adas and autonomous vehicle technology expo

The Future is Driving: Exploring the Implications of the ADAS and Autonomous Vehicle Technology Expo

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Edited by Mark Olsen, Senior Editor, Automotive Insights, with 15 years of experience covering the automotive industry, specializing in advanced driver-assistance systems (ADAS) and autonomous vehicle technology.

The ADAS and autonomous vehicle technology expo is more than just a showcase; it's a pivotal event reflecting the rapid transformation of the automotive industry. This year's expo, brimming with cutting-edge innovations, serves as a microcosm of the challenges and opportunities facing manufacturers, researchers, and policymakers alike as we navigate the path towards fully autonomous driving.

The Shifting Landscape: From ADAS to Full Autonomy

The ADAS and autonomous vehicle technology expo prominently featured a wide range of advanced driver-assistance systems, from lane-keeping assist and adaptive cruise control to automated emergency braking and parking systems. These features, already commonplace in many vehicles, are steadily becoming more sophisticated and integrated, paving the way for higher levels of autonomy. The expo highlighted the significant advancements in sensor technology, particularly lidar, radar, and camera systems, which are crucial for enabling vehicles to perceive their environment accurately. The integration and fusion of data from these diverse sensors, along with improvements in artificial intelligence (AI) and machine learning (ML) algorithms, are driving the development of more robust and reliable autonomous driving capabilities. This was evident in the numerous demonstrations at the ADAS and autonomous vehicle technology expo, showcasing vehicles capable of navigating complex urban environments with minimal human intervention.

Key Trends at the Expo

Several key trends emerged from the ADAS and autonomous vehicle technology expo:

Increased focus on safety: Safety remains paramount, and the expo demonstrated significant advancements in accident avoidance systems and fail-safe mechanisms. Robust testing and validation methodologies were also a prominent theme, reflecting the industry's commitment to ensuring the safety and reliability of autonomous vehicles.

The rise of edge computing: Processing vast amounts of sensor data in real-time is critical for autonomous driving. The expo highlighted the increasing importance of edge computing, allowing for faster processing and reduced latency, leading to more responsive and safer autonomous vehicles.

Collaboration and partnerships: The development of autonomous driving technology requires a collaborative approach. The ADAS and autonomous vehicle technology expo showcased numerous partnerships between automakers, technology companies, and research institutions, highlighting the importance of shared resources and expertise.

Cybersecurity concerns: The expo also addressed the growing concerns about cybersecurity threats to autonomous vehicles. Discussions focused on the need for robust cybersecurity measures to protect vehicles from hacking and malicious attacks.

Ethical considerations: The ethical implications of autonomous driving were also a prominent topic. The expo featured panels and discussions exploring the complex ethical dilemmas associated with accident scenarios and decision-making in autonomous vehicles.

Implications for the Industry

The ADAS and autonomous vehicle technology expo underscores the profound implications of these advancements for the automotive industry. We are witnessing a shift not only in vehicle technology but also in business models, manufacturing processes, and even urban planning. The transition to autonomous vehicles will require significant investments in infrastructure, including the development of smart cities and improved communication networks. Furthermore, the automotive workforce will need to adapt to the changing skill requirements of the autonomous driving era.

The Road Ahead: Challenges and Opportunities

Despite the impressive progress showcased at the ADAS and autonomous vehicle technology expo, significant challenges remain. The development of truly reliable and safe autonomous vehicles requires overcoming obstacles such as unpredictable human behavior, adverse weather conditions, and the complexities of navigating diverse and dynamic environments. Addressing these challenges will necessitate continued research and development, as well as the establishment of clear regulatory frameworks.

However, the opportunities are immense. The widespread adoption of autonomous vehicles promises to revolutionize transportation, improving safety, reducing congestion, and enhancing accessibility for people with disabilities. The ADAS and autonomous vehicle technology expo provided a glimpse into this future, inspiring innovation and collaboration across the industry.

