

PEDESTRIAN DYNAMICS

**Mathematical Theory and
Evacuation Control**



Pushkin Kachroo



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Pedestrian Dynamics Mathematical Theory And Evacuation Control

Bonnie A. Osif



Pedestrian Dynamics Mathematical Theory And Evacuation Control:

Pedestrian Dynamics Pushkin Kachroo, 2018-10-03 Homeland security transportation and city planning depend upon well designed evacuation routes You can't wait until the day of to realize your plan won't work Designing successful evacuation plans requires an in depth understanding of models and control designs for the problems of traffic flow construction and road closures and the intangible human factors *Pedestrian Dynamics Mathematical Theory and Evacuation Control* clearly delineates the derivation of mathematical models for pedestrian dynamics and how to use them to design feedback controls for evacuations The book includes Mathematical models derived from basic principles Mathematical analysis of the model Details of past work MATLAB code 65 figures and 400 equations Unlike most works on traffic flow this book examines the development of optimal methods to effectively control and improve pedestrian traffic flow The work of a leading expert it examines the differential equations applied to conservation laws encountered in the study of pedestrian dynamics and evacuation control problem The author presents new pedestrian traffic models for multi directional flow in two dimensions He considers a range of control models in various simulations including relaxed models and those concerned with direction and magnitude velocity commands He also addresses questions of time cost and scalability The book clearly demonstrates what the future challenges are and provides the tools to meet them

Fractional Order Crowd Dynamics Kecai

Cao, YangQuan Chen, 2018-06-11 This book illustrates the application of fractional calculus in crowd dynamics via modeling and control groups of pedestrians Decision making processes conservation laws of mass momentum and micro macro models are employed to describe system dynamics while cooperative movements in micro scale and fractional diffusion in macro scale are studied to control the group of pedestrians Obtained work is included in the Intelligent Evacuation Systems that is used for modeling and to control crowds of pedestrians With practical issues considered this book is of interests to mathematicians physicists and engineers

Computer Aided Systems Theory - EUROCAST 2019 Roberto

Moreno-Díaz, Franz Pichler, Alexis Quesada-Arencibia, 2020-04-15 The two volume set LNCS 12013 and 12014 constitutes the thoroughly refereed proceedings of the 17th International Conference on Computer Aided Systems Theory EUROCAST 2019 held in Las Palmas de Gran Canaria Spain in February 2019 The 123 full papers presented were carefully reviewed and selected from 172 submissions The papers are organized in the following topical sections Part I systems theory and applications pioneers and landmarks in the development of information and communication technologies stochastic models and applications to natural social and technical systems theory and applications of metaheuristic algorithms model based system design verification and simulation Part II applications of signal processing technology artificial intelligence and data mining for intelligent transportation systems and smart mobility computer vision machine learning for image analysis and applications computer and systems based methods and electronic technologies in medicine advances in biomedical signal and image processing systems concepts and methods in touristic flows systems in industrial robotics automation and IoT

Feedback Control Theory for Dynamic Traffic Assignment Pushkin Kachroo, Kaan M.A. Özbay, 2018-05-16 This book develops a methodology for designing feedback control laws for dynamic traffic assignment DTA exploiting the introduction of new sensing and information dissemination technologies to facilitate the introduction of real time traffic management in intelligent transportation systems Three methods of modeling the traffic system are discussed partial differential equations representing a distributed parameter setting continuous time ordinary differential equations ODEs representing a continuous time lumped parameter setting and discrete time ODEs representing a discrete time lumped parameter setting Feedback control formulations for reaching road user equilibrium are presented for each setting and advantages and disadvantage of using each are addressed The closed loop methods described are proposed expressly to avoid the counter productive shifting of bottlenecks from one route to another because of driver over reaction to routing information The second edition of Feedback Control Theory for Dynamic Traffic Assignment has been thoroughly updated with completely new chapters a review of the DTA problem and emphasizing real time feedback based problems an up to date presentation of pertinent traffic flow theory and a treatment of the mathematical solution to the traffic dynamics Techniques accounting for the importance of entropy are further new inclusions at various points in the text Researchers working in traffic control will find the theoretical material presented a sound basis for further research the continual reference to applications will help professionals working in highway administration and engineering with the increasingly important task of maintaining and smoothing traffic flow the extensive use of end of chapter exercises will help the graduate student and those new to the field to extend their knowledge

