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Dynamic Vision for Perception and Control of Motion



 Springer

Dynamic Vision For Perception And Control Of Motion

Ichiro Masaki



Dynamic Vision For Perception And Control Of Motion:

Dynamic Vision for Perception and Control of Motion Ernst Dieter Dickmanns, 2007-06-02 The application of machine vision to autonomous vehicles is an increasingly important area of research with exciting applications in industry defense and transportation likely in coming decades Dynamic Vision for Perception and Control of Motion has been written by the world's leading expert on autonomous road following vehicles and brings together twenty years of innovation in the field by Professor Dickmanns and his colleagues at the German Armed Forces university in Munich The book uniquely details an approach to real time machine vision for the understanding of dynamic scenes viewed from a moving platform that begins with spatio-temporal representations of motion for hypothesized objects whose parameters are adjusted by well known prediction error feedback and recursive estimation techniques A coherent and up to date coverage of the subject matter is presented with the machine vision and control aspects detailed along with reports on the mission performance the first vehicles using these innovative techniques built at Munich Pointers to the future development and likely applications of this hugely important field of research are presented Dynamic Vision for Perception and Control of Motion will be a key reference for technologists working in autonomous vehicles and mobile robotics in general who wish to access the leading research in this field as well as researchers and students working in machine vision and dynamic control interested in one of the most interesting and promising applications of these techniques Handbook of Computer Vision and Applications: Systems and applications Bernd Jähne, Horst Haussecker, Peter Geissler, 1999 CD ROM files contain complete text of all three print vols as well as hyperlinks to figures tables etc and between the index and the text Also included are hyperlinks to movies interactive 3D models demonstration software and other materials not contained in the print version *Computer Vision Systems : ... International Conference, ICVS ... , Proceedings ,2001* *Enhanced and Synthetic Vision ,2000* *Proceedings of the ... IEEE Intelligent Vehicles Symposium ,2000* **Unmanned Ground Vehicle Technology ,2001** **Intelligent Robots and Computer Vision ,2001** International Journal of Vehicle Autonomous Systems ,2002 Vision-based Vehicle Guidance Ichiro Masaki, 2012-12-06 There is a growing social interest in developing vision based vehicle guidance systems for improving traffic safety and efficiency and the environment Examples of vision based vehicle guidance systems include collision warning systems steering control systems for tracking painted lane marks and speed control systems for preventing rear end collisions Like other guidance systems for aircraft and trains these systems are expected to increase traffic safety significantly For example safety improvements of aircraft landing processes after the introduction of automatic guidance systems have been reported to be 100 times better than prior to installment Although the safety of human lives is beyond price the cost for automatic guidance could be compensated by decreased insurance costs It is becoming more important to increase traffic safety by decreasing the human driver's load in our society especially with an increasing population of senior people who continue to drive The second potential social benefit is the improvement of traffic efficiency by decreasing the

spacing between vehicles without sacrificing safety It is reported for example that four times the efficiency is expected if the spacing between cars is controlled automatically at 90 cm with a speed of 100 km/h compared to today's typical manual driving Although there are a lot of technical psychological and social issues to be solved before realizing the high density high speed traffic systems described here highly efficient highways are becoming more important because of increasing traffic congestion

From Automated to Autonomous Driving Fabian Kröger, 2024-04-01 This book presents the most important milestones of the research on automated and autonomous driving in the United States Japan and Europe throughout five decades 1950 2000 Drawing on sources from the automotive industry electrical engineering the robotics and AI domain and military institutions it retraces the transition from the guidance cable approach to vehicle based sensor and vision systems Giving a detailed overview of the technical concepts artefacts research vehicles and robots the book presents the transnational engineering efforts that started long before Silicon Valley entered the field In addition the book also uniquely details the role of the military in the domain of vehicle automation This all ensures the book is of great interest to historians of technology practitioners in engineering disciplines scholars working in mobility studies journalists and political decision makers

Robot Vision Ales Ude, 2010-03-01 The purpose of robot vision is to enable robots to perceive the external world in order to perform a large range of tasks such as navigation visual servoing for object tracking and manipulation object recognition and categorization surveillance and higher level decision making Among different perceptual modalities vision is arguably the most important one It is therefore an essential building block of a cognitive robot This book presents a snapshot of the wide variety of work in robot vision that is currently going on in different parts of the world

Proceedings 1990 IEEE International Conference on Robotics and Automation ,1990 **Proceedings** ,1990
Intelligent Motion Control ,1990 **9th International Conference on Pattern Recognition** ,1988 Proceedings of the ... IEEE International Conference On Systems, Man, and Cybernetics ,1987 Robust Artificial Intelligence for Neurorobotics Subramanian Ramamoorthy, Joe Hays, Christian Tetzlaff, 2022-01-31 **Aerospace Medicine and Biology** ,1981 A selection of annotated references to unclassified reports and journal articles that were introduced into the NASA scientific and technical information system and announced in Scientific and technical aerospace reports STAR and International aerospace abstracts IAA **SPIE ... Publications Index** ,1992 Proceedings of the ... International Joint Conference on Artificial Intelligence ,1997

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