Conclusion

The ADAS and autonomous vehicle technology expo served as a powerful reminder of the rapid pace of innovation in the automotive sector. While significant challenges remain, the advancements showcased at the expo offer a compelling vision of a future where autonomous vehicles transform the way we live, work, and travel. The collaborative spirit and commitment to safety evident at the expo are encouraging signs that we are steadily moving closer to a future where autonomous driving becomes a reality.

FAQs

1. What is the difference between ADAS and autonomous driving? ADAS systems assist the driver, while autonomous driving systems can operate without human intervention.

1. What are the key sensor technologies used in autonomous vehicles? Lidar, radar, and cameras are essential sensor technologies.

1. What are the ethical considerations of autonomous driving? Ethical dilemmas arise around accident scenarios and decision-making algorithms.

1. How is cybersecurity addressed in autonomous vehicles? Robust security measures are crucial to prevent hacking and malicious attacks.

1. What role does AI play in autonomous driving? AI and ML are fundamental for perception, decision-making, and control.

1. What are the implications for infrastructure? Smart cities and improved communication networks are necessary.

1. What are the job market implications? The workforce needs to adapt to new skill requirements.

1. What are the regulatory challenges? Clear and consistent regulations are needed to ensure safety and standardization.

1. When can we expect widespread adoption of autonomous vehicles? Widespread adoption is still some years away, but progress is accelerating.

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adas and autonomous vehicle technology expo: Automated Driving Daniel Watzenig, Martin Horn, 2016-09-23 The main topics of this book include advanced control, cognitive data processing, high performance computing, functional safety, and comprehensive validation. These topics are seen as technological bricks to drive forward automated driving. The current state of the art of automated vehicle research, development and innovation is given. The book also addresses industry-driven roadmaps for major new technology advances as well as collaborative European initiatives supporting the evolvement of automated driving. Various examples highlight the state of development of automated driving as well as the way forward. The book will be of interest to academics and researchers within engineering, graduate students, automotive engineers at OEMs and suppliers, ICT and software engineers, managers, and other decision-makers.

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enabling technologies, human factors and an analysis of social and economic impacts. The book is an invaluable resource for those pursuing deeper knowledge in the intelligent vehicles field, providing readers with an idea of current and future technologies, current projects and developments and the future of intelligent vehicles. Intelligent road vehicles are becoming a challenging area of research worldwide. Apart from the final applications and systems in vehicles, there are many enabling technologies that should be introduced. Communications and automation are two key areas for future automobiles. This book benefits from collaboration on the Thematic Network on Intelligent Vehicles led by Felipe Jimenez. - Provides a general overview of different aspects related to intelligent road vehicles (sensors, applications, communications, automation, human factors, etc.) - Addresses the different components and building blocks of intelligent vehicles in a single, comprehensive reference - Explains how sensors are interpreted, including how different sensor readings are fused - Addresses issues involved with avoiding collisions and other factors such as pot holes, unclear road lines or markings, and unexpected weather conditions

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adas and autonomous vehicle technology expo: Autonomous Ground Vehicles Ümit Özgüner, Tankut Acarman, Keith Alan Redmill, 2011 In the near future, we will witness vehicles with the ability to provide drivers with several advanced safety and performance assistance features. Autonomous technology in ground vehicles will afford us capabilities like intersection collision warning, lane change warning, backup parking, parallel parking aids, and bus precision parking. Providing you with a practical understanding of this technology area, this innovative resource focuses on basic autonomous control and feedback for stopping and steering ground

vehicles.Covering sensors, estimation, and sensor fusion to percept the vehicle motion and surrounding objects, this unique book explains the key aspects that makes autonomous vehicle behavior possible. Moreover, you find detailed examples of fusion and Kalman filtering. From maps, path planning, and obstacle avoidance scenarios...to cooperative mobility among autonomous vehicles, vehicle-to-vehicle communication, and vehicle-to-infrastructure communication, this forward-looking book presents the most critical topics in the field today.

