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***Artificial  
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It is suitable to any readers who have

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interest to know what will be (AI) products development to be applied in different industries to satisfy human life need in the future.

Artificial Intelligence (AI) in Healthcare is more than a comprehensive introduction to artificial intelligence as a tool in the generation and analysis of

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healthcare data. The book is split into two sections where the first section describes the current healthcare challenges and the rise of AI in this arena. The ten following chapters are written by specialists in each area, covering the whole healthcare ecosystem. First, the AI applications in

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drug design and drug development are presented followed by its applications in the field of cancer diagnostics, treatment and medical imaging. Subsequently, the application of AI in medical devices and surgery are covered as well as remote patient monitoring. Finally, the book dives into

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the topics of security, privacy, information sharing, health insurances and legal aspects of AI in healthcare. Highlights different data techniques in healthcare data analysis, including machine learning and data mining Illustrates different applications and challenges across the design,

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implementation and management of intelligent systems and healthcare data networks Includes applications and case studies across all areas of AI in healthcare data

This new book, by one of the most respected researchers in Artificial Intelligence, features a radical new

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'evolutionary' organization that begins with low level intelligent behavior and develops complex intelligence as the book progresses.

The challenges of (AI) big data gather shaping the future of retail for consumer industries Another challenge of (AI) big data gather is that how to

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shape the consumer behavior to let business owner to feel or know or predict. It means that how it express it's conclusion or opinion for every consumer behavior after it had gather all big data in any data gather period, e.g. three months, half year or one year consumer shopping model data



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gather period. Because every kind of industry, consumers will continue to demand price and quality change , with a wide range of convenient fulfilment options among of different kinds of products or services supply. Overall, the (AI) big data gather procedure gives opinion concerns

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every time retail experience will become more exciting, simple and convenient, depending on the consumer's ever-changing needs. So, I believe that (AI) big data gather every conclusion or result will be different, due to consumer's price and quality demand will often change to every

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kind of product or service supply in retail industry. So, how to shape (AI) big data gathering's analytical conclusion or result more clear. I shall recommend organizations need to build great understanding of and a stronger connection to increasingly empowered consumers before they

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plan and implement how to apply (AI) big data gather tool to predict consumer behavior as below: Firstly, (AI) is empowered by technology, the consumer is redefining value. The traditional measures of cost, choice and convenience are still relevant, but not control and experience are also

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important. Globally, consumers have access to more than 2 billion different products choice by a wide range of traditional competitors and dynamic new entrants, all experimenting with new business models and methods of client engagement. As choice increases, loyalty becomes more

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difficult familiarity and the consumer becomes more empowered.

Businesses will have no choice and constantly innovate and disrupt themselves by meeting new technologies of high standards and expectations of consumers. So, (AI) data gather tool will need to follow

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different target group of consumers' needs to follow their different kinds of product design or style choice preferable to gather data in order to conclude the different target groups of consumer behavior to give opinion more clear and accurate to let businessmen to understand more

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clear how its customers' behavioral choice trend in the future half month, even to two years period. Secondly, businessmen need to adopt changing technologies rapidly. Technology will be the key driver of this retail industry. Industry participants will only success if they have a clear prediction to focus



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on how to using technology to increase the value added to consumers. They must , however, do so will I realistic assessment of their costs and benefits. Hence, (AI) big data gather technological tools will need to design to help them to gather data efficiently by these ways, such as

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the internet of things ( IOT), artificial intelligence (AI) machine learning, augmented reality (AR)/virtual reality (VR), digital traceability. So, future (AI) big data gather tool are predicted to be most influential customer behavioral positive emotion changing tool for retail , due to their widespread

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applications , ability to drive efficiencies and impact on labor in order to impact consumer behavior changing effort from negative emotion to positive. Thirdly, (AI) big data gather tool is an advanced data science of consumer behavior predictive tool. Businesses will have to bring the

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journey from simply collecting consumer data to using it to scale and systematize enhanced decision making across the entire value chain. When focused on their business goals, industry players should not lose sight of the impact that future capabilities and transformative business models

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may have on society.

Human Behaviour Analysis Using Intelligent Systems

Can Apply Artificial Intelligence Predicts Consumer Behavior In Business Environment

Tool Business Journey

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Health Research and Clinical Care  
Artificial Intelligence Big Data  
Gathering Predicts Consumer  
Behavior

Advances in artificial intelligence (AI) highlight the potential of this technology to affect productivity, growth, inequality, market power,

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innovation, and employment. This volume seeks to set the agenda for economic research on the impact of AI. It covers four broad themes: AI as a general purpose technology; the relationships between AI, growth, jobs, and inequality; regulatory responses to changes brought on by

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AI; and the effects of AI on the way economic research is conducted. It explores the economic influence of machine learning, the branch of computational statistics that has driven much of the recent excitement around AI, as well as the economic impact of robotics and automation



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and the potential economic consequences of a still-hypothetical artificial general intelligence. The volume provides frameworks for understanding the economic impact of AI and identifies a number of open research questions. Contributors: Daron Acemoglu, Massachusetts

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Predictive search will improve the quality of search results, and provide



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new insights into consumers' behavior and the moments which matter to them. Search will give recommendation into tailored how consumer individual choice in consumption process. Several of the largest online platforms already use machine learning to improve

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predictive consumer behavioral search results. For example, Google's rank brain technology adds research by understanding the context in which the consumer has entered it. Over time, rank brain will learn further from user behaviors Amazon's DSSTNE (pronounced destiny) learns

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from shoppers' purchasing habits and consumption behavior to offer better product recommend actions, which Amazon can offer before a consumer has entered anything into the search bar. However, this technology is not independent of human input. For example, Google engineers will

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periodically retain the rank brain system to improve the models it uses. For another example, in 2016 year, Apple computer revamped its photos app to allow consumers to search for specific items in the photos, they want to find, not just dates and locations. Each photo that an

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intelligent phone or intelligent pad user takes goes through 11 billion computations, so that photos can understand exactly what is the photography. It seems that in future, (AI) machine learning will allow search to evolve even further. Search engineers will deliver refined

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recommendations to their business users and use less human input to predict consumers' needs. For IBM computer example, it indicated 90% of the data that exists today has been created in the last two years. This huge explosion of data gives brands the opportunity to quickly spot and

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react to the latest trends, fashion and fads among its clients and potential clients. This will allow companies to better engage with younger consumers, who gain influence access to the latest trends, and use the brands. They associate with to help define who they are as

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individuals. Thus, brands have to identify and make use of them before consumers move on, but the vast quantity of data available makes this a resource-intensive task. For next example, Lesara, a based online clothes store, uses this machine learning to inform its product decision



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often gathering information from internal and external sources. When its trends -spotting shoes. Lesara has a range of over 20 styles and sells hundreds of pairs a day. It focus on giving consumers, the very latest trends allow Lesara to develop on average of 50,000 new items each

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year. It compared to 11,000 old items each year. Thus, (AI) brain seems to human brain to own analytical ability to predict consumer behaviors.

