Incentive Mechanism Design for Crowd Systems
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Abstract
Crowd systems can help solve complicated problems through the coordinated behaviors of many non-expert agents. A key to success is to incentivize enough agents to participate and exert efforts. We will introduce the challenges and opportunities of incentive mechanism designs in diverse types of crowd systems.

Biography
Jianwei Huang is a Presidential Chair Professor and Associate Vice President of the Chinese University of Hong Kong, Shenzhen, and the Associate Director of Shenzhen Institute of Artificial Intelligence and Robotics for Society. He received the Ph.D. degree in ECE from Northwestern University in 2005, and worked as a Postdoc Research Associate in Princeton University during 2005-2007. From 2007 until 2018, he was on the faculty of Department of Information Engineering, The Chinese University of Hong Kong. His research interests are in the area of network optimization, network economics, and network science, with applications in communication networks, energy networks, data markets, and crowd intelligence. He has published 320+ papers in leading international venues, with a Google Scholar citation of 15000+ and an H-index of 62. He has co-authored 11 Best Paper Awards, including the 2011 IEEE Marconi Prize Paper Award in Wireless Communications (together with Prof. Angela Zhang). He has co-authored seven books, including the textbook on "Wireless Network Pricing." He has been an IEEE Fellow, an IEEE ComSoc Distinguished Lecturer, a Clarivate Web of Science Highly Cited Researcher, and an Elsevier Most Cited Chinese Researcher. He is the Editor-in-Chief of IEEE Transactions on Network Science and Engineering (TNSE), and was an Associate Editor-in-Chief of IEEE Open Journal of the Communications Society (OJ-COM).

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