sensors*, 17(12), 153. Retrieved from: doi:10.3390/s17010153

Dachyar, M., Zagloel, T.Y.M., Saragih, L.R. (2019) Knowledge growth and development: internet of things (IoT) research, 2006–2018. *Heliyon,* 1-14. Retrieved from DOI: 10.1016/j.heliyon.2019.e02264

General Electric Company. (2016). *GE Digital Twin: Analytic Engine for the Digital Power Plant.* Retrieved from https://www.ge.com/digital/sites/default/files/download_assets/Digital-Twin-for-the-digital-power-plant-.pdf

Glaessgen, E., & Stargel, D. (2012). The Digital Twin Paradigm for Future NASA and U.S. Air Force Vehicles. 53rd AIAA/ASME/ASCE/AHS/ASC Structures, Structural Dynamics and Materials Conference
20th AIAA/ASME/AHS Adaptive Structures Conference
14th AIAA. Retrieved from doi:10.2514/6.2012-1818

IS0/TC184/SC4/WG15 (2019) ISO CD 23247-1: Digital Twin Manufacturing Framework—Part 1: Overview and General Principles. Under Development, ISO Available online: https://www.iso.org/standard/75066. html (accessed on 2 February 2020).

Jasa Pelayanan Pabrik (JPP) Pupuk Kaltim: Jasa Pelayanan Pabrik Pupuk Kaltim. (n.d.). Retrieved from http://index.jpp-pkt.com/jasa-pelayanan-pabrik-jpp-pupuk-kaltim

Kritzinger, W., Karner, M., Traar, G., Henjes, J., & Sihn, W. (2018). Digital Twin in manufacturing: A categorical literature review and classification. *IFAC-PapersOnLine*, 51(11), 1016–1022. doi:10.1016/j.ifacol.2018.08.474

Martinez, V., et al (2018). *Service business model innovation: the digital twin technology* [working paper], retrieved January 5, 2020 from Cambridge Service Alliance, University of Cambridge:

https://cambridgeservicealliance.eng.cam.ac.uk/resources/Downloads/Monthly%20Papers/copy_of_AllianceNovember2018Paper.pdf

McKinsey Global Institute (2015). *The Internet of Things: Mapping the value beyond the hype.*

Microsoft Corporation. (2017). *Best practices for designers and manufacturers of products and industrial equipment* [White paper]. Retrieved October 10, 2018 from https://info.microsoft.com/rs/157-GQE-382/images/Microsoft's%20Digital%20Twin%20'How-To'%20Whitepaper.pdf

Munoz, A., Mahiques, X., Solanes, J.E., Marti, A., Gracia, L., Tornero, J.,(2019).Mixed reality-based user interface for quality control inspection of car body surfaces. Journal of Manufacturing Systems, 53, 75-92.

Negri, E., Fumagalli, L., & Macchi, M. (2017). A review of the roles of Digital Twin in CPS-based production systems. *Journal of Manufacturing Systems*, 11, 75-92.

Padovano, A., Longo, F., Nicoletti, L., & Mirabelli, G. (2018). A Digital Twin based Service Oriented Application for a 4.0 Knowledge Navigation in the Smart Factory. *IFAC-PapersOnLine*, 51(11), 631–636. Retrieved from: doi:10.1016/j.ifacol.2018.08.389

Patriarca, R.; Falegnami, A.; De Nicola, A.; Villani, M.L.; Paltrinieri, N. Serious games for industrial safety: An approach for developing resilience early warning indicators. Saf. Sci. 2019, 118: 316–331

PTC, Inc. (2019). *Top Use Cases for Digital Twin Technology to Drive Digital Transformation.* Retrieved from https://www.ptc.com/-/media/Files/PDFs/IoT/J12599_DigiTwin_Use_Cases_ebk_v8_lowres.pdf

Perwej, Y. (2019). The Internet of Things (IoT) and its Application Domains. *International Journal of Computer Applications*, 182(49), 36-49. Retrieved from: DOI: 10.5120/ijca2019918763

Pettey, C. (2017, September 18). Prepare for the Impact of Digital Twins, *Smarter with Gartner,* Gartner Inc., accessed April 20, 2020. Retrieved from: https://www.gartner.com/smarterwithgartner/prepare-for-theimpact-of-digital-twins/.

Putnik, G., Sluga, A., Elmaraghy, H., Teti, R. et al., (2013) "Scalability in Manufacturing Systems Design and Operation: State-of-the-Art and Future Developments Roadmap," *CIRP Annals - Manufacturing Technology* 62(2):751-774, Retrieved from doi:10.1016/j.cirp.2013.05.002.

Pwc-Strategy&. (2016, August 25) "Connect and Optimize: The New World of Digital Operations," accessed March. 15, 2020. Retrieved from https://www.strategyand.pwc.com/media/file/Connect-and-optimize.pdf.

Qi, Q., Tao, F., Hu, T., Anwer, N., Liu, A., Wei, Y., & Nee, A. Y. C. (2019). Enabling technologies and tools for digital twin. *Journal of Manufacturing Systems*. Retrieved from doi:10.1016/j.jmsy.2019.10.001

Rabah, S., Assila, A., Khouri, E., Maier, F., Ababsa, F., bourny, V., Mérienne, F. (2018). Towards improving the future of manufacturing through digital twin and augmented reality technologies. *Procedia Manufacturing*, 17, 460–467.

Robinson, S., & Brooks, R. J. (2009). Independent Verification and Validation of an Industrial Simulation Model. *SIMULATION*, 86(7), 405–416. Retrieved from doi:10.1177/0037549709341582

Siemens PLM Software. (2017). MindSphere The cloud-based, open IoT operating system for digital transformation [whitepaper]. Retrieved from https://iiot-world.com/wp-content/uploads/2017/03/Siemens_MindSphere_Whitepaper.pdf

Singh, S., Shehab, E., Higgins, N., Fowler, K., Tomiyama, T., & Fowler, C. (2018). Challenges of Digital Twin in High Value Manufacturing. SAE Technical Paper Series. Retrieved from doi:10.4271/2018-01-1928

Stackowiak, R. (2019) *Azure IoT Solutions Overview BT—Azure Internet of Things Revealed: Architecture and Fundamentals*. Apress: Berkeley, CA, USA.

Tao F, Liu W, Zhang M, et al (2019) Five-dimension digital twin model and its ten applications. *Comput Integr Manuf Syst,* 25(1):1–18. Retrieved from DOI: 10.13196/j.cims.2019.01.001

Tao, F. & Qi, Q. (2017). New IT Driven Service-Oriented Smart Manufacturing: Framework and Characteristics. *IEEE Transactions on Systems, Man, and Cybernetics: Systems*, 1–11. Retrieved from doi:10.1109/tsmc.2017.2723764

Vermessan, O., Friess, P. (2015) *Building the Hyperconnected Society: Internet of Things Research and Innovation Value Chains, Ecosystems, and Markets.* Denmark: River Publishers.

Yao, B., Zhou, Z., Wang, L., Xu, W., Yan, J., & Liu, Q. (2018). A function block based cyber-physical production system for physical human–robot interaction. *Journal of Manufacturing Systems.* Retrieved from doi:10.1016/j.jmsy.2018.04.010