A Narrative science study in 2015 year identified that (AI) was being used primarily in voice recognition, machine learning virtual assistants

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and decision support. This study also highlighted the many branches of (AI) and that techniques and their definition are used interchangeably. It is possible that (AI) can be used to gather big data, then to analyze to help businesses to predict consumer behaviors. For example, one of the

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most common techniques is machine learning, where algorithms are used to perform tasks by learning from historical data. Another growth branch of (AI) is natural language procession. However, during 2017 year, search engines will begin to factor additional behavioral data into

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prediction of customer behavioral results, such as the user's history of searches and locations and previously captures conversations. Artificial intelligence will use this information to power predictive search results, e.g. predictive future consumer's choice behavioral

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processing for any kinds of businesses. Predictive search will improve the quality of search results, and provide new insights into consumers' behavior and the moments which matter to them. Search will give recommendation into tailored how consumer individual

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choice in consumption process. Several of the largest online platforms already use machine learning to improve predictive consumer behavioral search results. For example, Google's rank brain technology adds research by understanding the context in which

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the consumer has entered it. Over time, rank brain will learn further from user behaviors Amazon's DSSTNE (pronounced destiny) learns from shoppers' purchasing habits and consumption behavior to offer better product recommend actions, which Amazon can offer before a consumer



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has entered anything into the search bar. However, this technology is not independent of human input. For example, Google engineers will periodically retain the rank brain system to improve the models it uses. For another example, in 2016 year, Apple computer revamped its

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photography. It seems that in future, (AI) machine learning will allow search to evolve even further.

How AI technology influence productivities and service performance ? Whether it can raise productivities and improve service performance? This book aims to

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explain why and how future artificial intelligent technology ( big data gathering method) can be applied to assist businesses to predict why and when and how consumer behavior changes. I shall explain why traditional psychological and statistic and marketing methods are applied

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to predict consumer behaviors, human's judgement and analytical effort will be worse to compare AI machine's judgement and analytical effort. Also, I shall indicate different business organizations why they apply AI big data gathering method to help them to design any

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questionnaires ( surveys) questions which will be more valid and useful to conclude human's questionnaires ( surveys) design questions method. This book has these two research questions need to be answered?(1) Can apply (AI) learning machine predict consumer

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behaviors?(2) Can (AI) learning machine replace human marketing research method, e.g. survey or human psychological and micro and macro economic methods to predict consumer behaviors more accurate? Nowadays, many businessmen or marketing research

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professional hope to apply different methods to predict consumer behaviors in order to know what will be future market activities and market changes to help them to choose to implement what kinds of marketing strategies more accurately. The methods include



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economic environmental change prediction method, consumer individual psychological change prediction method, micro or macro behavioral economic environmental change prediction method, marketing environmental change prediction method etc. different kinds of

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methods which can be applied to predict how consumer behavioral changes to influence whose behavioral consumption to the manufacturer products sale within one to two years short term or three to five years middle term, even above five years long term business

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plans. Hence, if the product manufacturers can apply the most suitable consumer behavioral prediction method to predict how consumers' choice will be changed to influence their products sale easily. It will have more beneficial intangible and tangible advantages to achieve

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the their product easier sale aim to ensure their businesses' future market share to be increased more easier to their countries' choice target sale markets. Otherwise, if they applied the inaccurate consumer behavioral prediction methods to predict how their consumers'

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behavioral changes wrongly. Then, it will influence their market shares to be same level, even it will decrease their market shares, when their consumer behavioral prediction inaccurately. In my this book first part, I concentrate on indicate whether any artificial intelligence (AI) tools will be

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one kind of good consumer behavioral prediction method to be choose to apply to predict consumer behaviors. I shall indicate some examples, cases to give reasonable evidences to analyze whether (AI) tools will be one kind suitable tool to be applied to predict when and how

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consumer behavioral changes. If (AI) can be one kind tool to attempt to be applied to predict when and how consumer behavioral changes. Will it replace other kinds of methods to predict consumer behaviors? Does it have weaknesses to be applied to predict consumer behaviors, instead

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of strengths? Can it be applied to predict consumer behaviors depending on any situations of only some situation? Finally, I believe that any readers can find answers to answer above these questions in this book.

Artificial Intelligence And Consumer



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Efficiencies To: Avoid Wage Inequality  
Prepare This book has these two research questions need to be answered? (1) Can apply (AI) learning machine predict consumer behaviors? (2) Can (AI) learning machine replace human marketing

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marketing environmental change prediction method etc. different kinds of methods which can be applied to predict how consumer behavioral changes to influence whose behavioral consumption to the

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consumer individual emotion. I shall indicate case studies to explain how consumer individual better or worse emotion how to influence whose consumption behavior in different situation. Finally, I shall



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indicate evidences to conclude how and why (AI) tool that can be used to predict consumer individual emotion and it will have direct relationship to influence consumption behavior, as well as how

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(AI) tool can assist businessmen to judge whether what reasons case the customer does not choose to buy its product, it is possible because the product high price factor, poor product quality or poor

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staff service performance or attitude etc. different factors to influence the consumer decides to choose to buy the other product consequently, when the (AI) tool can confirm consumer has good or bad emotion to

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judge what factors are the causes his decision making at the moment. Readers can understand why and how (AI) tool can be attempt to be applied to predict customer emotion and it can influence positive or negative

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consumption behavior to the product clearly in this part.

Behavior Analysis with Machine Learning Using R introduces machine learning and deep learning concepts and algorithms applied to a

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diverse set of behavior analysis problems. It focuses on the practical aspects of solving such problems based on data collected from sensors or stored in electronic records. The included

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examples demonstrate how to perform common data analysis tasks such as: data exploration, visualization, preprocessing, data representation, model training and evaluation. All of this, using the R

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programming language and real-life behavioral data. Even though the examples focus on behavior analysis tasks, the covered underlying concepts and methods can be applied in any other domain. No prior



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knowledge in machine learning is assumed. Basic experience with R and basic knowledge in statistics and high school level mathematics are beneficial. Features: Build supervised machine learning models to

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predict indoor locations based on WiFi signals, recognize physical activities from smartphone sensors and 3D skeleton data, detect hand gestures from accelerometer signals, and so on. Program your own

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ensemble learning methods and use Multi-View Stacking to fuse signals from heterogeneous data sources. Use unsupervised learning algorithms to discover criminal behavioral patterns. Build deep

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models in traditional and multi-user settings. Build anomaly detection models such as Isolation Forests and autoencoders to detect abnormal fish behaviors. This book is intended for undergraduate/graduate

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students and researchers from ubiquitous computing, behavioral ecology, psychology, e-health, and other disciplines who want to learn the basics of machine learning and deep learning and for the more

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experienced individuals who want to apply machine learning to analyze behavioral data.

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Behavioral Predictive

Technology

An Agenda

Foundational Issues in

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Artificial Intelligence and  
Cognitive Science

*Chapter two*How can (AI)  
*provide businesses with*  
*better-informed decisions**I*  
*shall explain how (AI)*  
*technology can provide*

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*businesses with better-informed decisions to drive top-line growth, deliver meaningful experience for customers and smooth their path along the consumer*



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*journey. The widely understood definition of (AI) involves the ability of machines or computers to learn human thinking, reasoning and decision-making abilities. A*

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*previously captures conversations. Artificial intelligence will use this information to power predictive search results, e.g. predictive future consumer's choice*

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*behavioral processing for any kinds of businesses. Predictive search will improve the quality of search results, and provide new insights into consumers' behavior*



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*anything into the search bar. However, this technology is not independent of human input. For example, Google engineers will periodically retain the*

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*rank brain system to improve the models it uses. For another example, in 2016 year , Apple computer revamped its photos app to allow consumers to search for*

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*specific items in the photos, they want to find, not just dates and locations. Each photo that an intelligent phone or intelligent pad user takes goes through 11 billion*

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*computations, so that photos can understand exactly what is the photography. It seems that in future, (AI) machine learning will allow search to evolve even further.*



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*Search engines will deliver refined recommendations to their business users and use less human input to predict consumers' needs. For IBM computer example,*

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*it indicated 90% of the data that exists today has been created in the last two years. This huge explosion of data gives brands the opportunity to quickly spot and react to*

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*the latest trends, fashion and fads among its clients and potential clients.*

*This will allow companies to better engage with younger consumers, who gain influence access to*

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*the latest trends, and use the brands. They associate with to help define who they are as individuals. Thus, brands have to identify and make use of them before consumers move*

