

PLATFORM-BASED FUNCTION REPERTOIRE, REPUTATION, AND SALES PERFORMANCE OF E-MARKETPLACE SELLERS

Huifang Li

International Institute of Finance, School of Management, University of Science and Technology of China, Hefei 230026 CHINA, and Faculty of Management and Economics, Dalian University of Technology, Dalian 116024 CHINA {huifangli3@gmail.com}

Yulin Fang and Kai H. Lim

Department of Information Systems, College of Business, City University of Hong Kong, Hong Kong SAR, CHINA {ylfang@cityu.edu.hk} {iskl@cityu.edu.hk}

Youwei Wang

Department of Information Management and Information Systems, School of Management, Fudan University, Yangpu District, Shanghai 200433, CHINA {ywwang@fudan.edu.cn}

Appendix A

Examples of Platform-Based Functions in E-Marketplace



Figure A1. Platform-Based Functions in E-Marketplace (Taobao)



Figure A2. Platform-Based Functions in E-Marketplace (Taobao)



Appendix B

Categories of Platform-Based Functions in E-Marketplace ■

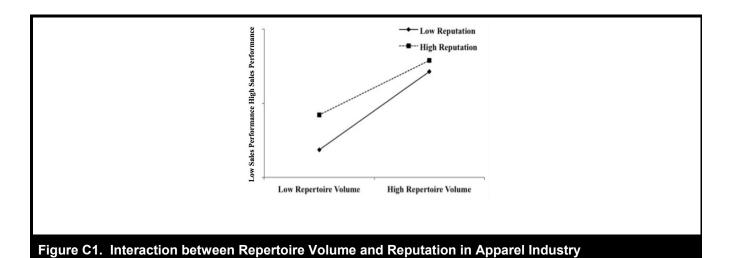
| | | Definitions | | | | |
|---|--|---|--|--|--|--|
| Platform-Based Functions | | An online function provided by the Taobao platform that allows sellers to: | | | | |
| Pricing- Oriented Functions | Time-Limited Discount | Specify the degree of and the time period for product discount. | | | | |
| | Buy-it-Now Option | Specify the degree of price reductions within extremely short periods. | | | | |
| | Cumulative Quantity Discount with Price Cuts | Set price reductions based on the quantity purchased, whereby buyers receive discounts when their purchasing amounts reach a certain value. | | | | |
| | Cumulative Quantity Discount with Free Postage | Set price reductions based on the quantity purchased, whereby buyers receive free postage when their purchasing amount reaches a certain value | | | | |
| | Cumulative Quantity Discount with Credits | Set price reductions based on the quantity purchased, whereby buyers receive credits when their purchasing amount reaches a certain value. | | | | |
| | Cumulative Quantity Discount with Gift | Set price reductions based on the quantity purchased, whereby buyers receive a gift when their purchasing amount reaches a certain value. | | | | |
| | Shop VIP | Set price reductions based on the quantity purchased, whereby buyers receive special privileges from the shop, usually a price discount. | | | | |
| | Platform VIP | Set price reductions based on the quantity purchased, whereby buyers receive special privileges (usually price discount) from all the shops that support the functions. | | | | |
| | Bundling | Set price reductions based on the quantity purchased, whereby buyers receive a price discount if they buy a couple of goods simultaneously. | | | | |
| | Coupons | Set price reductions based on the quantity purchased, whereby buyers receive a discount, either a specified amount or a percentage, when they hold a virtual voucher. | | | | |
| Marketing- Oriented Functions | Pay for Performance | Use paid advertising provided by the transaction platform, and be charged according to advertising effectiveness. | | | | |
| | Hyperlink Advertisement | Use <i>product spreaders</i> who help sellers promote their products and charge according to effectiveness. | | | | |
| | Purchasing Agency Community | Accept orders placed in some <i>bricks-and-mortar stores</i> that are authorized by and affiliated to the platform. | | | | |
| | Luxurious Shop Interface | Use personalized online shop interface provided by Taobao. | | | | |
| Product Presentation- | Zoom Function | Use zoom technology that shows the details of the products. | | | | |
| Oriented Functions | Pictures of Real Products | Use <i>real photos taken by sellers</i> (rather than copied from manufacturers or other third parties). | | | | |
| Payment- Oriented Functions | Credit Card | Support payment through credit card. | | | | |
| | Cash on Delivery | Support payment by cash when buyers receive the goods. | | | | |
| Aftersales Service- Oriented Functions | Money-Back Guarantee within 7 Days | Reimburse within 7 days after purchasing without reason. | | | | |
| | Three Times Compensation for Fake Products | Reimburse three times the monetary value of the product if it is found to be fake. | | | | |
| | Consumer Protection Scheme | Join the consumer rights protection plan issued by the platform. | | | | |
| | Free Repair within 30 Days | Offer maintenance service for free within 30 days after purchasing. | | | | |

