

I'm not robot!

Full PDF PackageDownload Full PDF PackageThis PaperA short summary of this paper36 Full PDFs related to this paperDownloadPDF Pack Jessie Byrne 0182356 L. Keliher COMP 1631 January 27th 2011 Self-Driving CarsDefine self-driving cars? • A self-driving car is a vehicle that can drive itself from one point to another without the aid of a driver • In other words, it uses an autopilot system to drive itself History of Self-Driving Cars Both of the vehicles used television cameras to see, but while the Cart was better at following white lines, the Shakey was better at avoiding prismatic objects. Neither car was ideal. Simple self driving cars have been around since before the 1980’s, starting with vehicles like the Stanford cart in 1961 and the Shakey in 1979. Both machines were powered by large mainframes doing about 250 000 calculations per second! learned/cart\_files/image002.jpgA History Continued- 1980’s The robotic cars of the 1980’s were introduced to the world by a man who was later compared to the Wright brothers. Ernst Dickmanns built cars at the University of Bundeswiler Munich (UniBW) that had capabilities far beyond those of their predecessors. These vehicles used technology such as saccadic vision and parallel computers. The van that was developed reached a top speed of 60 miles an hour using vision guidance. These automobiles were the world’s first “real” robot cars. juergen/robotcars.html1994- A Breakthrough In 1994, the VAMr robot (a machine that relied on vision technology) was developed and used in a Mercedes Benz SEL at UniBW. The car was able to drive through Paris roadways, tracking 12 other vehicles at a time. It drove over 1000km in multi-lane traffic, at times reaching speeds of 130 km/h and automatically passing cars in the slower lanes. A year later, the car was able to drive 1678 km on public autobahns all the way from Munich to Denmark and back, at times reaching 180 km/h and passing slower cars- all without any human intervention.DARPA DARPA (Defense Advanced Research Projects Agency) is an agency in the US the develops new technology that is usually employed by the military. DARPA Grand Challenge In 2005, DARPA began holding their now infamous Grand Challenge. The company invited teams to design an autonomous vehicle that was driven by a GPS system. The contestants would then race their vehicles across the desert, using pre-programmed checkpoints to guide their cars. The desert course was 211 kilometres long and cars were only allowed to go at a 40 km/h maximum speed.FINISH 5 teams competed in the Grand Challenge and 4 of them completed the course under the 10 hour time limit. Stanford’s Volkswagen was the winner and the team was awarded 2 million dollars. Carnegie Mellon University’s two Hummers placed second and third. The Grey Team and OshKosh Truck came fourth and fifth respectively. 1 5 3 2 juergen/robotcars.html 42006- Lexus Lexus started manufacturing and selling cars that automatically parallel parked themselves in 2006. Using sensors and an Advanced Parking System Guidance mode, the car is able to sense the open space between two cars as it passes the parking spot. The car is able to steer itself into the space while the driver controls the acceleration and braking systems sensor2007- DARPA Urban Challenge This event was similar to that of the Grand Challenge, except this time the teams were required to build cars that were capable of autonomously navigating through city traffic, performing maneuvers such as merging, passing, parking, and driving through intersections. The event was held in 2007. 11 teams competed including MIT, Stanford, Cornell, Virginia Tech and Carnegie Mellon. In the end, it was Carnegie Mellon’s “Boss” car that won, earning the team a 2 million dollar prize. Stanford followed in second place, with their Volkswagen “Junior” car, earning a prize of 1 million dollars Audi Late last year, the Audi TTS became the world’s first autonomous vehicle to conquer the Pikes Peak course in Colorado; one of the most challenging driving courses in the world. The cars system is comprised of algorithms and the Java Real-Time System (a system that is able to respond to unpredictable occurrences) There are two computers located in the trunk, one runs the safety algorithms, while the other runs the vehicle dynamics algorithms. The calculus made by these computers is then inputted into the car’s GPS system. Google 2010 also marked the year that Google announced it had been developing self driving cars as well. The cars have logged over 140 000 miles, driving around San Francisco, Lake Tahoe and Santa Monica. would Google make a car? Google has to yet to reveal what they plan to do with their cars, but whatever it is, it will most likely be good business. The cars rely on data from Google, which is able to process mass amounts of information very quickly. The cars use video cameras, lasers, sensors, and detailed maps in order to drive. Watch The Google Car In Action! Click Here!What does the future hold? So far, self driving cars do not seem to