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*on, but the vast quantity of data available makes.*

*Behavior Trees (BTs)*

*provide a way to structure the behavior of an artificial agent such as a robot or a non-player*

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*character in a computer game. Traditional design methods, such as finite state machines, are known to produce brittle behaviors when complexity increases, making it very*

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*hard to add features without breaking existing functionality. BTs were created to address this very problem, and enables the creation of systems that are both modular and*

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*reactive. Behavior Trees in Robotics and AI: An Introduction provides a broad introduction as well as an in-depth exploration of the topic, and is the first comprehensive book*



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*on the use of BTs. This book introduces the subject of BTs from simple topics, such as semantics and design principles, to complex topics, such as learning and task*

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*planning. For each topic, the authors provide a set of examples, ranging from simple illustrations to realistic complex behaviors, to enable the reader to successfully*

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*combine theory with practice. Starting with an introduction to BTs, the book then describes how BTs relate to, and in many cases, generalize earlier switching structures, or*

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*control architectures.*

*These ideas are then used as a foundation for a set of efficient and easy to use design principles. The book then presents a set of important extensions*

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*and provides a set of tools for formally analyzing these extensions using a state space formulation of BTs. With the new analysis tools, the book then formalizes*

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*the descriptions of how BTs generalize earlier approaches and shows how BTs can be automatically generated using planning and learning. The final part of the book provides*

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*an extended set of tools to capture the behavior of Stochastic BTs, where the outcomes of actions are described by probabilities. These tools enable the computation of*

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*both success probabilities and time to completion.*

*This book targets a broad audience, including both students and professionals interested in modeling complex behaviors for*



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*robots, game characters, or other AI agents.*

*Readers can choose at which depth and pace they want to learn the subject, depending on their needs and background.*

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*Artificial Intelligence in Behavioral and Mental Health Care summarizes recent advances in artificial intelligence as it applies to mental health clinical practice.*

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*Each chapter provides a technical description of the advance, review of application in clinical practice, and empirical data on clinical efficacy. In addition, each chapter*

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*includes a discussion of practical issues in clinical settings, ethical considerations, and limitations of use. The book encompasses AI based advances in decision-*

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*making, in assessment and treatment, in providing education to clients, robot assisted task completion, and the use of AI for research and data gathering. This book will*

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*be of use to mental health practitioners interested in learning about, or incorporating AI advances into their practice and for researchers interested in a comprehensive review*

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*of these advances in one source. Summarizes AI advances for use in mental health practice Includes advances in AI based decision-making and consultation Describes AI*

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*applications for assessment and treatment Details AI advances in robots for clinical settings Provides empirical data on clinical efficacy Explores*



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*practical issues of use in  
clinical settings*

*With all the material  
available in the field of  
artificial intelligence  
(AI) and soft computing-  
texts, monographs, and*

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*journal articles—there remains a serious gap in the literature. Until now, there has been no comprehensive resource accessible to a broad audience yet containing a*

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*depth and breadth of information that enables the reader to fully understand and readily apply AI and soft computing concepts.*

*Artificial Intelligence*

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*and Soft Computing fills this gap. It presents both the traditional and the modern aspects of AI and soft computing in a clear, insightful, and highly comprehensive style. It*

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*provides an in-depth analysis of mathematical models and algorithms and demonstrates their applications in real world problems. Beginning with the behavioral perspective*

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*of "human cognition," the text covers the tools and techniques required for its intelligent realization on machines. The author addresses the classical aspects—search,*

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*symbolic logic, planning, and machine learning—in detail and includes the latest research in these areas. He introduces the modern aspects of soft computing from first*

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*principles and discusses them in a manner that enables a beginner to grasp the subject. He also covers a number of other leading aspects of AI research, including*



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*nonmonotonic and spatio-temporal reasoning, knowledge acquisition, and much more. Artificial Intelligence and Soft Computing: Behavioral and Cognitive Modeling of the*

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*Human Brain is unique for its diverse content, clear presentation, and overall completeness. It provides a practical, detailed introduction that will prove valuable to computer*

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*science practitioners and students as well as to researchers migrating to the subject from other disciplines.*

*Artificial Intelligence Predicts Traveller*

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*Behaviors?*

*Brain-inspired Machine  
Learning and Computation  
for Brain-Behavior  
Analysis  
Artificial Intelligence  
Ethical Behavioral*

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***Influences Artificial  
Intelligent Success***

Is (AI) traveler behavioral  
prediction tool similar to  
manual psychological  
prediction method to be used  
to predict traveler behavior

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more accurate? I shall explain how (AI) big data gathering technology can provide travelling businesses with better-informed decisions to drive top-line growth, deliver meaningful experience for

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travelling customers and smooth their path along the travelling consumer journey. The widely understood definition of (AI) involves the ability of machines or computers to learn human

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thinking, reasoning and decision-making abilities. So, such as (AI) learning machine system can attempt to learn travelling consumer's travel destination or travel package thinking, judgement of their



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reasons why they choose to go to the destination to travel or why they choose to buy the travel package and learn how and why they make their past travelling decisions from their past travel big data

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gathering. A Narrative science study in 2015 year identified that (AI) was being used primarily in voice recognition, machine learning virtual assistants and decision support. This study also

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highlighted the many branches of (AI) and that techniques and their definition are used interchangeably. It is possible that (AI) can be used to gather big data , then to analyze to help travel

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businesses to predict travelling consumer travel destination and travel package choice behaviors. For example, one of the most common techniques is traveler machine learning, where

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algorithms are used to perform tasks by learning from the airline or travel agent whose past all travelers' travelling destination choice and travel package choice historical data. However,

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during 2017 year, search engines will begin to find what additional factors can influence past traveler personal travelling destination and travelling package travelling behavioral data into

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prediction of future travelling customer behavioral results, such as the online traveler (user's) history of travelling data searches, such as anywhere are the most popular travelling locations or

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travelling destinations and previously captures conservations. Artificial intelligence will use this past travelling destinations and travelling package information to power predictive search



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results, e.g. predictive future travelling consumer's choice behavioral processing for where will be their preferable travelling destination choice and how to design travelling package to satisfy future

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travelling clients' needs. Predictive search will improve the quality of online travelling search results, and provide new insights into travelling consumers' travelling destination and

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package behavior and the moments which matter to them. Search will give recommendation into tailored how travelling consumer individual travelling destination choice in travelling

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decision making process.

Several of the largest online platforms already use (AI) travelling machine learning to improve predictive travelling consumer behavioral search results. For example, Google's

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rank brain technology adds research by understanding the context in which the travelling consumer has entered it. Over time, rank brain will learn further from user behaviors Amazon's DSSTNE (

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pronounced destiny) learns from shoppers' purchasing habits and consumption behavior to offer better product recommend actions, which Amazon can offer before a consumer has

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entered anything into the search bar. Such as (AI) big data can gather past online travelers' e-ticket purchase transactions to conclude that online traveler's travelling choice habits and online

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traveler consumption behavior to offer better travelling destinations and travelling package opinions to travel agents or airlines. However, this technology is not independent of human input.



