



Speedbumps And Potholes

Lauren Gardner



Speedbumps And Potholes:

Detection of Potholes and Speedbumps by Monitoring Front Traffic Karthikeyan Nagarajan,Amit Jindal,2019 This article proposes a novel method for detecting potholes and speed bumps by monitoring the front traffic when the road is not visibly seen The existing camera based systems in the car directly scan the road surface and estimate the road profile The main disadvantage of the current technology is that it is not possible to detect the road profile when the road is not clearly visible This can happen in situations when roads are waterlogged or have occluded bumps and in low light conditions In this article the proposed method for detecting potholes or speed bumps by monitoring the vertical movement of the front traffic can enhance the existing algorithm by overcoming the abovementioned disadvantage However the method works only when there is traffic ahead of the system vehicle The method makes level 3 and above autonomous driving more robust in terms of comfort and safety by estimating the road profile in the abovementioned road conditions The method uses an object localization algorithm and optical flow to determine the motion vectors of vehicles The histogram of motion vectors in the vertical direction is calculated and its weighted average is obtained for each frame As a feature extraction process fast Fourier transform FFT is applied to the fixed size queue buffer containing weighted average values to obtain the frequency spectrum which is used as a feature set for classification After feature selection the support vector machine SVM is used to classify whether a pothole road bump has been detected Apart from hardware video stabilization the same classification procedure is applied to static objects in the frame and camera egomotion is detected This is done to avoid false positives due to camera movement when the system vehicle is moving over a pothole or a speed bump The developed algorithm is validated with the manually collected dataset and the results and the analysis are presented here Abstract page 1

Sensors and Instrumentation, Aircraft/Aerospace, Energy Harvesting & Dynamic Environments Testing, Volume 7 Chad Walber,Matthew Stefanski,Steve Seidlitz,2025-08-07 Sensors and Instrumentation Aircraft Aerospace and Energy Harvesting Volume 7 Proceedings of the 39th IMAC A Conference and Exposition on Structural Dynamics 2021 the seventh volume of nine from the Conference brings together contributions to this important area of research and engineering The collection presents early findings and case studies on fundamental and applied aspects of Shock Vibration Aircraft Aerospace Energy Harvesting Dynamic Environments Testing including papers on Alternative Sensing Acquisition Active Controls Instrumentation Aircraft Aerospace Aerospace Testing Techniques Energy Harvesting **Applications on Ultrasonic Wave** Jaesun Lee,2021-09-02 This book presents applications on the ultrasonic wave for material characterization and nondestructive evaluations It could be of interest to the researchers and students who are studying on the fields of ultrasonic waves *Internet of Things and Artificial Intelligence in Transportation Revolution* Miltiadis D. Lytras,Kwok Tai Chui,Ryan Wen Liu,2021-04-14 The advent of Internet of Things offers a scalable and seamless connection of physical objects including human beings and devices This along with artificial intelligence has moved transportation towards

becoming intelligent transportation This book is a collection of eleven articles that have served as examples of the success of internet of things and artificial intelligence deployment in transportation research Topics include collision avoidance for surface ships indoor localization vehicle authentication traffic signal control path planning of unmanned ships driver drowsiness and stress detection vehicle density estimation maritime vessel flow forecast and vehicle license plate recognition High performance computing services have become more affordable in recent years which triggered the adoption of deep learning based approaches to increase the performance standards of artificial intelligence models Nevertheless it has been pointed out by various researchers that traditional shallow learning based approaches usually have an advantage in applications with small datasets The book can provide information to government officials researchers and practitioners In each article the authors have summarized the limitations of existing works and offered valuable information on future research directions

