

Measuring Aggressive Driving Behavior Using A Driving

Two studies were conducted to investigate the relationship between age, personality factors and aggressive driving behavior. In Study 1, 1122 volunteers completed an online survey that included questionnaires on demographic data, personality factors, and driving behavior. Personality factors were measured using the Revised Competitiveness Index, the Sensation Seeking Scale, the Big Five Inventory, and the Cook Medley Hostility Scale, whereas aggressive driving behavior was measured using the Aggressive Driving Behavior Scale (ADBS). The majority of the volunteers were female (786 versus 336), while ages ranged from 18 to 87. In Study 2, 98 volunteers from Study 1 were recruited to perform driving simulations on two scenarios. These volunteers consisted of 52 females and 46 males, with ages ranging from 18 to 83. Results from both studies produced positive correlations between aggressive driving behavior and competitiveness, sensation seeking, hostility, extraversion, and neuroticism, while negative correlations were obtained between aggressive driving behavior and age, agreeableness, conscientiousness, and openness. No significant correlation was obtained between gender and aggressive driving behavior. Most importantly, scores in the ADBS were positively correlated to a composite of scores

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measuring aggressive driving behavior in the simulator. This pattern of results not only validates the ADBS, but it also provides another mechanism to study aggressive driving behavior.

This important book focuses on passenger and freight transportation modes: policy analysis, formulation and evaluation; planning; interaction with the political, socioeconomic and physical environment; design, management and evaluation of transportation systems.

Effective use of driving simulators requires considerable technical and methodological skill along with considerable background knowledge. Acquiring the requisite knowledge and skills can be extraordinarily time consuming, yet there has been no single convenient and comprehensive source of information on the driving simulation research being conducted around the world. A how-to-do-it resource for researchers and professionals, Handbook of Driving Simulation for Engineering, Medicine, and Psychology brings together discussions of technical issues in driving simulation with broad areas in which driving simulation is now playing a role. The chapters explore technical considerations, methodological issues, special and impaired populations, evaluation of in-vehicle and nomadic devices, and infrastructure evaluations. It examines hardware and software selection, visual database and scenario development, independent subject variables and dependent vehicle, environmental, and psychological variables, statistical and biostatistical analysis, different types of drivers,

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existing and future key-in vehicle devices, and validation of research. A compilation of the research from more than 100 of the world's top thinkers and practitioners, the book covers basic and advanced technical topics and provides a comprehensive review of the issues related to driving simulation. It describes literally hundreds of different simulation scenarios, provides color photographs of those scenarios, and makes available select videos of the scenarios on an accompanying web site, all of which should prove essential for seasoned researchers and for individuals new to driving simulation.

Human Aggression Springer Science & Business Media

This comprehensive 2nd edition covers the key issues that relate human behavior to traffic safety. In particular it covers the increasing roles that pedestrians and cyclists have in the traffic system; the role of infotainment in driver distraction; and the increasing role of driver assistance systems in changing the driver-vehicle interaction. ??This book contains three sections. Part I includes an introductory chapter and an applied chapter on conducting a risk assessment. Part II provides a description of how the measures were organized and quick-view tables that provide easy access to measures with enough information to allow for an estimate of the likelihood that reading additional information about a particular measure would prove fruitful. Measures are organized alphabetically into tables for measures of anger, aggression, or violence. Each of the tables provides the name of the measure, the purpose for which the

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measure was developed, and the targeted population. The tables also provide information on the method of assessment, the amount of time required to use the measure, and the page number where additional information is available. Part II also contains the review of each measure. Part III provides examples of measures that can be copied for research or clinical purposes. ?

This book constitutes the refereed proceedings of the Third International Conference on HCI in Mobility, Transport, and Automotive Systems, MobiTAS 2021, held as part of the 23rd International Conference, HCI International 2021, held as a virtual event, in July 2021. The total of 1276 papers and 241 posters included in the 39 HCII 2021 proceedings volumes was carefully reviewed and selected from 5222 submissions. MobiTAS 2021 includes a total of 39 papers which focus on topics related to urban mobility, cooperative and automated mobility, UX in intelligent transportation systems, and mobility for diverse target user groups.

This 1991 book is a major theoretical integration of several previously isolated literatures looking at human error in major accidents.

