Empirical Analysis of Demand Patterns and Availability in Free-Floating Carsharing Systems

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-thitract -- Carsharing (CS) services enable users not to have to depend on a privately owned vehicle by supplying cars for spontaneous rental. Optimized service, higher system availability and a more efficient urban transportation system. can be obtained by analyzing a wide usage behavior and diurnal patterns within such a system. In order to gain a deeper understanding of the spatio-temporal behavior of such a service, it is vital to distinguish different demand patterns occurring within urban areas. We therefore analyze the demand for carsharing in the city of Munich, Germany. Based on data of a free-floating carsharing (FFCS) service provider we analyze rentals, drop-offs, and resulting availability of vehicles within different urban areas as well as developdiurnal demand patterns and cluster these by incorporating an incremental cross-correlation clustering. The compiled pattern clusters reveal notable distinctions in terms of demand, returns, and vehicle availability between the examined areas. By recognizing and analyzing these distinctions, FFCS will be able to adapt to new business areas, service operation, and pricing strategies in order to optimize Charle service.

Keywords—carsharing, demand patterns, usage behavior, spacial analysis

I. INTRODUCTION:

Over the years FFCS services have gained popularity most notably among urban dwellers in large cities [1]. The idea behind this success is the opportunity for users to choose the best means of transportation available for every single leg of a daily itinerary through a city solely depending on factors like location, destination, urgency, baggage, or traffic situation. This decision is independent of any regret leaving the own car somewhere in the city to be recollected later, since it was not utilized in the first place. However, this flexibility for users implies a big challenge for FFCS system operators. In order to operate such a system, it is vital to understand customers' demand and behavior to optimize the system in terms of spatial and temporal supply of vehicles. So far, research primarily focused on whole systems and analyzed demand rather as a holistic phenomenon occurring uniformly over the considered business area of a provider. In this work, a microscopic analysis of selected areas was performed in order to find differences in demand, drop-offs, and availability, which facilitate local optimization approaches. By analyzing rental data of a German FFCS provider, diurnal patterns of demand, drop-offs, and availability for each of the selected areas were derived. Furthermore, compiled demand patterns were clustered by utilizing an incremental cross-correlation clustering, revealing two main types of demand patterns. Moreover, special areas with distinct patterns were found, not resembling those of revealed main clusters. Knowledge of such patterns and their distribution among areas can help to optimize the business area's shape, service operations, as well as the application of pricing strategies, enhancements in supplying vehicles to customers in demand, and a general understanding for other purposes like city planning or optimization of fleet operations with autonomous vehicles. This paper is structured as follows: an outline of current research within this topic is given. Then the current state of CS is characterized and the motivation on demand patterns and their applications is presented. Subsequently, the incorporated data and the applied implementation are described. The resulting patterns are then presented and analyzed. In the final section, results are discussed as well as future opportunities.

II. RELATED WORK

There have been various studies analyzing demand within sharing systems. An empirical analysis of FFCS data was conducted in [2]. By analyzing rental data from the cities of Berlin, Germany, and Munich, Germany, the development of CS in these cities could be characterized. The authors were able to show temporal variability in rentals as well as usage differences between particular weekdays by outlining an average weekday pattern that is consistent over two cities. Diurnal usage and specific differences in average patterns of both cities were revealed. Furthermore, spatial hotspots of usage based on the starting locations of the considered bookings were identified. After all, authors gave an insight of the usage of an FFCS system as a whole but do not analyze usage patterns on a more local level.

Focusing on a bike sharing (BS) system in Paris, France,

Empirical Analytics Of Demand Systems

Alan A. Powell

Empirical Analytics Of Demand Systems:

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econometrics statistics demand analysis information theory economic policy analysis aggregation theory forecasting index numbers management science sociology operations research higher education and much more The collection is also intended to serve as a tribute to him on the occasion of his 67th birthday These three volumes also highlight some of Theil s contributions and service to the profession as a leader advisor administrator teacher and researcher Theil s contributions which encompass many disciplines have been extensively cited both in scientific and professional journals These citations often place Theil among the top 10 researchers ranked according to number of times cited in the world in various disciplines

Market Interrelationships and Applied Demand Analysis Michael K. Wohlgenant, 2021-06-28 This textbook addresses the core issues facing economists concerning price determination in commodity markets especially food and agricultural commodities This book hones in on the conceptual basis of the various relationships with special emphasis on market interrelationships both horizontally and vertically This book covers key concepts such as consumer demand theory quality heterogeneous goods and cross section demand derived demand marketing margins and relationship between output and raw material prices retail to farm demand linkages imperfect competition and short run price determination dynamic consumer demand and dynamic models of the firm What makes this textbook of particular use to students is its focus on bridging the gap between theory and empirical analysis Going from theory to empirics requires that we have data time series or cross section that match the theoretical constructs Often the data match is not perfect either by definition or how the data are computed In addition to problems of matching data with theoretical constructs students and researchers need to know how to specify estimate and interpret results within the context of imperfect and often incomplete data This textbook uses several data sets to illustrate how one might address problems in real world settings Furthermore with exercises at the end of each chapter students are able to test themselves on their ability to bring theory to life FCC Record United States. The Effect of Food Price and Income Changes on the Acquisition of Food by Federal Communications Commission.2003 Low-income Households Harold Alderman.1986 Taxation and Economic Behaviour: Introductory surveys in economics John Creedy, 2001-01-01 This volume offers a number of broad introductory surveys in public economics and public finance Divided clearly into two parts measurement issues and taxation and economic behaviour the collection consists of published refereed papers and several unpublished pieces Advances in Econometrics and Modelling B. Raj, 2013-03-09 During 1985 86 the acquisition editor for the humanities and social sciences division of Kluwer Academic Publishers in the Netherlands visited the University of Horida where I was also visiting while on sabbatical leave from Wilfrid Laurier University as the McKethan Matherly Senior Research Fellow to discuss publishing plans of the faculty He expressed a keen interest in publishing the proceedings of the conference of the Canadian Econometric Study Group CESG that was to be held the following year at WLU This volume is the end product of his interest endurance and persistence But for his persistence I would have given up on th project Most of the papers though not all included in this volume are based on presentations at

