

Research Publications

1. **Ud Din F.**, Paul D., “*Demystifying the Concept of Digital Twin in the Context of Cyber Physical System, xAOSF/AOSR Architecture and Industry 4.0*”, Accepted in IntelliSys, Amsterdam, Springer LNNS Series - Lecture Notes in Networks and System (2022).
2. **Ud Din F.**, Paul D., Ryan, J., Henskens F., Wallis M., “*AOSR 2.0: A Novel Approach and Thorough Validation of Agent Oriented Storage and Retrieval WMS planner for SMEs, under Industry 4.0*”, Journal of Future Internet 13.6 (2021): 155.
3. **Ud Din F.**, Henskens F., Paul D., Wallis M., “*Conceptualised Visualisation of Extended Agent Oriented Smart Factory (xAOSF) framework with associated AOSR-WMS system*”, Journal of Software, 16(4) 2021.
4. **Ud Din F.**, Paul D, Ryan Joe, Henskens F., Wallis M., “*Revitalising and Validating the Novel Approach of xAOSF framework under Industry 4.0 in comparison with Linear SC*”, Agents and Multi-Agent Systems: Technologies and Applications 2020. KES-AMSTA-20. Smart Innovation, Systems and Technologies. Springer, Cham.
5. **Ud Din F.**, Paul D., Ryan, J., Henskens F., Wallis M., “*Validating Time Efficiency of AOSR 2.0: A Novel WMS Planner Algorithm for SMEs, under Industry 4.0*”, Journal of Software, 15(2) 2020.
6. **Ud Din F.**, Henskens F., Paul D., Wallis M. and Hashmi M., “*AOSR-WMS planner associated with AOSF framework for SMEs, under Industry 4.0*”, International Journal Applied Decision Science 13(2) 2021
7. **Ud Din F.**, Henskens F., Paul D., Wallis M. "Agent-Oriented Smart Factory (AOSF): An MAS Based Framework for SMEs Under Industry 4.0", In: Jezic G., Chen-Burger YH., Howlett R., Jain L., Vlacic L., Sperka R. (eds) Agents and Multi-Agent Systems: Technologies and Applications 2018. KES-AMSTA-18 2018. Smart Innovation, Systems and Technologies, vol 96. Springer, Cham
8. **Ud Din F.**, Henskens F., Paul D., Wallis M., "Formalisation of Problem and Domain Definition for Agent Oriented Smart Factory (AOSF)", in IEEE Region Ten Symposium (Tensymp), pp. 265-270, IEEE, 2019.
9. Masood, B., Usman, M., **Ud Din F.**, and Haider, A, "Effect of transient and non-transient models on the performance of PLC." Telecommunication Systems 65, no. 1 (2017): 55-64. Springer
10. Raza AR, Jaffery MH, Ghauri M, **Ud Din F.**, “*Analysis and Performance Evaluation of Proposed Organic Rankine Cycle*”, Journal of Basic and Applied Scientific Research 4 (8), 214-219, 2014
11. Mehmood Z, **Ud Din F.**, “*Role of Location Identification in CRIMS in the Perspective of Pakistan*”, in print proceedings of International Conference on Engineering and Emerging Technologies, 2014
12. **Ud Din F.**, Saroop-Anwer, “*Study of CSF’s in ERP Implementation and its Impact on Supply Chain Logistical Performance in Developing Countries*”, in print proceedings of International Conference of Management and Research, ICMR, 2013
13. **Ud Din F.**, Anwer S., “*ERP Success and Logistical Performance Indicators A Critical View*”, International Journal of Computer Science Issues 10 (6), 223-229, 2013
14. **Ud Din F.**, Atta-ur-Rehman-Shah, Ibrahim-Khan, “*Mobile-phone Based Remote Patient's Vital Signs Monitoring and Automated Alerts*”, International Journal of Computer Science and Mobile Application 1 (4), 39-48, 2013
15. **Ud Din F.**, Raza AR, Azam M, “*Disruptions and Malfunction Control in ORC using Spiral Predictive Model*”, American Journal of Electrical Power and Energy Systems 2 (6), 144-148, 2013

16. Masood B., **Ud Din F.**, Baig S., “Role of Narrow-Band Low Data Rate Power Line Communication in Smart Grids and Noise Reduction Strategy”, World Applied Sciences Journal 26 (12), 1595-1601