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For example, Google engineers will periodically retain the rank brain system to improve the models it uses. Introduction I write this book aims to let readers to feel that future artificial intelligent (AI)

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technology whether it could be applied to which aspects to satisfy our life need. I shall concentrate on predicting (AI) technology can be applied to these several aspects: education, business,

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transportation, space tourism, medical health these five aspects. This is my opinion, it is not absolute true. However, I shall follow our nowadays (AI) technological development trend to explain

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how I predict how (AI) technology will be invented to applied to these five aspects to satisfy consumer individual and businessman individual both needs, even I shall explain how to (AI) tool to

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predict consumer behavior in psychological function successfully. . However, I shall explain why (AI) manufacturers need to concern ethic matter, if they do not concern ethic or moral

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matter, any future (AI) industry development will be encountered failure. So, I bring this two questions: (1) Why do ethic or moral matter is important to influence any (AI) industry development

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success? (2) What will be caused negative influence to (AI) consumer consumption desire if any (AI) manufacturers do not concern (AI) ethic or moral matter? First part, I shall explain how

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and why (AI) technology can be applied to space exploration missions and space tourism development. Will artificial intelligent space exploration bring long term economic, entertainment and



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technological benefits? What factors will apply (AI) technology to assist space tourism leisure development? How to apply (AI) technology to solve any challenges during space travelling boats fly to

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space to encounter sudden accident. This part concerns whether artificial intelligent technology can be used in future space development. Firstly, I shall explain how human can apply artificial

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intelligent technology to space development which aspects.

Then, I shall indicate how scientists need to follow what steps in order to achieve (AI) space robotic technology can be used in space technology

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to develop more successful. In this part, I shall also explain what benefits or strengths that (AI) space robotic technology can bring to assist space development as well as what disadvantages or weaknesses

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if (AI) space robotic technology can not be used to assist space development. I shall conclude whether (AI) space robotic technology will be real one tool which can assist space development,

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when human chooses to adapt to work and live and space tourism entertainment activities with (AI) space robots together in our future (AI) space robotic technological societies.

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Second part, I shall explain how future (AI) technology can be applied to business and health service aspect. The research questions: Can AI grow productivity? If AI can grow productivity, how can it

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raise ? If productivity raised, can it raise economic development ? How will (AI) influence human job change? Advances in artificial intelligence (AI) technology is for the progress in critical



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areas, such as health, education, energy, economy inclusion, social welfare and the environment. Thus, it brings this question: Which (AI) workers be instead of traditional human workers in

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these different new markets? In recent years, machines had been used to be human's tasks in the performance of certain tasks related to intelligence, such as aspects of image recognition. Experts

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also forecast that rapid progress in the field of specialized artificial intelligence will continue. Then, it also brings this question: Does (AI) exceed that of human performance on

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more and more tasks? If it is truth, will some of human jobs to be disappeared? (AI) will be instead of human some simple jobs, then unemployment rate to the low skillful and low educated workers will be

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increased.

Human behavior is never an exact science, making the design and programming of artificial intelligence that seeks to replicate human behavior difficult. Usually, the

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answers cannot be found in sterile algorithms that are often the focus of artificial intelligence programming. However, by analyzing why people behave the way we do, we can break down the

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process into increasingly smaller components. We can model many of those individual components in the language of logic and mathematics and then reassemble them into larger,

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more involved decision-making processes. Drawing from classical game theory, "Behavioral Mathematics for Game AI" covers both the psychological foundations of human decisions and the



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mathematical modeling techniques that AI designers and programmers can use to replicate them. With examples from both real life and game situations, you'll explore topics such as utility, the

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fallacy of rational behavior, and the inconsistencies and contradictions that human behavior often exhibits. You'll examine various ways of using statistics, formulas, and algorithms to create believable

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simulations and to model these dynamic, realistic, and interesting behaviors in video games. Finally, you'll be introduced to a number of tools you can use in conjunction with standard AI

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algorithms to make it easier to utilize the mathematical models.

The book focuses on a conceptual flaw in contemporary artificial intelligence and cognitive

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science. Many people have discovered diverse manifestations and facets of this flaw, but the central conceptual impasse is at best only partially perceived. Its consequences, nevertheless,

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visit themselves as distortions and failures of multiple research projects - and make impossible the ultimate aspirations of the fields. The impasse concerns a presupposition concerning the

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nature of representation - that all representation has the nature of encodings: encodingism. Encodings certainly exist, but encodingism is at root logically incoherent; any

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programmatically research predicted on it is doomed to distortion and ultimate failure. The impasse and its consequences - and steps away from that impasse - are explored in a large number of



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projects and approaches. These include SOAR, CYC, PDP, situated cognition, subsumption architecture robotics, and the frame problems - a general survey of the current research in AI and

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Cognitive Science emerges. Interactivism, an alternative model of representation, is proposed and examined. Behavior Trees in Robotics and AI Consumer Behavioral Tool

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Artificial Intelligence Predicts  
Consumer Behavioral Tool  
Consumer Behavioral Tools ?  
Behavioral Mathematics for  
Game AI

***The challenges of (AI) big  
data gather shapingthe future***

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***of retail for consumer industries Another challenge of (AI) big data gather is that how to shape the consumer behavior to let business owner to feel or know or predict. It means that how it express it's conclusion or opinion for***

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***every consumer behavior after  
it had gather all big data in  
any data gather period, e.g.  
three months, half year or one  
year consumer shopping  
model data gather  
period. Because every kind of  
industry, consumers will***

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***continue to demand price and quality change , with a wide range of convenient fulfilment options among of different kinds of products or services supply. Overall, the (AI) big data gather procedure gives opinion concerns every time***

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***retail experience will become more exciting, simple and convenient, depending on the consumer's ever-changing needs. So, I believe that (AI) big data gather every conclusion or result will be different, due to consumer's***

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***price and quality demand will often change to every kind of product or service supply in retail industry. So, how to shape (AI) big data gathering's analytical conclusion or result more clear. I shall recommend***



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***organizations need to build  
great understanding of and a  
stronger connection to  
increasingly empowered  
consumers before they plan  
and implement how to apply  
(AI) big data gather tool to  
predict consumer behavior as***

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***below:Firstly, (AI) is empowered by technology, the consumer is redefining value. The traditional measures of cost, choice and convenience are still relevant, but not control and experience are also important. Globally,***

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***consumers have access to more than 2 billion different products choice by a wide range of traditional competitors and dynamic new entrants, all experimenting with new business models and methods of client***

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***engagement. As choice increases, loyalty becomes more difficult familiarity and the consumer becomes more empowered. Businesses will have no choice and constantly innovate and disrupt themselves by meeting new***

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***technologies of high standards and expectations of consumers. So, (AI) data gather tool will need to follow different target group of consumers' needs to follow their different kinds of product design or style choice***

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***preferable to gather data in order to conclude the different target groups of consumer behavior to give opinion more clear and accurate to let businessmen to understand more clear how its customers' behavioral***

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***choice trend in the future half month, even to two years period. Secondly, businessmen need to adopt changing technologies rapidly. Technology will be the key driver of this retail industry. Industry participants will only***

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***success if they have a clear prediction to focus on how to using technology to increase the value added to consumers. They must , however, do so will I realistic assessment of their costs and benefits. Hence, (AI) big data gather***



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***technological tools will need to design to help them to gather data efficiently by these ways, such as the internet of things ( IOT), artificial intelligence (AI) machine learning, augmented reality (AR)/virtual reality***

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***(VR), digital traceability. So, future (AI) big data gather tool are predicted to be most influential customer behavioral positive emotion changing tool for retail , due to their widespread applications , ability to drive***

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***efficiencies and impact on  
labor in order to impact  
consumer behavior changing  
effort from negative emotion  
to positive. Thirdly, (AI) big  
data gather tool is an  
advanced data science of  
consumer behavior predictive***

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***tool. Businesses will have to bring the journey from simply collecting consumer data to using it to scale and systematize enhanced decision making across the entire value chain. When focused on their business***

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***goals, industry players should not lose sight of the impact that future capabilities and transformative business models may have on society. Chapter Eight What are (AI) predict consumer behavioral functions and features? On***

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***analyzing customers behavior  
in the big data aspect: (AI)  
technology can gather data  
efficiently in short time, which  
is a series of events from a  
website, it is human's  
consumer  
behavioral predictive effort***

