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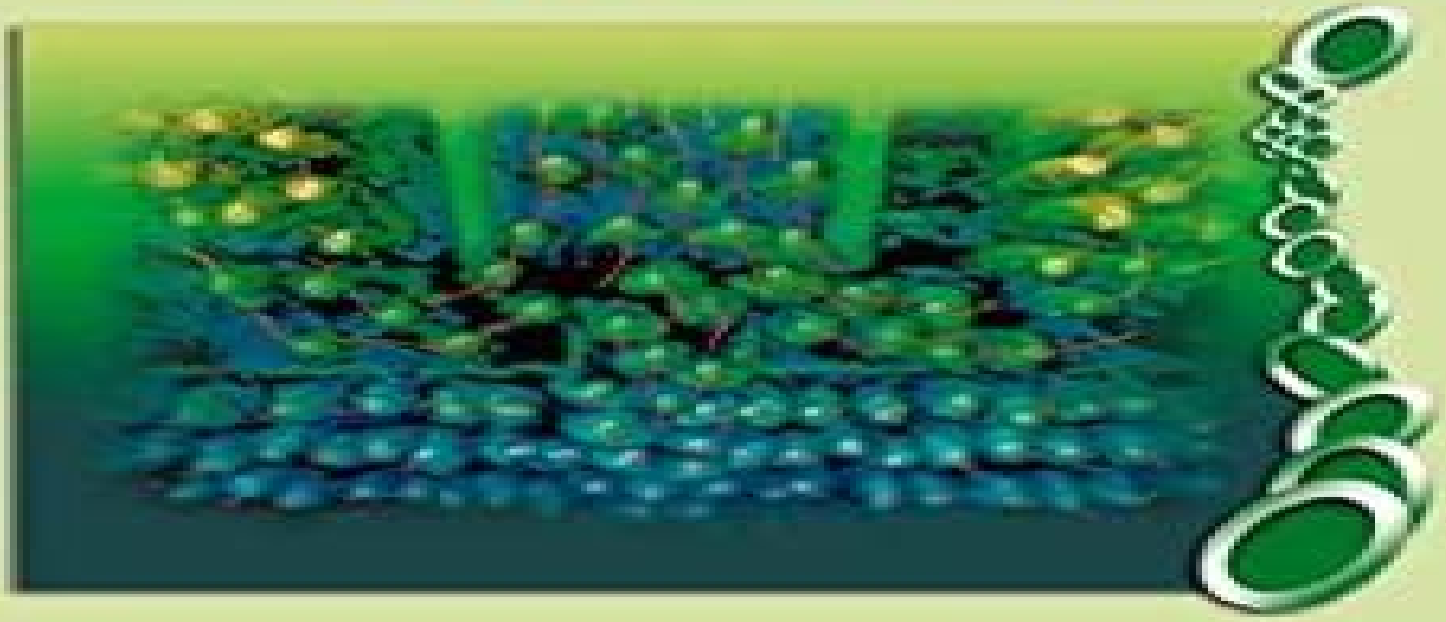
# Traffic and Granular Flow '13



Springer

# Traffic And Granular Flow 13

Andreas Schadschneider,Thorsten Pöschel,Reinhart Kühne,Michael Schreckenberg,Dietrich E. Wolf

**Traffic And Granular Flow 13:**

**Traffic and Granular Flow '13** Mohcine Chraibi,Maik Boltes,Andreas Schadschneider,Armin Seyfried,2014-12-05 This book continues the biannual series of conference proceedings which has become a classical reference resource in traffic and granular research alike and addresses the latest developments at the intersection of physics engineering and computational science These involve complex systems in which multiple simple agents be they vehicles or particles give rise to surprising and fascinating phenomena The contributions collected in these proceedings cover several research fields all of which deal with transport Topics include highway pedestrian and internet traffic granular matter biological transport transport networks data acquisition data analysis and technological applications Different perspectives i e modeling simulations experiments and phenomenological observations are considered **Traffic and Granular Flow '15** Victor L. Knoop,Winnie Daamen,2016-12-10 The Conference on Traffic and Granular Flow brings together international researchers from different fields ranging from physics to computer science and engineering to discuss the latest developments in traffic related systems Originally conceived to facilitate new ideas by considering the similarities of traffic and granular flow TGF 15 organised by Delft University of Technology now covers a broad range of topics related to driven particle and transport systems Besides the classical topics of granular flow and highway traffic its scope includes data transport Internet traffic pedestrian and evacuation dynamics intercellular transport swarm behaviour and the collective dynamics of other biological systems Recent advances in modelling computer simulation and phenomenology are presented and prospects for applications for example to traffic control are discussed The conference explores the interrelations between the above mentioned fields and offers the opportunity to stimulate interdisciplinary research exchange ideas and meet many experts in these areas of research