The North American Idea Robert A. Pastor, 2011-07-21 In its first seven years the North American Free Trade Agreement NAFTA tripled trade and quintupled foreign investment among the U S Mexico and Canada increasing its share of the world economy In 2001 however North America peaked Since then trade has slowed among the three manufacturing has shrunk and illegal migration and drug related violence have soared At the same time Europe caught up and China leaped ahead In The North American Idea eminent scholar and policymaker Robert A Pastor explains that NAFTA's mandate was too limited to address the new North American agenda Instead of offering bold initiatives like a customs union to expand trade leaders of the three nations thought small Interest groups stalemated the small ideas while inhibiting the bolder proposals and the governments accomplished almost nothing To overcome this resistance and reinvigorate the continent the leaders need to start with an idea based on a principle of interdependence Pastor shows how this idea once woven into the national consciousness of the three countries could mobilize public support for continental solutions to problems like infrastructure and immigration that have confounded each nation working on its own Providing essential historical context and challenging readers to view the continent in a new way The North American Idea combines an expansive vision with a detailed blueprint for a more integrated dynamic and equitable North America

The Speed of Change Jan-Bart Gewald, Sabine Luning, Klaas van Walraven, 2009-07-31 In the early 1900s the motor vehicle car bus lorry or motor cycle was introduced in sub Saharan Africa Initially the plaything and symbol of colonial domination the motor vehicle transformed the economic and social life of the continent Indeed the motor vehicle is arguably the single most important factor for change in Africa in the twentieth century A factor for change that thus far has been neglected in research and literature Yet its impact extends across the totality of human existence from ecological devastation to economic advancement from cultural transformation to political change through to a myriad of other themes This edited volume of eleven contributions by historians anthropologists and social and political scientists explores aspects of the social history and anthropology of the motor vehicle in Africa

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advice for overlanding Mexico & Central America ,2012 Your complete guide for overlanding in Mexico and Central America This book provides detailed and up to date information by country It also includes 11 chapters of information for planning and preparing your trip and 9 chapters on what to expect while driving through Mexico and Central America Completed by the authors of LifeRemotely com this is the most comprehensive guide for driving the Pan American yet

Proceedings of the 2025 12th International Conference on Geological and Civil Engineering Guangwei Huang,2025-07-02 This book presents selected papers from 2025 12th International Conference on Geological and Civil Engineering held in Sapporo Japan March 7 9 2025 The event aims to provide opportunities for the delegates to exchange new ideas and application experiences face to face to establish business or research relations and to find global partners for future collaboration The recent developments in the area of geological and civil engineering are briefly discussed The topics covered in this book include seismic response and liquefaction modeling pavement materials and roadway stabilization advanced design optimization and evaluation for concrete and structural systems intelligent sensing and data driven solutions for civil infrastructure The book will be useful for researchers and scholars who are working in the field of geological and civil engineering

The Challenge of Bologna Paul L. Gaston,2023-08-11 In 1999 a declaration formalizing the European process was signed at and informally named for Europe s oldest university Bologna The Bologna Process has transformed higher education in Europe This book is essential reading for anyone concerned about the ability of America s higher education system to position the country for competitiveness in a global economy about its failure to broaden access and participation or to respond to calls for accountability and specifically about whether it is ready to address the redoubtable challenge that Bologna Process represents on all these issues In this book Paul Gaston assesses the Process accomplishments weighing its strengths and weaknesses and evaluates which features pose a threat which we can learn from and which may be inappropriate for our system of higher education Bologna s achievements in making higher education more accessible in rationalizing and making consistent the evaluation of credits and the definition and measurement of learning outcomes for all disciplines all constitute a major wake up call for American higher education If we consider Europeans increased participation in higher education their increased graduation rates and the fact that Europe is retaining more of its students and attracting more international students American higher education may be losing its competitive advantage For all these reasons it is vital that educators and policy makers understand Bologna and its implications for American higher education It represents a formidable challenge on a matter of national priority This book provides that understanding by offering a realistic and balanced account of Bologna s achievements and suggesting how US higher education can constructively and effectively respond

Proceedings of Tenth International Congress on Information and Communication Technology Xin-She Yang,R. Simon Sherratt,Nilanjan Dey,Amit Joshi,2025-09-26 This book gathers selected high quality research papers presented at the Tenth International Congress on Information and Communication