The rapid evolution of technology continuously changes the way people interact, work, and learn. By examining these advances from a sociological perspective, researchers can further understand the impact of cyberspace on human behavior, interaction, and cognition.

Multigenerational Online Behavior and Media Use: Concepts, Methodologies, Tools, and Applications is a vital reference source covering the impact of social networking platforms on a variety of relationships, including those between individuals, governments, citizens, businesses, and consumers. The publication also highlights the negative behavioral, physical,

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and mental effects of increased online usage and screen time such as mental health issues, internet addiction, and body image. Showcasing a range of topics including online dating, smartphone dependency, and cyberbullying, this multi-volume book is ideally designed for sociologists, psychologists, computer scientists, engineers, communication specialists, academicians, researchers, and graduate-level students seeking current research on media usage and its behavioral effects.

Road accidents are the major cause of death and injury among young people in the developing world, and the field of psychology can offer great insights into the many factors that are at play when we get behind the wheels of our cars. Based on data collected around the world on drivers of all age groups, Graham Hole provides an up to date picture of the realities of driving, including visual perception issues, cell phone distractions, fatigue, drugs, and the effects of aging. These insights can help explain why we crash, as well as how we achieve the amazing feat of not crashing more often than we do. In this jargon-free and very accessible book, Hole applies psychological methods and insights to this every-day experience with two audiences in mind. First, he speaks to accident investigators, who frequently rely on well-developed understandings of engineering and forensics and less insight into the psychology of the driver. Second, of course, this book will be of value to anyone interested in the application of cognitive psychology to real-world behaviors, and to anyone who drives.

This three-volume set, LNAI 10937, 10938, and 10939, constitutes the thoroughly refereed proceedings of the 22nd Pacific-Asia Conference on Advances in Knowledge Discovery and Data Mining, PAKDD 2018, held in Melbourne, VIC, Australia, in June 2018. The 164 full papers were carefully reviewed and selected from 592 submissions. The volumes present

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papers focusing on new ideas, original research results and practical development experiences from all KDD related areas, including data mining, data warehousing, machine learning, artificial intelligence, databases, statistics, knowledge engineering, visualization, decision-making systems and the emerging applications.

Social skills are at the core of mental health, so much so that deficits in this area are a criterion of clinical disorders, across both the developmental spectrum and the DSM. The Practitioner's Guide to Empirically-Based Measures of Social Skills gives clinicians and researchers an authoritative resource reflecting the ever growing interest in social skills assessment and its clinical applications. This one-of-a-kind reference approaches social skills from a social learning perspective, combining conceptual background with practical considerations, and organized for easy access to material relevant to assessment of children, adolescents, and adults. The contributors' expert guidance covers developmental and diversity issues, and includes suggestions for the full range of assessment methods, so readers can be confident of reliable, valid testing leading to appropriate interventions. Key features of the Guide: An official publication of the Association for Behavioral and Cognitive Therapies Describes empirically-based assessment across the lifespan. Provides in-depth reviews of nearly 100 measures, their administration and scoring, psychometric properties, and references. Highlights specific clinical problems, including substance abuse, aggression, schizophrenia, intellectual disabilities, autism spectrum disorders, and social anxiety. Includes at-a-glance summaries of all reviewed measures. Offers full reproduction of more than a dozen measures for children, adolescents, and adults, e.g. the Interpersonal Competence Questionnaire and the Teenage Inventory of Social Skills. As social skills assessment and training becomes more crucial to

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current practice and research, the Practitioner's Guide to Empirically-Based Measures of Social Skills is a steady resource that clinicians, researchers, and graduate students will want close at hand.

They are familiar scenes - sports fans turning on each other in acts of violence, and mobs of sports fans flooding onto the field or out into the streets. This book aims to discover if there is something inherent in the competitive sport setting that produces this frequently dangerous behaviour.

also many newer lines of research, to which I will return below, are represented in various chapters. And finally, I have included a separate unit on methods for the study of aggression-a feature that I believe to be unique to the present volume. In these ways, I have attempted to produce a text that is as broad and eclectic in coverage as I could make it. While the present volume grew, in part, out of my desire to produce what I thought might prove to be a useful teaching aid, it also developed out of a second major motive. During the past few years, a large number of new-and to me, exciting-lines of investigation have emerged in rapid order. These have been extremely varied in scope, including, among many others, such diverse topics as the effects of sexual arousal upon aggression, the impact of environmental factors (e. g. , heat, noise, crowding) upon such behavior, interracial aggression, and the influence of heightened self-awareness.