adas and autonomous vehicle technology expo: Automatisiertes Fahren 2024 Alexander Heintzel, 2024-07-26 Automatisiertes Fahren hilft Unfälle zu vermeiden. KI-unterstützte Roboterautos sind aber auch Grundlage für datengetriebene Geschäftsmodelle der OEMs. Konzepte zukünftiger Mobilitätslösungen müssen aus der Perspektive der Nutzer, der urbanen sowie der ländlichen Region und zielführender Geschäftsmodelle entwickelt werden, um erfolgreich zu sein. Im Fokus stehen dabei Verkehrssicherheit und Leistungsfähigkeit ebenso wie ökologische, ökonomische und soziale Nachhaltigkeit. Die internationale Konferenz „Automatisiertes Fahren" widmet sich als Informations- und Kommunikationsplattform den zentralen Aspekten des Mobilitätswandels. Um die zentralen Herausforderungen künftiger ADAS-Systeme zu erfüllen, müssen Bereiche wie Sensorfusion, Rechnertechnik, KI oder V2X-Kommunikation optimiert werden, um die dafür notwendigen System-of-Systems-Architekturen entwickeln zu können. Die seit Jahren etablierte internationale ATZlive-Fachkonferenz Automatisiertes Fahren wird daher um die Themen DevOps, Tooling, Algorithmenentwicklung, Programmierung sowie SDW und E/E-Architektur erweitert. ADAS-Systeme werden fortlaufend weiterentwickelt, um Nutzerinnen und Nutzer nachhaltig zu unterstützen. Dabei ist es wichtig, sowohl die Verkehrssicherheit zu steigern als auch die Verfügbarkeit zu verbessern sowie die Akzeptanz der Systeme im Markt zu erreichen. Dafür müssen Bereiche wie Sensorfunktion, Umfeldmodellierung, Situationsprädiktion, Trajektorenplanung und Entscheidungsfindung auf der einen Seite und die Rechnertechnik und die V2X-Kommunikation auf der anderen Seite – unterstützt durch KI – optimiert werden, um die dafür notwendigen System-of-Systems-Architekturen entwickeln zu können. Die 9. Internationale ATZ-Tagung „Automatisiertes Fahren" ist ein Forum für Entwicklungsmethodik, Technologiestacks und Security. Sie steht für Engineering AVF Level 2X und diskutiert Engineering und Technologien für das automatisierte Fahren ab Level 2+.

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features of driver assistance systems for particular vehicles are presented: Systems for commercial vehicles and motorcycles.

adas and autonomous vehicle technology expo: Sustainable Vehicle Technologies Institution of Mechanical Engineers, 2012-11-06 This book contains the papers from the IMechE's Sustainable Vehicle Technologies 2012 conference. An innovative technical conference organised by the Automobile Division of the IMechE, it follows on from the 2009 Low Carbon Vehicle conference, which established a high standard with presentations primarily focussed on powertrain technology. The conference examines the latest advances in technology with a view towards understanding the consequences of carbon dioxide reduction over the entire vehicle lifecycle. Papers cover all aspects of the finite resources available for vehicle production, operation and recycling. - Presents the papers from this leading conference - Covers life time emissions and sustainability over the entire product life-cycle - Considers all areas of environmental pollution in addition to the goals for delivering low-carbon vehicles

adas and autonomous vehicle technology expo: *Emerging Cutting-Edge Developments in Intelligent Traffic and Transportation Systems* M. Shafik, 2024-03-05 With the advent and development of AI and other new technologies, traffic and transportation have changed enormously in recent years, and the need for more environmentally-friendly solutions is also driving innovation in these fields. This book presents the proceedings of ICITT 2023, the 7th International Conference on Intelligent Traffic and Transportation, held from 18-20 September 2023 in Madrid, Spain. This annual conference is becoming one of the leading international conferences for presenting novel and fundamental advances in the fields of intelligent traffic and transportation. It also serves to foster communication among researchers and practitioners working in a wide variety of scientific areas with a common interest in intelligent traffic and transportation and related techniques. ICITT welcomes scholars and researchers from all over the world to share experiences and lessons with other enthusiasts, and develop opportunities for cooperation. The 27 papers included here represent an acceptance rate of 64% of submissions received, and were selected following a rigorous review process. Topics covered include autonomous technology; industrial automation; artificial intelligence; machine, deep and cognitive learning; distributed networking; transportation in future smart cities; hybrid vehicle technology; mobility; cyber-physical systems; design and cost engineering; enterprise information management; product design; intelligent automation; ICT-enabled collaborative global manufacturing; knowledge management; product-service systems; optimization; product lifecycle management; sustainable systems; machine vision; Industry 4.0; and navigation systems. Offering an overview of recent research and current practice, the book will be of interest to all those working in the field.