*Traffic and Granular Flow '11* Valery V. Kozlov,Alexander P. Buslaev,Alexander S. Bugaev,Marina V. Yashina,Andreas Schadschneider,Michael Schreckenberg,2014-07-08 This book continues the biannual series of conference proceedings which has become a classical reference resource in traffic and granular research alike It addresses new developments at the interface between physics engineering and computational science Complex systems where many simple agents be they vehicles or particles give rise to surprising and fascinating phenomena The contributions collected in these proceedings cover several research fields all of which deal with transport Topics include highway pedestrian and internet traffic granular matter biological transport transport networks data acquisition data analysis and technological applications Different perspectives i e modeling simulations experiments and phenomenological observations are considered *Traffic and Granular Flow ’99* D. Helbing,H.J. Herrmann,M. Schreckenberg,D.E. Wolf,2012-12-06 Are there common phenomena and laws in the dynamic behavior of granular materials traffic and socio economic systems The answers given at the international workshop Traffic and Granular Flow 99 are presented in this volume From a physical standpoint all these systems can be treated as self driven many particle systems with strong fluctuations showing multistability phase transitions non linear

waves etc The great interest in these systems is due to several unexpected new discoveries and their practical relevance for solving some fundamental problems of today s societies This includes intelligent measures for traffic flow optimization and methods from econophysics for stabilizing stock markets **Traffic and Granular Flow ' 05** Andreas Schadschneider,Thorsten Pöschel,Reinhart Kühne,Michael Schreckenberg,Dietrich E. Wolf,2007-04-20 This book again continues the biannual series of now six conference proceedings which has become a classical reference in traffic and granular research alike It addresses new developments at the borderline between physics engineering and computational science Complex systems where many simple agents be it vehicles or particles give rise to surprising and fascinating phenomena *Traffic and Granular Flow ' 07* Cécile Appert-Rolland,François Chevoir,Philippe Gondret,Sylvain Lassarre,Jean-Patrick Lebacque,Michael Schreckenberg,2009-05-19 This book covers several research fields all of which deal with transport Three main topics are treated road traffic granular matter and biological transport Different points of view i e modelling simulations experiments and phenomenological observations are considered Sub topics include highway or urban vehicular traffic dynamics of traffic macro micro modelling measurements data analysis security issues psychological issues pedestrian traffic animal traffic e g social insects collective motion in biological systems molecular motors granular flow dense flows intermittent flows solid liquid transition jamming force networks fluid and solid friction networks biological networks urban traffic the internet vulnerability of networks optimal transport networks and cellular automata applied to the various aforementioned fields Traffic and Granular Flow ' 03 Serge P. Hoogendoorn,Stefan Luding,Piet H.L. Bovy,Michael Schreckenberg,Dietrich E. Wolf,2007-08-15 These proceedings are the fifth in the series Traffic and Granular Flow and we hope they will be as useful a reference as their predecessors Both the realistic modelling of granular media and traffic flow present important challenges at the borderline between physics and engineering and enormous progress has been made since 1995 when this series started Still the research on these topics is thriving so that this book again contains many new results Some highlights addressed at this conference were the influence of long range electric and magnetic forces and ambient fluids on granular media new precise traffic measurements and experiments on the complex decision making of drivers No doubt the hot topics addressed in granular matter research have diverged from those in traffic since the days when the obvious analogies between traffic jams on highways and dissipative clustering in granular flow intrigued both c munities alike However now just this diversity became a stimulating feature of the conference Many of us feel that our joint interest in complex systems where many simple agents be it vehicles or particles give rise to surprising and fascin ing phenomena is ample justification for bringing these communities together Traffic and Granular Flow has fostered cooperation and friendship across the scientific disciplines *Dynamics of Asymmetric Dissipative Systems* Yuki Sugiyama,2023-11-15 This book provides the dynamics of non equilibrium dissipative systems with asymmetric interactions Asymmetric Dissipative System ADS Asymmetric interaction breaks the law of action and reaction in mechanics and results