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Despite the fact that such topics have already generated a considerable amount of research, they were not, to my knowledge, adequately represented in any existing volume. Given this state of affairs, it seemed to me that a reasonably comprehensive summary of this newer work might prove both useful and timely. This volume covers assessment for instruments for use with adults.

World-class experts from academia and industry assembled at the sixth Biennial Workshop on Digital Signal Processing (DSP) for In-Vehicle Systems at Korea University, Seoul, Korea in 2013. The Workshop covered a wide spectrum of automotive fields, including in-vehicle signal processing and cutting-edge studies on safety, driver behavior, infrastructure, in-vehicle technologies. Contributors to this volume have expanded their contributions to the Workshop into full chapters with related works, methodology, experiments, and the analysis of the findings. Topics in this volume include: DSP technologies for in-vehicle systems Driver status and behavior monitoring In-Vehicle dialogue systems and human machine interfaces In-vehicle video and applications for safety Passive and active driver assistance technologies Ideas and systems for autonomous driving Transportation infrastructure

"TRB's Commercial Truck and Bus Safety Synthesis Program (CTBSSP) Synthesis 21: Driver Selection Tests and Measurement synthesizes information

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on the use of tests, measurements, and other assessment methods used by commercial truck and bus companies in the driver selection process. The report also identifies and describes driver selection methods and instruments and their potential usefulness in predicting driver crash risk."--Publisher's description. Issues in Engineering Research and Application: 2013 Edition is a ScholarlyEditions™ book that delivers timely, authoritative, and comprehensive information about Noise Control Engineering. The editors have built Issues in Engineering Research and Application: 2013 Edition on the vast information databases of ScholarlyNews.™ You can expect the information about Noise Control Engineering in this book to be deeper than what you can access anywhere else, as well as consistently reliable, authoritative, informed, and relevant. The content of Issues in Engineering Research and Application: 2013 Edition has been produced by the world's leading scientists, engineers, analysts, research institutions, and companies. All of the content is from peer-reviewed sources, and all of it is written, assembled, and edited by the editors at ScholarlyEditions™ and available exclusively from us. You now have a source you can cite with authority, confidence, and credibility. More information is available at <http://www.ScholarlyEditions.com/>.

Over the course of the past few years, teaching, research, and practice has

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underscored the importance of performance measurement and criterion development as topics of great interest, considerable debate, and some misunderstanding. It has also become clear that the field needs to address a compendium of research, applications, and issues. Performance Measurement: Current Perspectives and Future Challenges brings together internationally recognized leaders in the field and each examines the subject matter in a way that has never been done--focusing on the dynamic nature of work and the tremendous demands being placed on assessment and measurement as core organizational activities. It also uniquely uses their expertise to provide critical pointers to not only the practical implications of work in the field, but also to the new and continuing issues to be addressed and research to be conducted. The book will be useful to both scientists and practitioners.

and Reduction." --Book Jacket.

Aggressive driving behavior is the cause of a large percentage of accidents and fatalities, and it is growing every year. In several cases some drivers perceive their driving as non-aggressive when in fact they drive aggressively. To investigate factors affecting perceived (self-reported) and observed (based on the data from a driving simulation experiment) aggressive driving behavior, four fixed effect bivariate ordered probit models for three categories of aggressive driving behavior (i.e., observed and perceived non-aggressive, somewhat aggressive and very aggressive driving) are estimated. The models simultaneously account for panel data effects and cross

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equation error correlation. To further address unobserved heterogeneity, six grouped random parameter bivariate probit models for two outcomes (observed and perceived non-aggressive and aggressive driving) are estimated. Each model type is estimated using different barriers as driving behavior separators (either physical barriers in the distribution, or basic statistical measures). The results show that different socio-demographic characteristics, driving experience and exposure, and behavioral information of the participants affect the observed and the perceived aggressive driving behavior. The proposed approach, as a whole, provides an incremental step towards better understanding the different factors that affect the observed and the perceived aggressive driving behavior.