adas and autonomous vehicle technology expo: *Road Vehicle Automation 4* Gereon Meyer, Sven Beiker, 2017-06-28 This book is the fourth volume of the sub series of the Lecture Notes in Mobility dedicated to Road Vehicle Automation. lts chapters have been written by researchers, engineers and analysts from all around the globe. Topics covered include public sector activities, human factors and challenges, ethical, legal, energy and technology perspectives, vehicle systems development, as well as transportation infrastructure and planning. The book is based on the Automated Vehicles Symposium which took place in San Francisco, California (USA) in July 2016.

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in-cabin noise. In Acoustical Materials, readers will grasp the science of reducing sound and vibration using sound absorbers, sound barriers, and vibration dampers. Sound provides information on the proper operation of the vehicle, but if unchecked, can detract from the consumer experience within the vehicle and create noise pollution outside the vehicle. Acoustical Materials provides essential information on the basics of sound, vehicle noise source, how these are measured, how vehicle owners perceive sound, and ultimately, how to solve noise problems in vehicles using sound package materials.

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adas and autonomous vehicle technology expo: Automotive User Interfaces Gerrit Meixner, Christian Müller, 2017-02-27 This book focuses on automotive user interfaces for in-vehicle usage, looking at car electronics, its software of hidden technologies (e.g., ASP, ESP), comfort functions (e.g., navigation, communication, entertainment) and driver assistance (e.g., distance checking). The increased complexity of automotive user interfaces, driven by the need for using consumer electronic devices in cars as well as autonomous driving, has sparked a plethora of new research within this field of study. Covering a broad spectrum of detailed topics, the authors of this edited volume offer an outstanding overview of the current state of the art; providing deep insights into usability and user experience, interaction techniques and technologies as well as methods, tools and its applications, exploring the increasing importance of Human-Computer-Interaction (HCI) within the automotive industry Automotive User Interfaces is intended as an authoritative and valuable resource for professional practitioners and researchers alike, as well as computer science and engineering students who are interested in automotive interfaces.

adas and autonomous vehicle technology expo: Smart Cities Stan McClellan, Jesus A. Jimenez, George Koutitas, 2017-08-03 This book reviews the applications, technologies, standards, and other issues related to Smart Cities. The book is divided into broad topical sections including Vision & Reality, Technologies & Standards, Transportation Considerations, and Infrastructure & Environment. In these sections, authors who are experts in their fields present essential aspects of applications, technologies, requirements, and best-practices. In all cases, the authors have direct, substantive experience with the subject and present an important viewpoint driven by industry or governmental interests; the authors have each participated in the development and/or deployment of constituent technologies, standards, and applications, and share unique perspectives on key areas of the Smart City.

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adas and autonomous vehicle technology expo: Data Analytics: Paving the Way to Sustainable Urban Mobility Eftihia G. Nathanail, Ioannis D. Karakikes, 2018-12-11 This book aims at showing how big data sources and data analytics can play an important role in sustainable mobility. It is especially intended to provide academicians, researchers, practitioners and decision

makers with a snapshot of methods that can be effectively used to improve urban mobility. The different chapters, which report on contributions presented at the 4th Conference on Sustainable Urban Mobility, held on May 24-25, 2018, in Skiathos Island, Greece, cover different thematic areas, such as social networks and traveler behavior, applications of big data technologies in transportation and analytics, transport infrastructure and traffic management, transportation modeling, vehicle emissions and environmental impacts, public transport and demand responsive systems, intermodal interchanges, smart city logistics systems, data security and associated legal aspects. They show in particular how to apply big data in improving urban mobility, discuss important challenges in developing and implementing analytics methods and provide the reader with an up-to-date review of the most representative research on data management techniques for enabling sustainable urban mobility