Technology ICICT 2025 held in London on February 18 21 2025 It discusses emerging topics pertaining to information and communication technology ICT for managerial applications e governance e agriculture e education and computing technologies the Internet of Things IoT and e mining Written by respected experts and researchers working on ICT the book offers an asset for young researchers involved in advanced studies The work is presented in ten volumes

Every Single Day Donna Huisjen, 2010-05-11 Huisjen has created a fast paced refreshing two minute time out in her daily readings that combine a brief story scriptural reflection a prayer and an inspirational thought to help bring godly encouragement to the maddening pace of any day Imagine taking a refreshing two minute time out that will bring godly encouragement to the maddening pace of any day That s just what Donna Huisjen has created with her fast paced daily readings that combine a brief story a scriptural reflection a prayer and an inspirational thought to take you through the day As a single adoptive mom who raised three special needs daughters her struggles and joys will strike a familiar chord with any mother Her thoughts on topics such as character development compassion appreciating each child s uniqueness and savoring simple pleasures are sure to brighten every single day with positive perspective builders

Pattern Recognition. ICPR 2024 International Workshops and Challenges Shivakumara Palaiahnakote, Stephanie Schuckers, Jean-Marc Ogier, Prabir Bhattacharya, Umapada Pal, Saumik Bhattacharya, 2025-04-24 This 6 volume set LNCS 15614 15619 constitutes the proceedings of the ICPR 2024 International Workshops and Challenges held under the umbrella of the 27th International Conference on Pattern Recognition ICPR 2024 which took place in Kolkata India during December 1 5 2024 The 183 full papers presented in these 6 volumes were carefully reviewed and selected from numerous submissions The 21 ICPR 2024 workshops addressed problems in pattern recognition artificial intelligence computer vision and image and sound analysis and the contributions reflect the most recent applications related to healthcare biometrics ethics multimodality cultural heritage imagery affective computing and de escalation

Traffic Engineering Handbook ITE (Institute of Transportation Engineers), Brian Wolshon, Anurag Pande, 2016-01-26 Get a complete look into modern traffic engineering solutions Traffic Engineering Handbook Seventh Edition is a newly revised text that builds upon the reputation as the go to source of essential traffic engineering solutions that this book has maintained for the past 70 years The updated content reflects changes in key industry standards and shines a spotlight on the needs of all users the design of context sensitive roadways and the development of more sustainable transportation solutions Additionally this resource features a new organizational structure that promotes a more functionally driven multimodal approach to planning designing and implementing transportation solutions A branch of civil engineering traffic engineering concerns the safe and efficient movement of people and goods along roadways Traffic flow road geometry sidewalks crosswalks cycle facilities shared lane markings traffic signs traffic lights and more all of these elements must be considered when designing public and private sector transportation solutions Explore the fundamental concepts of traffic engineering as they relate to operation design and management Access updated

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International Conference on Innovative Computing and Communications Deepak Gupta,Ashish Khanna,Siddhartha Bhattacharyya,Aboul Ella Hassanien,Sameer Anand,Ajay Jaiswal,2022-09-22 This book includes high quality research papers presented at the Fifth International Conference on Innovative Computing and Communication ICICC 2022 which is held at the Shaheed Sukhdev College of Business Studies University of Delhi Delhi India on February 19 20 2022 Introducing the innovative works of scientists professors research scholars students and industrial experts in the field of computing and communication the book promotes the transformation of fundamental research into institutional and industrialized research and the conversion of applied exploration into real time applications

Proceedings of International Conference on Recent Trends in Machine Learning, IoT, Smart Cities and Applications Vinit Kumar Gunjan,Jacek M. Zurada,2020-10-17 This book gathers selected research papers presented at the International Conference on Recent Trends in Machine Learning IOT Smart Cities Applications ICMISC 2020 held on 29 30 March 2020 at CMR Institute of Technology Hyderabad Telangana India Discussing current trends in machine learning Internet of things and smart cities applications with a focus on multi disciplinary research in the area of artificial intelligence and cyber physical systems this book is a valuable resource for scientists research scholars and PG students wanting formulate their research ideas and find the future directions in these areas Further it serves as a reference work anyone wishing to understand the latest technologies used by practicing engineers around the globe