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***can not achieve. Big data can help businessse to gain a wide view of customer activity across channels, discover what influences buyingbehavior, tailo businesses' services and products towhat whose***

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***customer wants, improve  
customer satisfaction, drive  
customer loyalty, optimize  
existing customers, adapt  
whose prices to the market,  
drive the profit and  
performance of marketing  
campaigns, net budget***



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***without cutting performance  
and innovte speed of  
predictive customer  
behavioral when, how and why  
changes.For example,  
although an airline company  
has lot customers tell happy  
and satisfactory to its service***

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***on average a people about  
their experience, when  
dissatisfies ones feel  
frustrations to 22 pers ons.  
Just one airline passenger  
complaints. If the airline can  
gather data to predict when,  
how and why whose***

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***passengers' service needs will change. Then, it can implement service strategy to be changed to attempt to satisfy whose undiscovered needs more clearly. So, today's organizations are facing a very public cycle of buying***

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***and service needs  
changing influences. As the  
airline case, it doesn't attempt  
to predict when, how and why  
its passengers' service needs  
with changes. So, it is possibly  
that if still has some  
passengers feel dissatisfactory***

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***to its service. As the airline case, big data gathering will help the airline company to build loyalty for long time if it could attempt to apply (AI) big data gathering tool to predict its passengers' service needs. As the airline case,***

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***loyalty is needed to build long relevant time between itself and it's plane passengers. So, the airline company needs to keep its passengers' satisfactory service feeling, interested to choose to catch its air planes to fly, feeling its***

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***staffs can provide considerate services when any time they expect its service can reward their needs in exactly the way they want when they are catching the plane to fly. So, big data gather method is as a consumer psychological tool***

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***to predict when, how and why their needs will change in order to gather all past consumers' behavioral data to make more accurate predictive behavioral changes analysis. Pretty databases can fill with laze***



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***data and intelligence that takes hours, days and even weeks be delivered with no longer do. When markets become networks of intelligence. Businesses need to keep moving faster. They need systems that can deliver***

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***the intelligence immediately. Businesses can need for closing gap betwen their promises or intentions and what their customer wants in " variety".Because big data is very complex and comes in all types from neatly structures***

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***into the column and row based  
databases of every company.  
So, every company will need  
have different kinds of  
unique database to apply  
artificial intelligent  
technology to assist them to  
gather global customer***

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***behavioral data in order to carry on analyzing and concluding more accurate prediction. Every company needs to apply (AI) big data gathering tool to gain information, coming from all kinds of different sources:***

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***point of sales, online  
transactions, logistics data,  
sourcing information, market  
research, (CRM) customer  
relationship management,  
solutions, satisfaction  
surveys, customer service, pre-  
sales histories, e-mails, call***

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***data records, loyalty cards,  
call and contact center  
interactions, salesforce  
automation data, traditional  
advertising record,  
webclickstreams.***

***Chapter two How can (AI)  
provide businesses with***

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***better- informed decisions I shall explain how (AI) technology can provide businesses with better- informed decisions to drive top-line growth, deliver meaningful experience for customers and smooth their***

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***path along the consumer journey. The widely understood definition of (AI) involves the ability of machines or computers to learn human thinking, reasoning and decision-making abilities. A Narrative***



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***science study in 2015 year identified that (AI) was being used primarily in voice recognition, machine learning virtual assistants and decision support. This study also highlighted the many branches of (AI) and that***

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***techniques and their definition are used interchangeably. It is possible that (AI) can be used to gather big data , then to analyze to help businesses to predict consumer behaviors. For example, one of the most***

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***common techniques is machine learning, where algorithms are used to perform tasks by learning from historical data. Another growth branch of (AI) is natural language procession. Prepare This book has these***

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***two research questions need to be answered? (1) Can apply (AI) learning machine predict consumer behaviors? (2) Can (AI) learning machine replace human marketing research method, e.g. survey or human psychological and micro and***

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***macro economic methods to predict consumer behaviors more accurate? Nowadays, many businessmen or marketing research professional hope to apply different methods to predict consumer behaviors in order***

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***to know what will be future market activities and market changes to help them to choose to implement what kinds of marketing strategies more accurately. The methods include economic environmental change***

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***prediction method, consumer  
individual psychological  
change prediction method,  
micro or macro behavioral  
economic environmental  
change prediction method,  
marketing environmental  
change prediction method etc.***

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***different kinds of methods  
which can be applied to  
predict how consumer  
behavioral changes to  
influence whose behavioral  
consumption to the  
manufacturer products sale  
within one to two years short***



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***term or three to five years  
middle term, even above five  
years long term business  
plans. Hence, if the product  
manufacturers can apply the  
most suitable consumer  
behavioral prediction method  
to predict how consumers'***

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***choice will be changed to influence their products sale easily. It will have more beneficial intangible and tangible advantages to achieve the their product easier sale aim to ensure their businesses' future market***

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***share to be increased more  
easier to their countries'  
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Otherwise, if they applied the  
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to predict how their  
consumers' behavioral***

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***changes wrongly. Then, it will influence their market shares to be same level, even it will decrease their market shares, when their consumer behavioral prediction inaccurately. In my this book first part, I concentrate on***

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***indicate whether any artificial intelligence (AI) tools will be one kind of good consumer behavioral prediction method to be choose to apply to predict consumer behaviors. I shall indicate some examples, cases to give reasonable***

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***evidences to analyze whether  
(AI) tools will be one kind  
suitable tool to be applied to  
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consumer behavioral changes.  
If (AI) can be one kind tool to  
attempt to be applied to  
predict when and how***

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***consumer behavioral changes. Will it replace other kinds of methods to predict consumer behaviors? Does it have weaknesses to be applied to predict consumer behaviors, instead of strengths? Can it be applied to predict***

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***consumer behaviors  
depending on any situations  
of only some situation?  
Finally, I believe that any  
readers can find answers to  
answer above these questions  
in this book. In my this book  
second part, I shall explain***



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***why and how human can  
possible apply (AI) tool to  
predict consumer individual  
emotion. I shall indicate case  
studies to explain how  
consumer individual better or  
worse emotion how to  
influence whose consumption***

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***behavior in different  
situation. Finally, I shall  
indicate evidences to conclude  
how and why (AI) tool that can  
be used to predict consumer  
individual emotion and it will  
have direct relationship to  
influence consumption***

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***behavior, as well as how (AI) tool can assist businessmen to judge whether what reasons case the customer does not choose to buy its product, it is possible because the product high price factor, poor product quality or poor staff***

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***service performance or attitude etc. different factors to influence the consumer decides to choose to buy the other product consequently, when the (AI) tool can confirm consumer has good or bad emotion to judge what***

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***factors are the causes his  
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understand why and how (AI)  
tool can be attempt to be  
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emotion and it can influence  
positive or negative***

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***consumption behavior to the  
product clearly in this part.  
Behavior Analysis with  
Machine Learning Using R  
Can Apply Artificial  
Intelligence to Predict  
Consumer Behavior: In Any  
Business Environment ?***

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***Artificial Intelligence Predicts  
Customer Behavior***

***Artificial Intelligence Raises  
Efficiency and Productivity***

***Can Artificial Intelligence  
Become Predictive***

Information economists suggest that

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both buyers and sellers have an incentive to hide or reveal private information, and these incentives are crucial for market efficiency. Data technology that reveals consumers type could facilitate a better match between product and consumer type,



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and data technology that helps buyers to assess product quality could encourage high quality production. Thus, (AI) big data technology can also assist consumers to gather different manufacturers' data to compare what their

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advantages and disadvantages of their products are. Then, consumers can make comparison to choose which brand of product is the suitable to whom to buy in these more choice consumption market. (AI) learning machine will gather

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similar brand their products' data to analyze to make conclusion to let consumers know or feel to make final judge to find what advantages or disadvantages of these sample brands of similar products' comparison from internet. On the

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other hand, it means that manufacturers can gather consumers' past purchase behaviors or purchase experience from (AI) big data gathering method to record and analyze to give opinions to let manufacturers to know what reasons

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or factors influence consumers choose not to buy their products from internet.(AI) big data gathering consumer behavior prediction method can give these benefits to manufacturers and consumers both, such as: New concerns arise because

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(AI) technological advance which have enables reducing cost of collecting, storing, processing and using data in mass quantities extend information beyond a single transaction. These advances are often summarized by the big data, it

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means charge volume of transaction-level data that could identify individual consumers by itself or in combination with the datasets. The popular (AI) takes big data as in input in order to understand, predict and influence consumer behavior.