adas and autonomous vehicle technology expo: Road Vehicle Automation Gereon Meyer, Sven Beiker, 2014-06-07 This contributed volume covers all relevant aspects of road vehicle automation including societal impacts, legal matters, and technology innovation from the perspectives of a multitude of public and private actors. It is based on an expert workshop organized by the Transportation Research Board at Stanford University in July 2013. The target audience primarily comprises academic researchers, but the book may also be of interest to practitioners and professionals. Higher levels of road vehicle automation are considered beneficial for road safety, energy efficiency, productivity, convenience and social inclusion. The necessary key technologies in the fields of object-recognition systems, data processing and infrastructure communication have been consistently developed over the recent years and are mostly available on the market today. However, there is still a need for substantial research and development, e.g. with interactive maps, data processing, functional safety and the fusion of different data sources. Driven by stakeholders in the IT industry, intensive efforts to accelerate the introduction of road vehicle automation are currently underway.

adas and autonomous vehicle technology expo: *Internet of Things – The Call of the Edge* Ovidiu Vermesan, Joël Bacquet, 2022-09-01 This book provides an overview of the Internet of Things (IoT) – covering new ideas, concepts, research and innovation to enable the development of IoT technologies in a global context. The work is intended as a standalone book in a series covering the activities of the Internet of Things European Research Cluster (IERC) – including research, technological innovation, validation, and deployment. The book chapters build on the developments and innovative ideas put forward by the IERC, the IoT European Large-Scale Pilots Programme and the IoT European Security and Privacy Projects – presenting new concepts, ideas and future IoT trends and ways of integrating open data frameworks and IoT marketplaces into larger deployment ecosystems. The IoT and Industrial Internet of Things technologies are moving towards hyperautomated solutions – combining hyperconnectivity, artificial intelligence (AI), distributed ledger technologies and virtual/augmented extended reality, with edge computing and deep edge processing becoming an assertive factor across industries for implementing intelligent distributed computing resources and data to keep the efficient data exchange and processing local to reduce latency, exploit the sensing/actuating capabilities and enable greater autonomy. Expanding the adoption of consumer, business, industrial and tactile IoT requires further development of hyperautomated IoT concepts for collaborative solutions involving machines and humans to expand augmented creativity at the application level using AI to optimise the industrial processes and progress towards a symbiotic economy based on distributed federated cloud/edge infrastructure allowing resource sharing in the form of computing, memory and analytics capabilities. The advances of autonomous IoT applications delivering services in real-time encompasses development in servitisation, robotisation, automation and hyperconnectivity, which are essential for the rapid evolution of industrial enterprises in the new digital era. The rise of digital twins integrated into IoT platforms as fully interactive elements embedded into the simulation and optimisation environment, as well as the embedment of AI techniques and methods, enhances the accuracy and performance of models in the various IoT and Industrial Internet of Things applications. The convergence of

technologies to provide scalable, interoperable IoT-enabled applications pushed the requirements for high bandwidth, low latency and robust and dependable connectivity to support the industry's demand for deeper integration and improved analytics to deliver sustainable competitive advantage products and services, enabling digital transformation with a focus on new business models.Safety and security are interlinked for the next wave of IoT technologies and applications and combined, prove a greater value for rapid adoption. The new IoT technologies are essential for facilitating sustainable development, reducing energy consumption and, by supporting the optimisation of products and processes, mitigating unnecessary carbon emissions – thereby reducing the environmental impact through real-time data collection, analysis, exchange, and processing.

adas and autonomous vehicle technology expo: International Conference on Computer Networks and Communication Technologies S. Smys, Robert Bestak, Joy Iong-Zong Chen, Ivan Kotuliak, 2018-09-17 The book features research papers presented at the International Conference on Computer Networks and Inventive Communication Technologies (ICCNCT 2018), offering significant contributions from researchers and practitioners in academia and industry. The topics covered include computer networks, network protocols and wireless networks, data communication technologies, and network security. Covering the main core and specialized issues in the areas of next-generation wireless network design, control, and management, as well as in the areas of protection, assurance, and trust in information security practices, these proceedings are a valuable resource, for researchers, instructors, students, scientists, engineers, managers, and industry practitioners.