Parallel Processing and Applied Mathematics Roman Wyrzykowski, Jack Dongarra, Ewa Deelman, Konrad Karczewski, 2023-04-26 This two volume set LNCS 13826 and LNCS 13827 constitutes the proceedings of the 14th International Conference on Parallel Processing and Applied Mathematics PPAM 2022 held in Gdansk Poland in September 2022 The 77 regular papers presented in these volumes were selected from 132 submissions For regular tracks of the conference 33 papers were selected from 62 submissions The papers were organized in topical sections named as follows Part I numerical algorithms and parallel scientific computing parallel non numerical algorithms GPU computing performance analysis and prediction in HPC systems scheduling for parallel computing environments and frameworks for parallel cloud computing applications of parallel and distributed computing soft computing with applications and special session on parallel EVD SVD and its application in matrix computations Part II 9th Workshop on Language Based Parallel Programming WLPP 2022 6th Workshop on Models Algorithms and Methodologies for Hybrid Parallelism in New HPC Systems MAMHYP 2022 first workshop on quantum computing and communication First Workshop on Applications of Machine Learning and Artificial Intelligence in High Performance Computing WAML 2022 4th workshop on applied high performance numerical algorithms for PDEs 5th minisymposium on HPC applications in physical sciences 8th minisymposium on high performance computing interval methods 7th workshop on complex collective systems

Theory, Numerics and Applications of Hyperbolic

Problems I Christian Klingenberg, Michael Westdickenberg, 2018-06-23 The first of two volumes this edited proceedings book features research presented at the XVI International Conference on Hyperbolic Problems held in Aachen Germany in summer 2016 It focuses on the theoretical applied and computational aspects of hyperbolic partial differential equations systems of hyperbolic conservation laws wave equations etc and of related mathematical models PDEs of mixed type kinetic equations nonlocal or and discrete models found in the field of applied sciences *Using the Engineering Literature* Bonnie A. Osif, 2016-04-19 With the encroachment of the Internet into nearly all aspects of work and life it seems as though information is everywhere However there is information and then there is correct appropriate and timely information While we might love being able to turn to Wikipedia for encyclopedia like information or search Google for the thousands of links

Crowd Dynamics, Volume 3 Nicola Bellomo, Livio Gibelli, 2022-02-28 This contributed volume explores innovative research in the modeling simulation and control of crowd dynamics Chapter authors approach the topic from the perspectives of mathematics physics engineering and psychology providing a comprehensive overview of the work carried out in this challenging interdisciplinary research field In light of the recent COVID 19 pandemic special consideration is given to applications of crowd dynamics to the prevention of the spreading of contagious diseases Some of the specific topics covered in this volume include Impact of physical distancing on the evacuation of crowds Generalized solutions of opinion dynamics models Crowd dynamics coupled with models for infectious disease spreading Optimized strategies for leaders in controlling the dynamics of a crowd Crowd Dynamics Volume 3 is ideal for mathematicians engineers physicists and other researchers working in the rapidly growing field of modeling and simulation of human crowds *A Quest Towards a Mathematical Theory of Living Systems* Nicola Bellomo, Abdelghani Bellouquid, Livio Gibelli, Nisrine Outada, 2017-07-13 This monograph aims to lay the groundwork for the design of a unified mathematical approach to the modeling and analysis of large complex systems composed of interacting living things Drawing on twenty years of research in various scientific fields it explores how mathematical kinetic theory and evolutionary game theory can be used to understand the complex interplay between mathematical sciences and the dynamics of living systems The authors hope this will contribute to the development of new tools and strategies if not a new mathematical theory The first chapter discusses the main features of living systems and outlines a strategy for their modeling The following chapters then explore some of the methods needed to potentially achieve this in practice Chapter Two provides a brief introduction to the mathematical kinetic theory of classical particles with special emphasis on the Boltzmann equation the Enskog equation mean field models and Monte Carlo methods are also briefly covered Chapter Three uses concepts from evolutionary game theory to derive mathematical structures that are able to capture the complexity features of interactions within living systems The book then shifts to exploring the relevant applications of these methods that can potentially be used to derive specific usable models The modeling of social systems in various contexts is the subject of Chapter Five and an overview of modeling crowd dynamics is given in Chapter Six