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Modern (AI) is used by legitimate companies, could improve management efficiency motivate innovations and better match demand and supply. But (AI) in the wrong hand, also allows the mass production of fraud and deception.



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Since, data can be stored, traded and used long after the transaction.

Future data use is likely to grow with data processing technology, such as (AI) big data gathering consumer and manufacturer behavioral prediction method from internet

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channel. Thus, future (AI) big data learning machine can also help consumers to choose the best brand of manufacturer's products among different brands of manufacturers products choice to compare their past sale performance from internet.

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They can apply (AI) big data statistic method to gather all different manufacturers' similar products past sale data to compare their advantages and disadvantages to make the best decision to choose to buy which brand of product is the

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most suitable to them to buy to use. It seems (AI) big data can also help consumers to predict any manufacturers' manufacturing behaviors or manufacturing performance whether they are improving their product quality or

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are deteriorating their product quality. Thus, (AI) big data tool is also important to help customers to predict future the different brands of manufacturer performance will have improvement in possible.

This book has these two research

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questions need to be answered? (1)

Can apply (AI) learning machine predict consumer behaviors? (2) Can (AI) learning machine replace human marketing research method, e.g. survey or human psychological and micro and macro economic

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methods to predict consumer behaviors more accurate? Nowadays, many businessmen or marketing research professional hope to apply different methods to predict consumer behaviors in order to know what will be future market activities

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and market changes to help them to choose to implement what kinds of marketing strategies more accurately. The methods include economic environmental change prediction method, consumer individual psychological change



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prediction method, micro or macro behavioral economic environmental change prediction method, marketing environmental change prediction method etc. different kinds of methods which can be applied to predict how consumer

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behavioral changes to influence whose behavioral consumption to the manufacturer products sale within one to two years short term or three to five years middle term, even above five years long term business plans. Hence, if the product

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manufacturers can apply the most suitable consumer behavioral prediction method to predict how consumers' choice will be changed to influence their products sale easily. It will have more beneficial intangible and tangible advantages to

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achieve the their product easier sale aim to ensure their businesses' future market share to be increased more easier to their countries' choice target sale markets. Otherwise, if they applied the inaccurate consumer behavioral prediction methods to

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predict how their consumers' behavioral changes wrongly. Then, it will influence their market shares to be same level, even it will decrease their market shares, when their consumer behavioral prediction inaccurately. In my this book first

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part, I concentrate on indicate whether any artificial intelligence (AI) tools will be one kind of good consumer behavioral prediction method to be choose to apply to predict consumer behaviors. I shall indicate some examples, cases to

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give reasonable evidences to analyze whether (AI) tools will be one kind suitable tool to be applied to predict when and how consumer behavioral changes. If (AI) can be one kind tool to attempt to be applied to predict when and how consumer behavioral

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changes. Will it replace other kinds of methods to predict consumer behaviors? Does it have weaknesses to be applied to predict consumer behaviors, instead of strengths? Can it be applied to predict consumer behaviors depending on any



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situations of only some situation?

Finally, I believe that any readers can find answers to answer above these questions in this book. In my this book second part, I shall explain why and how human can possible apply (AI) tool to predict consumer

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individual emotion. I shall indicate case studies to explain how consumer individual better or worse emotion how to influence whose consumption behavior in different situation. Finally, I shall indicate evidences to conclude how and why

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(AI) tool that can be used to predict consumer individual emotion and it will have direct relationship to influence consumption behavior, as well as how (AI) tool can assist businessmen to judge whether what reasons case the customer does not

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choose to buy its product, it is possible because the product high price factor, poor product quality or poor staff service performance or attitude etc. different factors to influence the consumer decides to choose to buy the other product

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consequently, when the (AI) tool can confirm consumer has good or bad emotion to judge what factors are the causes his decision making at the moment. Readers can understand why and how (AI) tool can be attempt to be applied to predict

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customer emotion and it can influence positive or negative consumption behavior to the product clearly in this part.

Artificial intelligence will use this past travelling destinations and travelling package information to

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power predictive search results, e.g.  
predictive future travelling  
consumer's choice behavioral  
processing for where will be their  
preferable travelling destination  
choice and how to design travelling  
package to satisfy future travelling

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clients' needs. Predictive search will improve the quality of online travelling search results, and provide new insights into travelling consumers' travelling destination and package behavior and the moments which matter to them. Search will



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give recommendation into tailored how travelling consumer individual travelling destination choice in travelling decision making process. Several of the largest online platforms already use (AI) travelling machine learning to improve

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predictive travelling consumer behavioral search results. For example, Google's rank brain technology adds research by understanding the context in which the travelling consumer has entered it. Over time, rank brain will learn

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further from user behaviors

Amazon's DSSTNE (pronounced destiny) learns from shoppers' purchasing habits and consumption behavior to offer better product recommendations, which Amazon can offer before a consumer has

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entered anything into the search bar. Such as (AI) big data can gather past online travelers' e-ticket purchase transactions to conclude that online traveler's travelling choice habits and online traveler consumption behavior to offer better

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travelling destinations and travelling package opinions to travel agents or airlines. However, this technology is not independent of human input. For example, Google engineers will periodically retain the rank brain system to improve the models it

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This book has these two research questions need to be answered?(1) Can apply (AI) learning machine predict consumer behaviors?(2) Can (AI) learning machine replace human marketing research method,

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e.g. survey or human psychological and micro and macro economic methods to predict consumer behaviors more accurate? Nowadays, many businessmen or marketing research professional hope to apply different methods to predict

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above five years long term business plans. Hence, if the product manufacturers can apply the most suitable consumer behavioral prediction method to predict how consumers' choice will be changed to influence their products sale easily.

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It will have more beneficial intangible and tangible advantages to achieve the their product easier sale aim to ensure their businesses' future market share to be increased more easier to their countries' choice target sale markets. Otherwise, if

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they applied the inaccurate consumer behavioral prediction methods to predict how their consumers' behavioral changes wrongly. Then, it will influence their market shares to be same level, even it will decrease their market shares, when their

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predict consumer behaviors. I shall indicate some examples, cases to give reasonable evidences to analyze whether (AI) tools will be one kind suitable tool to be applied to predict when and how consumer behavioral changes. If (AI) can be one kind tool

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to attempt to be applied to predict when and how consumer behavioral changes. Will it replace other kinds of methods to predict consumer behaviors? Does it have weaknesses to be applied to predict consumer behaviors, instead of strengths? Can



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why and how human can possible apply (AI) tool to predict consumer individual emotion. I shall indicate case studies to explain how consumer individual better or worse emotion how to influence whose consumption behavior in different

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why and how (AI) tool can be attempt to be applied to predict customer emotion and it can influence positive or negative consumption behavior to the product clearly in this part.