CESG conferences In some cases scholars were invited to contribute to this volume where their research complimented those presented at these conferences even though they were not conference participants Since papers selected for presentation at the CESG conferences are generally the finished product of scholarly research and often under submission to refereed journals it was not possible to publish the conference proceedings in their entirety Accordingly it was decided in consultation with the publisher to invite a select list of authors to submit significant extensions of the papers they presented at the CESG conferences for inclusion in this volume The editor wishes to express gratitude to all those authors who submitted their papers for evaluation by anonymous referees and for making revisions to conform to our editorial process Copyright Entries. Third Series Library of Congress. Copyright Office,1976 Money, Wealth and Expenditure Dorian Owen, 1986-07-31 The book develops and applies a modelling framework that enables consumers expenditure and portfolio behaviour to be analysed in an integrated manner It extends and applies the Yale approach to financial model building associated with James Tobin The basis of this approach is surveyed with particular emphasis on the empirical implementation of portfolio models in the UK US and other countries appropriate econometric estimation techniques and comparisons with other monetary modelling strategies Empirical application of the model is particularly addressed to testing whether the composition of wealth holdings is important for expenditure and asset demands whether concentration on money at the expense of other assets and liabilities is acceptable and whether the interrelationships stressed by Tobin s general equilibrium approach are statistically important. The results have important implications for the recent literature on wealth effects on consumption and the overemphasis on money at the expense of other financial assets and liabilities in root and tuber crops technologies for sustainable food security, improved nutrition, wealth creation and environmental conservation in Africa: proceedings of the 9th ISTRC-AB symposium. Mombasa, Kenya, 1-5 Nov. 2004, Artificial Intelligence, Big Data, IOT and Block Chain in Healthcare: From Concepts to Applications Yousef Farhaoui, 2024-08-17 This book covers a wide range of topics related to the integration of Artificial Intelligence Big Data IoT and Blockchain From Concepts to Applications It begins by establishing a solid foundation and introducing the concepts and principles of each technology. The subsequent chapters delve into the various applications and use cases providing readers with real world examples of how AI IoT and Blockchain can be leveraged to address key challenges in Smart Environments Data is becoming an increasingly decisive resource in modern societies economies and governmental organizations Data science Artificial Intelligence and Smart Environments inspire novel techniques and theories drawn from mathematics statistics information theory computer science and social science This book reviews the state of the art of big data analysis Artificial Intelligence and Smart Environments It includes issues that pertain to signal processing probability models machine learning data mining databases data engineering pattern recognition visualization predictive analytics data warehousing data compression computer programming smart city etc The papers in this book were the outcome of research conducted in this

field of study The latter makes use of applications and techniques related to data analysis in general and big data and smart cities in particular The authors hope that this book serves as a valuable resource and guide for readers empowering them to navigate the intricate landscape of Artificial Intelligence IoT and Blockchain in Smart Environments Let the authors embark on this transformative journey together as the authors explore the concepts and applications that hold the potential to shape the future of Smart Environments The book appeals to advanced undergraduate and graduate students post doctoral researchers lecturers and industrial researchers as well as anyone interested in big data analysis and Artificial Intelligence

China's Grain Economy Liming Wang, John Davis, 2019-06-03 This book was originally published in 2000 China is the largest developing country in the world and is still heavily based on agriculture Currently about 70 per cent of China's total of more than one bilion people live in rural areas and about half of the total national labour force is involved in agricultural activities It is clear that agriculture is the foundation for the development of the Chinese national economy Within agriculture the grain economy is the most important sector indeed it has been recognised as a treasure in managing the country by all past Chinese dynasties Ensuring enough grain supply to meet the demands of such a huge population seems to be a long term goal for the Chinese government and this book explores whether China will be able to produce enough grain to keep pace with its population increases Vertical Relationships and Coordination in the Food System Giovanni Galizzi, Luciano Venturini, 2012-12-06 New analysis and empirical evidence on several topics such as the determinants of shape and nature of the vertical relationships in the food system the determinants of vertical co ordination and competition types and mechanisms of co ordination as well as the consequences for competitiveness consumer welfare and policy implications are provided The focus is on vertical issues at different stages of the food chain with a particular emphasis on the increasing role played by retailers in shaping the vertical relationships in the food system through the development of food supply chain management China's Fiscal Policy Gao Peiyong, 2018-05-16 Fiscal policy has always been a primary measure of macroeconomic control The fiscal revenue and expenditure can influence the operation of the whole economic and social activities by changing the existing GDP distribution pattern affecting the consumption and investment of enterprises and people etc Within the framework of macroeconomic analysis this book reviews the evolution of China's fiscal policy and the main changes China's economy has experienced since 1990s To begin with it makes an empirical research of China's national debts including their relationship with macroeconomic regulation and total social demand Besides it examines the economic effect mechanism of national debts issuance Then it focuses on the taxation issues elucidating the sources of tax revenue growth and the judgments on tax burden The issue of tax reduction is also covered especially its complexity in China Lastly it provides insights into China's fiscal tendency changes of macroeconomic policies and financial operation in the context of the New Normal Scholars and students in economics finance and Chinese economic studies will be attracted by this book Also it will appeal to readers interested in modern Chinese economic history

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