

## NP 07.06 **MISUSE** · Al-driven autonomous vehicle hacking 12 Misleading AI in ride-hailing pricing **DILEMMAS** Al biases in traffic management systems Unauthorized surveillance using drones Should Al fully control autonomous vehicles? · Manipulation in Al-based logistics How to balance Al efficiency and job impacts? 13 Ensuring fair Al access in public transportation? ORG. REQUIREMENTS 14 STEP BY STEP AI · Identify Al use cases in transport Invest in AI technology and infrastructure Define healthcare Al objectives Train staff on Al tools and ethics Select appropriate AI technologies Implement Al solutions in phases Ensure data quality and accessibility Regularly assess and update Al systems Train medical staff on Al tools 15 Monitor, evaluate, and iterate BEST PRACTICES 16 AI MODELS Prioritize safety in Al applications Focus on customer-centric Al solutions Machine learning for traffic prediction Collaborate with Al and transport experts Neural networks in autonomous driving Gradual implementation with constant feedback Al algorithms for dynamic routing Uphold ethical standards in Al use Reinforcement learning in drone navigation Predictive analytics in fleet management DIGITAL TWINS 18 GLOBAL LEADERS · Digital twins of vehicles for testing Virtual models of traffic systems United States (Autonomous vehicle technology) Al-based airport operation simulations China (High-speed rail, electric vehicles) Digital replicas of logistics networks Germany (Automotive innovation) Virtual shipping routes and port models Singapore (Smart public transit) 19 Japan (Advanced robotics in transportation) FUTURE JOBS 20 THE FUTURE OF AL • Al transportation system analysts Autonomous vehicle safety specialists Full autonomy in vehicles Al-driven fleet management coordinators Al-integrated public transit systems Urban mobility planners Al in reducing transportation emissions Al ethics officers in transportation Global Al-driven logistics networks 21 Enhanced safety features in transport RECOMMENDED READING 22 TED TALKS "Autonomy" by Lawrence D. Burns "Traffic: Why We Drive the Way We Do" by Tom Vanderbilt "How autonomous cars will reshape cities" by Wanis Kabbaj "The Box" - Marc Levinson "The future of flying robots" by Vijay Kumar "Door to Door" - Edward Humes "The ethical dilemma of self-driving cars" by Patrick Lin "Moving Millions" - Jeff Silver "How AI can save our humanity" by Kai-Fu Lee 23 "Teaching computers to understand pictures" by Fei-Fei Li ONLINE RESOURCES 24 NEXTSTEPS Transport Topics: Industry news and analysis. APTA: Public transit information. Engage with Al technology. International Transport Forum: Global transport research. Identify opportunities for Al application. INRIX: Traffic data and insights. Invest in Al education and training. Smart Cities Dive: Urban transport innovations. Please contact us at hello@nextpaper.me for further exploration or inspiration through a talk, workshop or case study. We'd love to help! Applied AI TRANSPOR