be too far out of our reach as consumers. Volvo has theorized a system known as a “road train.” There is a “lead vehicle” that guides the rest of the autonomous cars to wherever they want to go, while the drivers are free to do as they please until they reach their highway exit. No fully autonomous system exists today, however with the advent of driver assistance technologies and experimental self-driving cars, who is to say that we are not far from a “supposedly futuristic concept... Bibliography DARPA “DARPA Urban Challenge” Accessed January 25th 2011 DARPA “DARPA Grand Challenge” Accessed January 25th 2011 Diaz, Jesus “Autonomous Audi STT Scales Pikes Peak” GizMoDo Accessed January 25th 2011 Gage, Deborah “Google’s Self-Driving Car” SmartPlanet, Accessed January 25th 2011 Lam, Brian “Lexus Self Parking Car Video and Review” GizMoDo, Accessed January 25th 2011 Patrascu, Daniel “Volvo Self-Driving Cars Ready for Testing” AutoEvolution, Accessed January 24th 2011 Schmidhuber, J. “History of Self Driving Cars” Robot Cars, Accessed January 24th 2011 juergen/robotcars.html 93% of Fortune 1000 companies use our PowerPoint Products Standing Ovation AwardWinner. Best PowerPointTemplate Collection 200,000+ satisfied customers worldwide! Crystal templates image source: Shutterstock 1 DRIVERLESS CAR 2 When life becomes so hectic that... 3 When such hectic turns out as tragedies 4 From Automobiles to Auto Mobility!The autonomous vehicle, driverless or self-driving car will be one of the greatest technological developments of the next decade (if not all time). It will profoundly change life on earth. For the past century our car-centric culture has shaped infrastructure and ideals, landscape and lifestyle, ethics and enterprise. We rely on the mobility that cars provide us more than ever, but the car’s purpose and meaning changes as the driver fades out. When the car builds itself, environments and economies are reshaped. This report looks at the players, technologies and trends in the autonomous vehicle space and paints a picture of probable futures for citizens, businesses and marketers. Buckle up. Bumpy roads ahead. 5 Local Governments Are Committing to Driverless Infrastructure...“An amendment condoned by The United Nations Convention on road traffic will soon allow testing of autonomous vehicles in the European Union, Mexico, Chile and Russia.” “Michigan is building a driverless town for testing autonomous cars.” 6 INTRODUCTION Driver error is the most common cause of traffic accidents India contributes 6 % of the world’s road accident deaths Cell phones in-car ,entertainment systems, more traffic and more complicated road systems making it more frequent By this improving technology our car will do the concentrating for us. 7 What is a Driverless Car ?It is a vehicle that can drive itself from one point to another without assistance from a driver; in other words, with an autopilot system 8 How will the car detect the traffic lights ?A sensor “actinometer” is used to detect the intensity of radiation Light of different colors will radiate different -2-intensity of radiation Which will be detected by the sensor If the detected intensity is of red color or yellow color then controller will send a command to stop the vehicle The command will be followed by robotto convert the computer command into mechanical input) 9 Technologies Making A System Fully AutonomousAnti-lock brakes(ABS) Electronic stability control (ESC) Cruise control Lane Departure Warning System Self Parking Automated Guided Vehicle Systems 10 Anti-lock Brakes System (ABS)An ABS generally offers improved vehicle control and decreases stopping distances on dry and slippery surfaces for many drivers. 11 Electronic Stability Control (ESC)A computerized technology improves vehicle’s stability by detecting and minimizing skids. Automatically applies the brakes. Helps to minimize a loss of control. ESC compares the driver’s intended direction to the vehicle’s actual direction 12 Cruise Control Cruise control keeps the car at a constant speed by taking over the throttle of the car It also maintain a set distance between it and the car in front of it 13 Lane Departure Warning SystemA mechanism designed to warn a driver when the vehicle begins to move out of its lane Designed to minimize accidents by addressing the main causes of collisions: driving error, distraction and drowsiness. 14 Self-parking Cars System uses sensors all around the car to guide it into a parallel parking space Lexus LS 460 L with Advance Parking Guidance System The driver has to find a parking space, Position the car next to it, and use the in-cabin navigation screen to tell the car where it should go. The parking space needs to be 6 feet (1.8 meters) longer than the car 15 Automated Guided Vehicle SystemsUses FROG (Free Ranging On Grid) technology FROG vehicles are equipped with a computer that contains a map of the area 16 Control of Vehicle As automotive technology matures, more and more functions of the underlying engine, gearbox etc. are no longer directly controlled by the driver by mechanical means. It is controlled via a computer, which receives instructions from the driver as inputs and delivers the desired effect by means of electronic throttle control. Therefore, the technology for a computer to control all aspects of a vehicle is well understood. 