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Intelligence

Interdisciplinary Approaches to  
Altering Neurodevelopmental  
Disorders

An Introduction

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## Artificial Intelligence Social Development Questions

So, I believe that (AI) big data gather every conclusion or result will be different, due to consumer's price and quality demand will often change to every kind of product or service supply



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in retail industry. So, how to shape (AI) big data gathering's analytical conclusion or result more clear. I shall recommend organizations need to build great understanding of and a stronger connection to increasingly empowered consumers before they plan and implement how to apply (AI)

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big data gather tool to predict consumer behavior as below: Firstly, (AI) is empowered by technology, the consumer is redefining value. The traditional measures of cost, choice and convenience are still relevant, but not control and experience are also important. Globally, consumers have

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access to more than 2 billion different products choice by a wide range of traditional competitors and dynamic new entrants, all experimenting with new business models and methods of client engagement. As choice increases, loyalty becomes more difficult familiarity and the consumer

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becomes more empowered.

Businesses will have no choice and constantly innovate and disrupt themselves by meeting new technologies of high standards and expectations of consumers. So, (AI) data gather tool will need to follow different target group of consumers'

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needs to follow their different kinds of product design or style choice preferable to gather data in order to conclude the different target groups of consumer behavior to give opinion more clear and accurate to let businessmen to understand more clear how its customers' behavioral

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choice trend in the future half month, even to two years period. Secondly, businessmen need to adopt changing technologies rapidly. Technology will be the key driver of this retail industry. Industry participants will only success if they have a clear prediction to focus on how to using technology to

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increase the value added to consumers. They must, however, do so with a realistic assessment of their costs and benefits. Hence, (AI) big data gather technological tools will need to design to help them to gather data efficiently by these ways, such as the internet of things ( IOT), artificial

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intelligence (AI) machine learning, augmented reality (AR)/virtual reality (VR), digital traceability. So, future (AI) big data gather tool are predicted to be most influential customer behavioral positive emotion changing tool for retail, due to their widespread applications, ability to drive efficiencies



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and impact on labor in order to impact consumer behavior changing effort from negative emotion to positive. Thirdly, (AI) big data gather tool is an advanced data science of consumer behavior predictive tool. Businesses will have to bring the journey from simply collecting

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consumer data to using it to scale and systematize enhanced decision making across the entire value chain. When focused on their business goals, industry players should not lose sight of the impact that future capabilities and transformative business models may have on society. However, (AI) big

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data gather tool will encounter these challenges when any business plans and implements to apply it to predict consumer behavior in retail industry. The challenges include that as below:

1. The high cost and difficulty of implementing new technologies . The (AI) big data gather tool needs capital

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and capabilities to be designed to implement to be applied to different retail industry users. so, expensive barriers to innovation, an organization and the skillsets of its people to support a new design of (AI) big data gather tool, highly digital technology may be required.

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Disorder-assistive and neurotechnological devices are experiencing a boom in the global market. Mounting evidence suggests that approaches based on several different domains should move

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towards the goal of early diagnosis of individuals affected by neurodevelopmental disorders. Using an interdisciplinary and collaborative approach in diagnosis and support can resolve many hurdles such as lack of awareness, transport, and financial burdens by being made available to

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individuals at the onset of symptoms. Interdisciplinary Approaches to Altering Neurodevelopmental Disorders is a pivotal reference source that explores neurodevelopmental disorders and a diverse array of diagnostic tools and therapies assisted by neurotechnological devices. While

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covering a wide range of topics including individual-centered design, artificial intelligence, and multifaceted therapies, this book is ideally designed for neuroscientists, medical practitioners, clinical psychologists, special educators, counselors, therapists, researchers, academicians,



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and students.

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products sale within one to two years short term or three to five years middle term, even above five years long term business plans. Hence, if the product manufacturers can apply the most suitable consumer behavioral prediction method to predict how consumers' choice will be changed to

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reasons case the customer does not choose to buy its product, it is possible because the product high price factor, poor product quality or poor staff service performance or attitude etc. different factors to influence the consumer decides to choose to buy the other product consequently, when

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the (AI) tool can confirm consumer has good or bad emotion to judge what factors are the causes his decision making at the moment.

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Avoids Wage Inequality

The Difference Between Artificial

Intelligence and Psychological Method

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Predicts: Consumer Behavior

A New Synthesis

Impasse and Solution

**Main barriers influence artificial intelligence consumer behavioral prediction**  
**In future, it is**

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**possible that these barriers will influence how to apply (AI technology) to predict consumer behavior in success. The barriers may include: Lacking of a (AI) digital data gathering vision**



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**and strategy, lacking of  
efficient workforce  
readiness, (AI) technology  
constraints., non reaching  
(AI) consumer behavioral  
prediction mature stage,  
time and money and**

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**resource constraints, law  
and regulations prohibition  
to develop (AI) consumer  
behavioral prediction bug  
data gather  
technology. However, the  
recommendation of**

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**solutions to attack the  
barriers to influence  
artificial intelligence  
consumer behavioral  
prediction not success, it  
may include gaining  
employee buy in to**

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**participate and develop (AI)  
consumer behavioral  
prediction technology,  
making customer experience  
to a concern (AI) big data  
gather questionnaire  
investigation, providing**

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**compensation, training to  
employees in order to  
achieve (AI) consumer  
behavioral big data  
questionnaire investigation  
research digital  
technological goals and**

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**strategy, task senior leaders  
manage any (AI) digital big  
data gather technology  
changes, putting policies  
and (AI) big data gather  
digital technology in place to  
support a fully remote,**

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**flexible workforce in any (AI)  
digital big data gather  
questionnaires research  
projects, teaching all  
employees how to  
code/understand (AI) big  
data gather consumer**

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**behavioral prediction  
software development,  
appointing a chief (AI)  
officer to manage any (AI)  
big data gather customer  
behavioral prediction  
projects and automate**



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**everything and encourage  
customers to attempt  
experience to self-service  
and (AI) big data gather  
questionnaire research to  
earn beneficial consumption  
aim after they gave feedback**

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**to any (AI) digital  
questionnaire researches.  
So, in the future, the (AI)  
digital big data  
questionnaire researches  
can include these industries  
surveyed, such as automati**

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**financial services, public  
healthcare, private  
healthcare, technology,  
telecoms, insurance, life  
sciences, manufacturing,  
media and entertainment ,  
oil and gas, retail and**

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**consumer products etc.**

**Hence, in the future, any of these industries can attempt to apply (AI) digital big data gather technology to predict how and why consumer behaviors will change in**

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**order to avoid reducing  
consumer number threat  
occurrence.5.1 (AI) digital  
data gather technology  
predicts food consumer  
behavior's main  
barriers**What are the main

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**barriers to food industry?**

**When the food manufacturer  
applies (AI) big data gather  
technology to predict food  
consumer behavior? The  
barriers include that the  
food manufacturer / provider**

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**needs to decide whether  
when the right time is  
applied to the right (AI)  
digital big data prediction  
tool channel to find the right  
food consumers to be chose  
to full food consumption**

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**satisfactory questionnaires,  
how to gather multi-class  
food consumption classifiers  
on real-world food  
consumers transactional  
data from the food sale  
domain consistently to show**



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**the critical numbers of  
different kinds of food items  
at which the predictive  
performance most accurate?  
So, any food manufacturer /  
provider's advanced in (AI)  
digital data gather**

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**warehousing and  
management technologies  
can provide that  
opportunities for food  
business to enhance long  
term relationship with the  
food providers' clients.**

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**However, food industry's (AI) digital data gather aims to improve food customer product targeting, increase food customer loyalty and food purchase probability to the food supplier. To**

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**effective identify,  
understand and satisfy the  
needs of their food  
customers, the food  
suppliers need to develop  
the right (AI) digital  
questionnaire questions and**