demonstrating how this approach can be used to model the dynamics of multicellular systems The final chapter considers some additional applications before presenting an overview of open problems The authors then offer their own speculations on the conceptual paths that may lead to a mathematical theory of living systems hoping to motivate future research activity in the field A truly unique contribution to the existing literature A Quest Toward a Mathematical Theory of Living Systems is an important book that will no doubt have a significant influence on the future directions of the field It will be of interest to mathematical biologists systems biologists biophysicists and other researchers working on understanding the complexities of living systems

Multiscale Modeling of Pedestrian Dynamics Emiliano Cristiani, Benedetto Piccoli, Andrea Tosin, 2014-09-12 This book presents mathematical models and numerical simulations of crowd dynamics The core topic is the development of a new multiscale paradigm which bridges the microscopic and macroscopic scales taking the most from each of them for capturing the relevant clues of complexity of crowds The background idea is indeed that most of the complex trends exhibited by crowds are due to an intrinsic interplay between individual and collective behaviors The modeling approach promoted in this book pursues actively this intuition and profits from it for designing general mathematical structures susceptible of application also in fields different from the inspiring original one The book considers also the two most traditional points of view the microscopic one in which pedestrians are tracked individually and the macroscopic one in which pedestrians are assimilated to a continuum Selected existing models are critically analyzed The work is addressed to researchers and graduate students

Crowd Dynamics, Volume 2 Livio Gibelli, 2020-10-23 This contributed volume explores innovative research in the modeling simulation and control of crowd dynamics Chapter authors approach the topic from the perspectives of mathematics physics engineering and psychology providing a comprehensive overview of the work carried out in this challenging interdisciplinary research field After providing a critical analysis of the current state of the field and an overview of the current research perspectives chapters focus on three main research areas pedestrian interactions crowd control and multiscale modeling Specific topics covered in this volume include crowd dynamics through conservation laws recent developments in controlled crowd dynamics mixed traffic modeling insights and applications from crowd psychology Crowd Dynamics Volume 2 is ideal for mathematicians engineers physicists and other researchers working in the rapidly growing field of modeling and simulation of human crowds

Predicting Pandemics in a Globally Connected World, Volume 1 Nicola Bellomo, Mark A. J. Chaplain, 2022-09-22 This contributed volume investigates several mathematical techniques for the modeling and simulation of viral pandemics with a special focus on COVID 19 Modeling a pandemic requires an interdisciplinary approach with other fields such as epidemiology virology immunology and biology in general Spatial dynamics and interactions are also important features to be considered and a multiscale framework is needed at the level of individuals and the level of virus particles and the immune system Chapters in this volume address these items as well as offer perspectives for the future

Parallel Algorithms in Computational Science and Engineering Ananth

Grama,Ahmed H. Sameh,2020-07-06 This contributed volume highlights two areas of fundamental interest in high performance computing core algorithms for important kernels and computationally demanding applications The first few chapters explore algorithms numerical techniques and their parallel formulations for a variety of kernels that arise in applications The rest of the volume focuses on state of the art applications from diverse domains By structuring the volume around these two areas it presents a comprehensive view of the application landscape for high performance computing while also enabling readers to develop new applications using the kernels Readers will learn how to choose the most suitable parallel algorithms for any given application ensuring that theory and practicality are clearly connected Applications using these techniques are illustrated in detail including Computational materials science and engineering Computational cardiovascular analysis Multiscale analysis of wind turbines and turbomachinery Weather forecasting Machine learning techniques Parallel Algorithms in Computational Science and Engineering will be an ideal reference for applied mathematicians engineers computer scientists and other researchers who utilize high performance computing in their work

