Keynote Speech

Logistics Management in Emerging E-commerce

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Abstract: China is the largest e-commerce market since 2014. The large-scale online supermarket has been developed rapidly in recent years. Meanwhile, the delivery mode and business mode are became key problems in the emerging E-commerce. Vehicle Routing Problem (VRP), which is a NP-hard problem, has attracted a great number of research efforts in the areas of operations research, management science and transportation science. VRP under E-commerce environment reveals several new features, for example, with more delivery points, its delivery points being scattered over a broader area, small delivery volume, with strict delivery time window, which make it be a larger size and more complex and difficult to solve. We aim to shorten the gap and improve the rationality of the work of simplification with the consideration of some quantitative influential factors. Based on the above ideas, we present an Integration Solution of Qualitative and Quantitative Processes and set up a Knowledge-based Generating System of Vehicle Routing Schemes to deliver goods. Firstly, we present A farm-to-door delivery mode for organic vegetables and its Vehicle Routing Schemes connect farmers and customers directly in metropolises of China, under the circumstance of mobile commerce (M-commerce). Secondly, some researches what we are doing----Multi-item order fulfillment for large-scale online supermarket have been introduced. Finally, a few special issues in the future researches on cross-border e-commerce and Online Pharmacy Store have been discussed.

Biography of Prof. Xiangpei Hu

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Dr. Hu received his BS, MS and PhD Degrees from Harbin Institute of Technology in 1983, 1987 and 1996 respectively. He received National Distinguished Young Scholars Award from National Natural Science Foundation of China in 2007, New Century Excellent Talent honored by Ministry of Education of China in 2007, Life Fellow of International Society of Management Engineers in 2009, and Chang-Jiang Scholars Distinguished Professor from Ministry of Education of China in 2010. His research and teaching interests focus on Electronic Commerce, Supply Chain and Logistics Management, Intelligent Operations Research and the Real-Time Optimization Control for Dynamic Systems. Dr. Hu serves on five journal editorial boards. He is currently a visiting professor at Harbin Institute of Technology, Zhejiang University, and Hefei University of Technology. He has undertaken dozens of funded research projects and published over 100 scholarly articles.