Appendix C

Empirical Results for Apparel Industry ■

| Table C1. Results of Fixed-Effects Model with Robust Standard Errors in Apparel Industry | | | | | | | | | | |
|--|---------------------|----------------------|---------------------|----------------------|----------------------|----------------------|----------------------|----------------------|--|--|
| Variables | Model 1 | Model 2 | Model 3 | Model 4 | Model 5 | Model 6 | Model 7 | Model 8 | | |
| Ln(Number of Low Price Products) | -0.037* (0.019) | -0.063*** (0.018) | -0.062** (0.018) | -0.060** (0.018) | -0.068*** (0.018) | -0.067*** (0.018) | -0.067*** (0.018) | -0.065*** (0.018) | | |
| Ln(Number of Mid-Price Products) | 0.017 (0.022) | -0.025 (0.021) | -0.027 (0.021) | -0.025 (0.022) | -0.035 (0.022) | -0.036 (0.022) | -0.036 (0.022) | -0.035 (0.022) | | |
| Ln(Number of High Price Products) | 0.102*** (0.017) | 0.120*** (0.017) | 0.115*** (0.017) | 0.115*** (0.017) | 0.120*** (0.017) | 0.118*** (0.017) | 0.118*** (0.017) | 0.117*** (0.017) | | |
| Ln(Response Speed of Instant Message) | 0.076*** (0.008) | 0.072*** (0.008) | 0.073*** (0.008) | 0.072*** (0.008) | 0.077*** (0.008) | 0.077*** (0.008) | 0.076*** (0.008) | 0.075*** (0.008) | | |
| Ln(Delivery Time) | 0.048** (0.020) | 0.052** (0.020) | 0.052** (0.020) | 0.053** (0.020) | 0.051** (0.020) | 0.050** (0.020) | 0.050** (0.020) | 0.050** (0.020) | | |
| Repertoire Volume (H1 _a) | | 0.121*** (0.012) | 0.114*** (0.012) | 0.121*** (0.014) | 0.119*** (0.014) | 0.126*** (0.014) | 0.125*** (0.014) | 0.126*** (0.014) | | |
| Repertoire Complexity (H2 _a) | | | 0.485* (0.161) | 0.381* (0.187) | 0.372* (0.186) | 0.306* (0.184) | 0.308* (0.183) | 0.309* (0.183) | | |
| Repertoire Heterogeneity (H3 _a) | | | | -0.099* (0.086) | -0.118* (0.086) | -0.139* (0.087) | -0.139* (0.087) | -0.154* (0.087) | | |
| Reputation | | | | | 0.048*** (0.008) | 0.024** (0.009) | 0.030** (0.010) | 0.047*** (0.011) | | |
| Volume * Reputation (H1 _b) | | | | | | -0.016*** (0.003) | -0.011** (0.004) | -0.025*** (0.006) | | |
| Complexity * Reputation (H2 _b) | | | | | | | 0.118 (0.058) | 0.111 (0.075) | | |
| Heterogeneity * Reputation (H3 _b) | | | | | | | | 0.238*** (0.047) | | |
| Constant | 5.465*** (0.093) | 5.679*** (0.092) | 5.691*** (0.092) | 5.679 *** (0.092) | 5.717*** (0.092) | 5.729*** (0.092) | 5.728*** (0.092) | 5.721*** (0.092) | | |
| F test | 31.47*** | 38.4*** | 34.52*** | 30.55*** | 29.25*** | 28.66*** | 26.82*** | 25.38*** | | |
| R-square | 7.18% | 25.69% | 25.70% | 25.72% | 25.77% | 25.91% | 26.00% | 26.21% | | |
| R-square Change | _ | 18.51% | 0.01% | 0.02% | 0.05% | 0.14% | 0.09% | 0.21% | | |

Notes: The dependent variable is Ln(SalesPerformance); Number of observations = 42,480; Number of sellers = 1,062; Robust Standard Errors in parentheses. $^*p < 0.05, ^{**}p < 0.025, ^{***}p < 0.001$, one-tailed tests.



Low Competitive Heterogeneity High Competitive Heterogeneity

Figure C2. Interaction between Repertoire Heterogeneity and Reputation in Apparel Industry