in non conservation of the total momentum and energy In such many particle systems the inflow of energy is provided and the energy flows out as dissipation The emergences of non trivial macroscopic phenomena occur in the non equilibrium energy balance owing to the effect of collective motions as phase transitions and bifurcations ADS are applied to the systems of self driven interacting particles such as traffic and granular flows pedestrians and evacuations and collective movement of living systems The fundamental aspects of dynamics in ADS are completely presented by a minimal mathematical model the Optimal Velocity OV Model Using that model the basics of mathematical and physical mechanisms of ADS are described analytically with exact results The application of 1 dimensional motions is presented for traffic jam formation The mathematical theory is compared with empirical data of experiments and observations on highways In 2 dimensional motion pattern formations of granular media pedestrians and group formations of organisms are described The common characteristics of emerged moving objects are a variety of patterns flexible deformations and rapid response against stimulus Self organization and adaptation in group formations and control of group motions are shown in examples Another OV Model formulated by a delay differential equation is provided with exact solutions using elliptic functions The relations to soliton systems are described Moreover several topics in ADS are presented such as the similarity between the spatiotemporal patterns violation of fluctuation dissipation relation and a thermodynamic function for governing the phase transition in non equilibrium stationary states Modelling and implementation of a microscopic traffic simulation system Johannes Brügmann,2015-11-16 This thesis presents the foundations the initial state and the progress made in modelling and implementing a real world and real time online microscopic traffic simulation system for highway traffic To successfully model and implement such a simulation system this thesis recommends the use of a number of formal methods applied at the right places As part of the recommendation this thesis proposes a microscopic traffic simulation system To explore the feasibility and the potential of the recommended methods it observes and examines the proposed system from multiple views and under various different aspects As part of the examination this thesis provides a semi formal specification a model implementation an implementation of a productive system and the benefits that result from validating such a system The results and any proper application of them have the potential to increase the reliability and the trustworthiness for any future implementation of the proposed simulation system The presented results additionally motivate to apply the proposed approach to similar simulation systems The thesis concludes the presentation of the results with some considerations for future implementations **Modeling and Simulation of Complex Collective Systems** Jarosław Wąs,2023-10-26 Providing a comprehensive overview of the modeling of complex systems with particular emphasis on the collective aspects of these systems this book situates itself at the forefront of available literature Exemplifying practically Wolfram s theses found in A New Kind of Science discussions center on where it is best to use a cellular automaton when it is reasonable to use a hybrid approach and when it is best to use a traditional method such as one based on differential equations A range of

fascinating examples are discussed ranging from models of crowd dynamics car traffic downhill skiers and oil spreading across the sea surface All are discussed and illustrated with comments These examples explore how simple rules can create incredibly complex patterns and are used to compare cellular automata with more traditional methods This book is of critical importance to students and lecturers interested in complex system modeling as well as containing translatable techniques that have applications in a wide range of fields **Workshop on Traffic and Granular Flow '97** Michael Schreckenberg,Dietrich Wolf,1998-12 Can one obtain new insights by comparing the motion of bacteria or plancton striving for food and light with that of pedestrians in a crowded street Do complex transport networks behave similarly under high load be it the internet or downtown city traffic These and related questions were topics of the international workshop on Traffic and Granular Flow 97 which took place in Duisburg 6 8 October 1997 as part of the 25th anniversary of the Gerhard Mercator Universit t Duisburg The contributions contained in the book reflect the enormous research activities in this interdisciplinary field which attracts increasing public attention *Traffic and Granular Flow '17* Samer H. Hamdar,2019-10-23 This book presents 57 peer reviewed papers from the 12th Conference on Traffic and Granular Flow TGF held in Washington DC in July 2017 It offers a unique synthesis of the latest scientific findings made by researchers from different countries institutions and disciplines The research fields covered range from physics computer science and engineering and they may be all grouped under the topic of Traffic and Granular Flow The main theme of the Conference was From Molecular Interactions to Internet of Things and Smart Cities The Role of Technology in the Understanding and the Evolution of Particle Dynamics *Traffic Networks as Information Systems* Jean-Pierre Aubin,Anya Désilles,2016-07-13 This authored monograph covers a viability to approach to traffic management by advising to vehicles circulated on the network the velocity they should follow for satisfying global traffic conditions It presents an investigation of three structural innovations The objective is to broadcast at each instant and at each position the advised celerity to vehicles which could be read by auxiliary speedometers or used by cruise control devices Namely 1 Construct regulation feedback providing at each time and position advised velocities celerities for minimizing congestion or other requirements 2 Taking into account traffic constraints of different type the first one being to remain on the roads to stop at junctions etc 3 Use information provided by the probe vehicles equipped with GPS to the traffic regulator 4 Use other global traffic measures of vehicles provided by different types of sensors These results are based on convex analysis intertemporal optimization and viability theory as mathematical tools as well as viability algorithms on the computing side instead of conventional techniques such as partial differential equations and their resolution by finite difference or finite elements algorithms The target audience primarily covers researchers and mathematically oriented engineers but the book may also be beneficial for graduate students