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**find the right food  
customers to fill every right  
questions from every digital  
questionnaire at the right  
time through the right  
channel.**

**The standard economic**

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**model of consumer  
behavioral (AI) robotic  
service tool advantages  
includes: A logically  
consistent theory of  
consumer behavior can be  
built, that theory can be**

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**used to make predictions  
about consumer behavior  
and those predictions can be  
compared with reality and  
those models often  
correspond to actual  
behavior of consumption**

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**reasons. What is the inconvenient truth? It includes clear evidence from psychology has shown that the rationality assumptions of standard economic model are wrong. Evidence from**



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**psychology has shown that consumers often are irrational and also who are predictably irrational. So these are wrong view point to influence how economists judge what cause**

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**consumption of behavior.**

**Thus, it beings this  
question? What is mean of  
predictably irrational? It  
means that of irrational  
consumers were irrational in  
random ways, who would**

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**cancel each other out,  
leaving the overall outcomes  
determined by the  
behavioral consumption of  
rational consumers. As that  
case, behavioral economic  
theories that ignored**

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**irrational behavioral  
consumption would work  
just fine. But, psychology  
has shown that consumers  
are irrational in similar and  
predictable ways. Therefore,  
irrationality doesn't cancel**

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**out and can't be ignored to  
judge why the behavioral  
consumption has been  
caused.2.1How to apply (AI)  
robotic service technology to  
raise or improve service  
performance?What is**

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**psychology of consumption  
behavior? Psychology is the  
science of human behavior  
and mental consumption  
processes. In consumption  
process behavior, it is any  
consumption behaviors as**

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**well as consumer mental  
consumption process is  
consumer individual internal  
experiences, comparison  
with alternative products,  
products choice of the best,  
making decision to consume**

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**or not consume for the product. So, advertisers often persuade to influence consumers' behavior to attract them to choose to buy whose products. Why businessmen need to learn**



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**consumer psychology?**

**Because psychology can help  
businessmen scientifically to  
evaluate common consumer  
beliefs and misconceptions  
about consumption behavior  
and consumption decision**

*Page 409/445*

**making mental processes.**

**Consumption scientific  
psychology has four basic  
goals: To describe, explain,  
predict and change  
consumption behavior and  
consumption decision**

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**making mental process.**

**Consumption psychological  
information is based on  
evidence, this is information  
based on direct observation  
and measurements with  
consumption behavior with**

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**scientific method. How are  
typical images of  
psychology? Consumption  
psychologists need to use  
scientific method to help  
businessmen to think what  
predicts who own, make a**

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**list of words would who use  
to describe a psychological  
scientist and what use to  
describe a psychological  
scientist and what images  
the businessmen have.  
However, consumption**

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**psychologists have  
difference ways of looking at  
the same problem for the  
businessmen, which is why  
there are so many sub-fields  
of consumption psychology.  
Consumption psychology's**

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**roots began in philosophy,  
but the focus changes to a  
scientific focus  
consumer. Behaviorism is  
focused on consumer buying  
behavior that can be  
measured and observable.**

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**This returned the scientific approach to consumption psychology. Consumption behaviorist's believe consumers are controlled by their environment.**

**Consumption behaviorism**



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**focuses on consumption  
observable behavior.**

**However, consumption  
cognitive psychology  
believes that consumption  
behaviors are preformed  
because of the product ideas**

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**and thoughts. The cognitive perspective focuses on such consumer decision making and choice processes, such as perception, memory and thinking to the product.**

**Human-computer**

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**interaction (HCI) is one of the most significant areas of computational intelligence. This book focuses on the human emotion analysis aspects of HCI, highlighting innovative methodologies for**

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**emotion analysis by machines/computers and their application areas. The methodologies are presented with numerical results to enable researchers to replicate the work. This**

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**multidisciplinary book is  
useful to researchers and  
academicians, as well as  
students wanting to pursue a  
career in computational  
intelligence. It can also be  
used as a handbook,**

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**reference book, and a textbook for short courses. Is (AI) the best and the most effective and accurate consumer behavioral prediction tool to compare other kinds of consumer**

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**behavioral prediction tools?**

**Nowadays, retailing  
competitions are serious  
businessmen often find  
different kinds of methods to  
attempt to predict consumer  
changes. The consumer**

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**behavioral predictive  
methods can include as  
these below methods,  
instead of (AI) big data  
gathering tool. Firstly,  
statistics is the popular  
mathematic method, it**



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**applies auto-regression,  
linear regression, structural  
equation modelling, logistic  
regression statistic  
techniques to be used to  
predict consumer behaviors.  
Secondly, it is classification**

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**method, it is a support  
vector machine to assist  
businessmen to make  
consumer behavioral  
prediction, it also includes  
decision making tree  
diagram technique. Thirdly,**

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**it is rule mining method, it is algorithm, market base analytic etc. business marketing concept analytical tool, it also includes graph mining technique tool. Next, it is psychological prediction**

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**model tool, it is psychology  
prediction model too, it is a  
kind of psychological  
method to predict consumer  
behaviors. Finally, it is the  
most updated and potential  
artificial neural network**

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**(ANN) machine tool, it gathered big data, then it will carry on analyzing and applies psychological method to conclude the most accurate and reasonable solutions to give**

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**recommendation to  
businesses to predict when  
and how and why their  
consumer behaviors will  
change. So, it is one owned  
human mind's machine and  
owned psychological and**

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**analytical efforts to replace humans to make any judgement in order to make the most accurate predictive behavioral changes for consumers, instead of the traditional marketing**

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**concept and psychological  
and mathematic methods to  
predict consumer behavior,  
(AI) big data gathering tool  
will be another new  
tool. What are the  
advantages of (AI) tool to be**



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**used to predict consumer behaviors as well as what are the different between it and other traditional consumer behavioral predictive tools? I shall explain as below:**

**Firstly, as above all case**

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**studies are explained to (AI) questionnaire design method benefit, I believe (AI) big data gathering tool can be applied to help human to analyze and design any the suitable valid questions to**

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**enquire any kinds of  
business consumers in order  
to gather the most meaning  
and useful opinions to  
conclude the most accurate  
consumer behavioral  
prediction for every**

**questionnaire. So, future (AI)'s analytical effort and decision making effort must be exceeded above human's judgement efforts. So, future (AI) can help human to design the most useful and**

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**meaning different kinds of  
valid questionnaire ( survey)  
questions as well as assist  
humans to analyze and make  
accurate decision making  
and conclusions to give  
opinions to help**

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**businessmen to predict when  
consumer behaviors will  
change and how their  
consumption behaviors will  
change to influence their  
businesses in order to help  
them to make any efficient**

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**and effective and accurate solutions to avoid consumer number to be decreased and the most important benefit is that it can give opinions to help businessmen to explain why ( what the factors )**

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**cause their consumer behaviors change suddenly. It will be human's efforts can not achieve to exceed (AI)'s efforts in the future. Secondly, (AI) can make artificial machine**



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**judgement and analytical  
effort, without human  
misleading or unfair or  
unreasonable judgement. So,  
it can make more fair and  
reasonable and accurate  
conclusion to give opinions**

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**to predict when, how and  
why consumer behaviors will  
change suddenly to the kind  
of business in customer  
model building process and  
evaluating the results of  
customer relationship**

*Page 442/445*

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**management -related  
investment more accurate.**

**Artificial Intelligence in  
Healthcare**

**Artificial Intelligence and  
Marketing Consumer  
Behavioral Prediction**

*Page 443/445*

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**Artificial Intelligence in  
Behavioral and Mental  
Health Care  
Prediction Artificial  
Intelligence Consumer  
Behavioral Trend  
Artificial Intelligence Raises**

*Page 444/445*

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