Annotation Road Rage provides a detailed and integrative summary of the existing literature on aggressive driving as well as detailed assessment information on the aggressive drivers from a variety of perspectives?standardized psychological tests, psychiatric diagnoses, and psychophysiological measurement, among others.

This volume constitutes the refereed proceedings of the 6th Workshop on Engineering Applications, WEA 2019, held in Santa Marta, Colombia, in October 2019. The 62 revised full papers and 2 short papers presented in this volume were carefully reviewed and selected from 178 submissions. The papers are organized in the following topical sections: computer science; computational intelligence; bioengineering; Internet of things; power applications; simulation systems; optimization.

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The chapters in this volume have been written by authors whose research work emphasizes the aggression-eliciting characteristics of people and other animals, the traits that make them targets of aggressive behavior. The clear focus of the book is on aggression by humans, although some of the authors may refer to data from other species. Chapters include aggression and violence towards other species, sexual minorities, psychiatric workers, school children, athletes, women, and drivers on highways. There are additional targets of aggressive behavior which have not been included because they are not emphasised in the research literature of psychology. Since the major concern of psychological science is with the behavior of individuals rather than groups, topics such as racial violence, warfare, and political violence have been specifically excluded.

The second edition of this thoroughly revised textbook provides an updated and expanded overview of social psychological research on aggression. The first part covers the definition and measurement of aggression, presenting major theories, and also charting its development whilst at the same time examining the role of personality and gender differences. This part also covers the role of situational factors in eliciting aggression, and the impact of using violent media. The second part of the book is devoted to specific forms and manifestations...

This book discusses the latest advances in the research and development, design, operation, and analysis of transportation systems and their corresponding infrastructures. It presents both theories and case studies on road and rail, aviation, and maritime transportation. Further, it covers a wealth of topics, from accident analysis, intelligent vehicle control, and human-error

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and safety issues to next-generation transportation systems, model-based design methods, simulation and training techniques, and many more. Special emphasis is placed on smart technologies and automation in transport, as well as the user-centered, ergonomic, and sustainable design of transportation systems. The book, which is based on the AHFE 2020 Virtual Conference on Human Aspects of Transportation, held on July 16–20, 2020, mainly addresses the needs of transportation system designers, industrial designers, human–computer interaction researchers, civil and control engineers, as well as vehicle system engineers. Moreover, it represents a timely source of information for transportation policy-makers and social scientists whose work involves traffic safety, management, and sustainability issues in transport.

This book includes the outcomes of the International Conference on Advanced Intelligent Systems for Sustainable Development (AI2SD-2018), held in Tangier, Morocco on July 12–14, 2018. Presenting the latest research in the field of computing sciences and information technology, it discusses new challenges and provides valuable insights into the field, the goal being to stimulate debate, and to promote closer interaction and interdisciplinary collaboration between researchers and practitioners. Though chiefly intended for researchers and practitioners in advanced information technology management and networking, the book will also be of interest to those engaged in emerging fields such as data science and analytics, big data, internet of things, smart networked systems, artificial intelligence, expert systems and cloud computing.

Motor Vehicle Collisions: Medical, Psychosocial, and Legal Consequences is a comprehensive review of the motor vehicle collision (MVC) experience and includes chapters relevant to the

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assessment and treatment of multiple consequences of MVC involvement, including medical, psychosocial, and legal difficulties. The book is designed to be accessible to both clinicians and researchers interested in the study of MVCs and in the management of MVC-related problems. The aim of this book is to capture the MVC experience from a multidisciplinary perspective, This book will serve as a necessary reference for physicians, rehabilitation specialists, allied medical professionals, psychologists, and lawyers. Presents the complete chronology of an MVC from immediate aftermath to chronic disability Details evidence-based assessment and treatment practices across disciplines Addresses cultural factors that influence assessment and treatment of MVC sufferers

This book constitutes the refereed post-conference proceedings of the 16th International Conference on Persuasive Technology, PERSUASIVE 2021, held as a virtual event, in April 2021. The 17 full papers presented in this book together with 8 short papers were carefully reviewed and selected from 67 submissions. The papers are grouped in topical sections as follows: persuasive affective technology; digital marketing, ecommerce, etourism and smart ecosystems; and persuasion and education.

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