17 Will Your Life Be Different? 18 Autonomous Cars Will Give You Back > 4 Years Of Your Life.Average time a person will spend driving in their lifetime 9days /year Average time equivalent Americans spend 51minutes Average length of commute to work in the US 15 days / year Average time equivalent Moms spend driving kids around 19 You Will Spend More Time Doing the Things You Love, Not DrivingWorking Have you ever wanted to bill hours for your commute? This dream could be reality when your car becomes a mobile office Playing Games Stuck in traffic? Fire up your car’s gaming center to play chess or Words With Friends against your car Reading Imagine a smart car that recommends articles or stories based on the expected travel time. Watching Movies Cars of the future will undoubtedly be entertainment hubs, featuring built in tablets and TVs Texting / Talking with Friends Technology, both new and current, will adapt to social travels. Sleeping Some commuters might consider planning their lives to get a full 8 hours of sleep during their commutes Other These respondents listed activities such as ‘watch the road’ or ‘enjoy the scenery.’ 20 You Will Be More Productive\$422Billion Boost in annual productivity from driverless cars The autonomous vehicle will increase productivity, especially for people who work from the road (e.g., real estate, sales). Driverless autos will feature high-speed bandwidth and 2-way live streaming. The boost in productivity will increase GDP and enable many businesses to adopt 4- day work weeks. 21 You Will Live Longer and Healthier1.3 Million People die in road crashes annually 1,060 People injured daily in crashes from distracted driving Popular Science Driverless cars are 10x safer than human driven cars Automobile accidents are the leading cause of death amongst young people (ages 15-29) and the #2 cause of death worldwide. In addition to reducing deaths from crashes, driverless cars will reduce cancer as they decrease anxiety and driving stress. Happiness and well-being correlate to the length of time spent commuting in traffic. 22 Saving Of Parking SpaceIndependently seek parking Demand for adjacent parking decrease Conversion to other land uses 23 Older adults injured in autoYou Will be Independent Longer Transportation will no longer be a hindrance for The disabled The elderly Even the kids 5000 Older adults injured in auto accidents daily Autonomous cars will offer the elderly independence from caregivers. They will give the aging population a better quality of life, as well as help them to participate in the workforce longer. 24 Business Implications of Autonomous Cars 25 10 Ways Marketing Will be Totally Transformed1. Out-of-home advertising and billboards will respond and customize to Passsby 2. Rush-hour/trive-time radio will adapt or die 3. Entertainment (and ads) will need to be road-ready 4. Content will be designed for Virtual Reality car windows 5. New retail destinations will pop up in unusual, out of the way locations 26 6. Retail on wheels will explode7. Products will be introduced just for in-car use (cooking, entertaining, learning, working, gaming, etc.) 8. Businesses will be launched for the hiding and control of geo location data 9. Social networks will evolve into networks of social roads 10. Brands will sponsor routes and “curated road experiences” 27 10 Jobs of the Future Created by Autonomous Cars1. Ethical Programmer — Will the car be programmed to protect the passenger, civilians, or the greatest good? 2. Parking Lot Ranger — If parking lots are repurposed as park spaces these new public spaces will need attending and policing. 3. Liability Data Investigator — Who is at fault in an autonomous accident? The data will know and special investigators will perform the data forensics. 4. Pavé & Paint Pro — Driverless cars rely on high quality roads and clear road markings, so road maintenance will be an important, highly-paid job. 5. 3D Printer Auto Stylist — People will need assistance with CAD, designing their custom cars and decorating their interiors. 28 6. Convoy Party Planner — Specialist planners will be sought to assist with auto entertaining and long-haul group travel. 7. Anti-Hacking Mechanic — A new field of mechanics will emerge to safeguard data and privacy and thwart auto hacking, which could be deadly. 8. Personal Vehicle Trainer — As obesity rises, the auto becomes a place for workouts. Trainers will travel with clients to exercise on-the-go. 9. Sensor Technician — All the auto’s sensors will need regular tune-ups and calibrations handled by sensor specialists. 10. OS Therapist — When the auto is intelligent, its OS may suffer emotionally, requiring therapy from an AI auto shrink. 29 THANKS Write us at:

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