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- [2] Management, Vol. 19, No. 1, 2010, pp. 1-18. doi:10.1111/j.1937-5956.2009.01057.x
- M. Amini, R. F. Otondo, B. D. Janz and M. G. Pitts, "Simulation Modeling and Analysis: A Collateral [3] Application and Exposition of RFID Technology," Production and Operations Management, Vol. 16, No. 5, 2007, pp. 586-598. doi:10.1111/j.1937-5956.2007.tb00282.x
- Z.-X. Chen, "The Application of RFID Technology and Logistics," Commercial Research, Vol. 266, No. [4] 6, 2003, pp. 138-142.
- H. Amoozad-khalili, R. Tavakkoli-Moghaddam and N. Shahab-Dehkordi, "Influence of Radio [5] Frequency Identification Technology in Logistics, Inventory Control and Supply China Optimization," World Academy of Science, Engineering and Technology, Vol. 69, No. 1, 2010, pp. 63-68.
- C. Zang and Y. Fan, "Complex Event Processing in Enterprise Information Systems Based on RFID," [6] Enterprise Information Systems, Vol. 1, No. 1, 2007, pp. 1-3.
- [7] O. Gunther, W. Kletti and U. Kubach, "RFID in Manufacturing," 1st Edition, Springer, Berlin, 2008,
- [8] A. Pradhan, E. Ergen and B. Akinci, "Technological Assessment of Radio Frequency Identification Technology for Indoor Localization," Journal of Computing in Civil Engineering, Vol. 23, No. 3, 2009, pp. 230-238. doi:10.1061/(ASCE)0887-3801(2009)23:4(230)
- [9] Z.-X. Chen and J.-H. Gong, "Current Application Situation and under Certain Rules, Meaningful Events Trickle Development of Logistics Simulation Software," Journal of Zhejiang Gongshang

- University, Vol. 85, No. 4, 2007, pp. 29-34.
- [10] H.-J. Mao, H.-T. Guo, C. L. Ma, X.-H. Li and J. He, "Modeling and Analysis of Steel Logistics Center Based Automod Simulation Platform," Journal of Southeast University (Natural Science Edition), Vol. 38, No. 2, 2008, pp. 314-318.
- [11] Z.-Y. Jiang, H.-F. Kang and X.-C. Huang, "A Platform Non-ferrous Metal Three-Dimensional warehousing Depositing System Simulation Analysis Based on AutoMod Simulation," Machinery Design & Manufacture, No. 8, 2010, pp. 258-260.

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