Crowd Dynamics, Volume 4 Nicola Bellomo,Livio Gibelli,2023-12-13 This contributed volume explores innovative research in the modeling simulation and control of crowd dynamics Chapter authors approach the topic from the perspectives of mathematics physics engineering and psychology providing a comprehensive overview of the work carried out in this challenging interdisciplinary research field The volume begins with an overview of analytical problems related to crowd modeling Attention is then given to the importance of considering the social and psychological factors that influence crowd behavior such as emotions communication and decision making processes in order to create reliable models Finally specific features of crowd behavior are explored including single file traffic passenger movement modeling multiple groups in crowds and the interplay between crowd dynamics and the spread of disease Crowd Dynamics Volume 4 is ideal for mathematicians engineers physicists and other researchers working in the rapidly growing field of modeling and simulation of human crowds

Traffic and Granular Flow 2019 Iker Zuriguel,Angel Garcimartín,Raúl Cruz Hidalgo,2020-11-16 This book gathers contributions on a variety of flowing collective systems While primarily focusing on pedestrian dynamics they also reflect the latest developments in areas such as vehicular traffic and granular flows and address related emerging topics such as self propelled particles data transport swarm behavior intercellular transport and collective dynamics of biological systems Combining fundamental research and practical applications in the various fields discussed the book offers a valuable asset for researchers and practitioners alike

Crowd Dynamics, Volume 1 Livio Gibelli,Nicola Bellomo,2019-01-22 This volume explores the complex problems that arise in the modeling and simulation of crowd dynamics in order to present the state of the art of this emerging field and contribute to future research activities Experts in various areas apply their unique perspectives to specific aspects of crowd dynamics covering the topic from multiple angles These include a demonstration of how virtual reality may solve dilemmas in collecting empirical data a detailed study on pedestrian movement in smoke filled

environments a presentation of one dimensional conservation laws with point constraints on the flux a collection of new ideas on the modeling of crowd dynamics at the microscopic scale and others Applied mathematicians interested in crowd dynamics pedestrian movement traffic flow modeling urban planning and other topics will find this volume a valuable resource Additionally researchers in social psychology architecture and engineering may find this information relevant to their work

Handbook of Research on Design, Control, and Modeling of Swarm Robotics Tan, Ying, 2015-12-09 Studies on robotics applications have grown substantially in recent years with swarm robotics being a relatively new area of research Inspired by studies in swarm intelligence and robotics swarm robotics facilitates interactions between robots as well as their interactions with the environment The Handbook of Research on Design Control and Modeling of Swarm Robotics is a collection of the most important research achievements in swarm robotics thus far covering the growing areas of design control and modeling of swarm robotics This handbook serves as an essential resource for researchers engineers graduates and senior undergraduates with interests in swarm robotics and its applications

Multi-Agent Systems for Traffic and Transportation Engineering Bazzan, Ana, Klügl, Franziska, 2009-04-30 This book aims at giving a complete panorama of the active and promising crossing area between traffic engineering and multi agent system addressing both current status and challenging new ideas Provided by publisher

Interface and Transport Dynamics Heike Emmerich, Britta Nestler, Michael Schreckenberger, 2003-09-03 An overview of the recent progress of research in computational physics and materials science Particular topics are modelling of traffic flow and complex multi scale solidification phenomena The sections introduce novel research results of experts from a considerable diversity of disciplines such as physics mathematical and computational modelling nonlinear dynamics materials sciences statistical mechanics and foundry technique The book intends to create a comprehensive and coherent image of the current research status and illustrates new simulation results of transport and interface dynamics by high resolution graphics Various possible perspectives are formulated for future activities Special emphasis is laid on exchanging experiences concerning numerical tools and on the bridging of the scales as is necessary in a variety of scientific and engineering applications An interesting possibility along this line was the coupling of different computational approaches leading to hybrid simulations

Extreme Environmental Events Robert A. Meyers, 2010-11-03 Extreme Environmental Events is an authoritative single source for understanding and applying the basic tenets of complexity and systems theory as well as the tools and measures for analyzing complex systems to the prediction monitoring and evaluation of major natural phenomena affecting life on earth These phenomena are often highly destructive and include earthquakes tsunamis volcanoes climate change and weather Early warning damage and the immediate response of human populations to these phenomena are also covered from the point of view of complexity and nonlinear systems In 61 authoritative state of the art articles world experts in each field apply such tools and concepts as fractals cellular automata solitons game theory network theory and statistical physics to an understanding of these complex

geophysical phenomena

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