IoT Based Control Networks and Intelligent Systems P. P. Joby,Marcelo S. Alencar,Przemyslaw Falkowski-Gilski,2023-11-27 This book gathers selected papers presented at International Conference on IoT Based Control Networks and Intelligent Systems ICICNIS 2023 organized by School of Computer Science and Engineering REVA University Bengaluru India during June 21 22 2023 The book covers state of the art research insights on Internet of things IoT paradigm to access manage and control the objects things people working under various information systems and deployed under wide range of applications like smart cities healthcare industries and smart homes

5G and Beyond Wireless Communications Abhijit Bhowmick,Yogesh Kumar Choukiker,Indrasen Singh,Arumugam Nallanathan,2024-09-03 This book provides a thorough introduction of 5G and B5G wireless networks as well as cutting edge technologies that aid in network design and development This book also covers machine learning techniques for advanced communications 5G and Beyond Wireless Communications Fundamentals

Applications and Challenges discusses the newest technologies for 5G and future networks including CR networks D2D networks UAV assisted communications RIS assisted communications and ML for communication networks Additionally it discusses using antenna systems for advanced communications networks It also explores various security issues and their solutions as well as power and interference management and machine learning for optimization of network parameters The book also examines the design of 5G antennas from a materials perspective and a thorough analysis of the materials utilized to create innovative antennas for advanced communication network is discussed The book concludes by discussing the advancement of ML based communication networks and their future opportunities and challenges This book will be helpful for researchers and master students who want to focus their research work in the area of next generation advanced wireless communications

RITA 2018 Anwar P. P. Abdul Majeed, Jessnor Arif Mat-Jizat, Mohd Hasnun Arif Hassan, Zahari Taha, Han Lim Choi, Junmo Kim, 2019-06-15 This book gathers the Proceedings of the 6th International Conference on Robot Intelligence Technology and Applications RITA 2018 Reflecting the conference's main theme Robotics and Machine Intelligence Building Blocks for Industry 4.0 it features relevant and current research investigations into various aspects of these building blocks The areas covered include Instrumentation and Control Automation Autonomous Systems Biomechatronics and Rehabilitation Engineering Intelligent Systems Machine Learning Robotics Sensors and Actuators and Machine Vision as well as Signal and Image Processing A valuable asset the book offers researchers and practitioners a timely overview of the latest advances in robot intelligence technology and its applications

Recent Trends in Wave Mechanics and Vibrations Zuzana Dimitrovová, Paritosh Biswas, Rodrigo Gonçalves, Tiago Silva, 2022-10-06 This volume gathers select proceedings of the 10th International Conference on Wave Mechanics and Vibrations WMVC held in Lisbon Portugal on July 4-6 2022 It covers recent developments and cutting edge methods in wave mechanics and vibrations applied to a wide range of engineering problems It presents analytical and computational studies in structural mechanics seismology and earthquake engineering mechanical engineering aeronautics robotics and nuclear engineering among others The volume will be of interest for students researchers and professionals interested in the wide ranging applications of wave mechanics and vibrations

Proceedings of the 12th International Conference on Soft Computing for Problem Solving Millie Pant, Kusum Deep, Atulya Nagar, 2024-07-22 This book provides an insight into 12th International Conference on Soft Computing for Problem Solving SocProS 2023 organized by The Department of Applied Mathematics and Scientific Computing Saharanpur Campus of Indian Institute of Technology Roorkee India in conjunction with Continuing Education Center during 11-13 August 2023 This book presents the latest achievements and innovations in the interdisciplinary areas of soft computing machine learning and data science It covers original research papers in the areas of algorithms artificial neural network deep learning statistical methods genetic algorithm and particle swarm optimization and applications data mining and clustering computer vision medical and health care finance data envelopment analysis business and forecasting applications This book

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