**Computational Science -- ICCS 2005** V.S. Sunderam,G. Dick van Albada,Peter M.A. Sloot,Jack Dongarra,2005-05-04 The Fifth International Conference on Computational Science ICCS 2005 held in Atlanta Georgia USA May 22 25 2005

**Pedestrian and Evacuation Dynamics 2005** Nathalie Waldau,Peter Gattermann,Hermann Knoflacher,Michael Schreckenberg,2007-05-26 Due to an increasing number of reported catastrophes all over the world the safety especially of pedestrians today is a dramatically growing field of interest both for practitioners as well as scientists from various disciplines The questions arising mainly address the dynamics of evacuating people and possible optimisations of the process by changing the architecture and or the procedure This concerns not only the case of ships stadiums or buildings all with restricted geometries but also the evacuation of complete geographical regions due to natural disasters Furthermore also simple crowd motion in relaxed situations poses new questions with respect to higher comfort and efficiency since the number of involved persons at large events is as high as never before In addition as a new research topic in this field collective animal behaviour is attracting increasing attention All this was in the scope of the conference held in Vienna September 28 30 2005 the third one in a series after Duisburg 2001 and Greenwich 2003 Physics of the Human Mind Ihor Lubashevsky,2017-02-12 This book tackles the challenging question which mathematical formalisms and possibly new physical notions should be developed for quantitatively describing human cognition and behavior in addition to the ones already developed in the physical and cognitive sciences Indeed physics is widely used in modeling social systems where in particular new branches of science such as sociophysics and econophysics have arisen However many if not most characteristic features of humans like willingness emotions memory future prediction and moral norms to name but a few are not yet properly reflected in the paradigms of physical thought and theory The choice of a relevant formalism for modeling mental phenomena requires the comprehension of the general philosophical questions related to the mind body problem Plausible answers to these questions are investigated and reviewed notions and concepts to be used or to be taken into account are developed and some challenging questions are posed as open problems This text addresses theoretical physicists and neuroscientists modeling any systems and processes where human factors play a crucial role philosophers interested in applying philosophical concepts to the construction of mathematical models and the mathematically oriented psychologists and sociologists whose research is fundamentally related to modeling mental processes **Data-Driven Traffic Engineering** Hubert Rehborn,Micha Koller,Stefan Kaufmann,2020-10-23 Data Driven Traffic Engineering Understanding of Traffic and Applications Based on Three Phase Traffic Theory shifts the current focus from using modeling and simulation data for traffic measurements to the use of actual data The book uses real world empirically derived data from a large fleet of connected vehicles local observations and aerial observation to shed light on key traffic phenomena Readers will learn how to develop an understanding of the empirical features of vehicular traffic networks and how to consider these features in emerging intelligent transport systems Topics cover congestion patterns fuel consumption the influence of weather and much more This book offers a unique data driven analysis of vehicular traffic in traffic networks also considering how to apply data driven insights to the intelligent transport systems of the future Provides an empirically driven analysis of traffic

measurements congestion based on real world data collected from a global fleet of vehicles Applies Kerner s three phase traffic theory to empirical data Offers a critical scientific understanding of the underlying concerns of traffic control in automated driving and intelligent transport systems *Disciplinary Convergence in Systems Engineering Research* Azad M. Madni,Barry Boehm,Roger G. Ghanem,Daniel Erwin,Marilee J. Wheaton,2017-11-24 The theme of this volume on systems engineering research is disciplinary convergence bringing together concepts thinking approaches and technologies from diverse disciplines to solve complex problems Papers presented at the Conference on Systems Engineering Research CSER March 23 25 2017 at Redondo Beach CA are included in this volume This collection provides researchers in academia industry and government forward looking research from across the globe written by renowned academic industry and government researchers The Physics of Traffic Boris S. Kerner,2004-11-19 The core of ths book presents a theory developed by the author to combine the recent insight into empirical data with mathematical models in freeway traffic research based on dynamical non linear processes **Complex Dynamics in Communication Networks** Ljupco Kocarev,2005-06-13 Computer and communication networks are among society s most important infrastructures The internet in particular is a giant global network of networks without central control or administration It is a paradigm of a complex system where complexity may arise from different sources topological structure network evolution connection and node diversity or dynamical evolution The present volume is the first book entirely devoted to the new and emerging field of nonlinear dynamics of TCP IP networks It addresses both scientists and engineers working in the general field of communication networks

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