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adas and autonomous vehicle technology expo: Automated Driving Systems 2.0. U. S. Department Of Transportation, 2018-07-25 A Vision for Safety replaces the Federal Automated Vehicle Policy released in 2016. This updated policy framework offers a path forward for the safe deployment of automated vehicles by: encouraging new entrants and ideas that deliver safer vehicles; making Department regulatory processes more nimble to help match the pace of private sector innovation; and supporting industry innovation and encouraging open communication with the public and with stakeholders.--Introductory message.

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are being tackled in the industry, and practitioners looking for cutting-edge academic findings. Although the book is not written as lecture notes, it can also be used in advanced master's-level courses on software and system engineering. The book also includes a number of case studies that can be used for student projects.

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Qingdao, Kunming and Hefei, China, 2007, 2006 and 2005, respectively. This year, the conference concentrated mainly on the theories and methodologies as well as the emerging applications of intelligent computing. Its aim was to unify the picture of contemporary intelligent computing techniques as an integral concept that highlights the trends in advanced computational intelligence and bridges theoretical research with applications. Therefore, the theme for this conference was “Emerging Intelligent Computing Technology and Applications”. Papers focusing on this theme were solicited, addressing theories, methodologies, and applications in science and technology.

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ADAS[illegible] - [illegible]
ADAS[illegible]Advanced Driving Assistance System[illegible] …

ADAS[illegible] …
ADAS HMI [illegible]. [illegible] 2.1[illegible] (Message) [illegible] …

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[illegible]adas[illegible] ADAS[illegible] ① [illegible]AEB[illegible] …

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Nov 14, 2016 · [illegible]ADAS([illegible] Advanced Driver Assistance System[illegible])[illegible] …

2021[illegible]-[illegible]ADAS[illegible]
Oct 2, 2022 · [illegible] + adas[illegible] [illegible] [illegible] [illegible]—— 1[illegible] …

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ADAS，驾驶辅助，智能驾驶，自动驾驶他们几个有什么区别，有 …
ADAS HMI 信息分级．根据自动驾驶辅助系统运行环境条件，基于人机交互的紧迫度，我们可以将智能驾驶辅助系统的人机交互信息分为如下四类，紧迫度从低到高。 2.1、消息(Message) 消 …

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汽车的adas（高级驾驶辅助系统）是一种利用先进的传感器和软件技术来帮助驾驶员提高驾驶安全性和舒适性的系统。 ADAS系统包含以下功能： ① 自动紧急制动系统（AEB）：在检测到前 …

不懂就问，**ADAS**辅助驾驶系统是一个什么东西？ - 知乎
不过adas也可以视作自动驾驶汽车的前提（一个过渡阶段），判断一个系统是adas系统还是自动驾驶系统，关键看该系统是否有决策部分。 ADAS主要是通过在汽车上使用各种传感器来收集车 …

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adas（高级驾驶员辅助系统）如今已成为任何新车（尤其是汽车）不可分割的一部分。根据成本和型号，一辆汽车可以配备一种或多种 ADAS 功能，这些功能可以在道路上协助驾驶员并帮助 …

*ADAS*这个词最早是谁提出来的呢，*ADAS*和*ADS*有啥区别?
不过adas也可以视作自动驾驶汽车的前提（一个过度阶段），判断一个系统是adas系统还是自动驾驶系统，关键看该系统是否有决策部分。 ADAS主要是通过在汽车上使用各种传感器来收集车 …

中国市场（后装市场）上个人能够买到的*ADAS(*高级驾驶员辅助系 …
Nov 14, 2016 · 题主几年前提出这个问题的时候，市场上个人能买到的ADAS(全称 Advanced Driver Assistance System，即高级驾驶辅助系统)品牌屈指可数，而如今，几年过去，现在能 …

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