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*This book constitutes the refereed proceedings of the 7th International Symposium on Practical Aspects of Declarative Languages, PADL 2005, held in Long Beach, CA, USA in January 2005. The 17 revised full papers presented together with the abstracts of 2 invited talks were carefully reviewed and selected from 36 submissions. All current aspects of declarative programming are addressed including implementational issues*

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*and applications in areas such as database management, active networks, software engineering, decision support systems, and music composition.*

*This book constitutes the refereed proceedings of the 9th International Symposium on Functional and Logic Programming, FLOPS 2008. The 20 revised full papers, together with 3 invited contributions were carefully reviewed and selected from 59 submissions.*

*Combining mathematical theory, physical principles, and engineering problems,  
Generalized Calculus with Applications to*

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*Matter and Forces examines generalized functions, including the Heaviside unit jump and the Dirac unit impulse and its derivatives of all orders, in one and several dimensions. The text introduces the two main approaches to generalized functions: (1) as a nonuniform limit of a family of ordinary functions, and (2) as a functional over a set of test functions from which properties are inherited. The second approach is developed more extensively to encompass multidimensional generalized functions whose arguments are ordinary functions of several variables. As part of a series of books for*

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*engineers and scientists exploring advanced mathematics, Generalized Calculus with Applications to Matter and Forces presents generalized functions from an applied point of view, tackling problem classes such as: Gauss and Stokes' theorems in the differential geometry, tensor calculus, and theory of potential fields Self-adjoint and non-self-adjoint problems for linear differential equations and nonlinear problems with large deformations Multipolar expansions and Green's functions for elastic strings and bars, potential and rotational flow, electro- and magnetostatics, and more This third*

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*volume in the series Mathematics and Physics for Science and Technology is designed to complete the theory of functions and its application to potential fields, relating generalized functions to broader follow-on topics like differential equations. Featuring step-by-step examples with interpretations of results and discussions of assumptions and their consequences, Generalized Calculus with Applications to Matter and Forces enables readers to construct mathematical–physical models suited to new observations or novel engineering devices.*

*From Raw Data to Trajectory-Oriented Mobility*

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***Analytics in the Aviation and Maritime  
Domains***

***Practical Aspects of Declarative Languages  
Dynamic Logic. New Trends and Applications  
Final Programmatic Environmental Impact  
Statement***

***Correlation of Physical Properties with  
Molecular Structure for Some Dicyclic  
Hydrocarbons Having High Thermal-energy  
Release Per Unit Volume***

***Complexity of Infinite-Domain Constraint  
Satisfaction***

This book provides state-of-the-art scientific and  
engineering research findings and developments in the

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area of service robotics and associated support technologies around the theme of human-centric robotics. The book contains peer reviewed articles presented at the CLAWAR 2017 conference. The book contains a strong stream of papers on robotic locomotion strategies and wearable robotics for assistance and rehabilitation. There is also a strong collection of papers on non-destructive inspection, underwater and UAV robotics to meet the growing emerging needs in various sectors of the society. Robot designs based on biological inspirations are also strongly featured.

This book constitutes the proceedings of the 5th International Conference on Hybrid Artificial Intelligent

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Systems, held in San Sebastian, Spain, in June 2010. This textbook presents all the mathematical and physical concepts needed to visualize and understand representation surfaces, providing readers with a reliable and intuitive understanding of the behavior and properties of anisotropic materials, and a sound grasp of the directionality of material properties. They will learn how to extract quantitative information from representation surfaces, which encode tremendous amounts of information in a very concise way, making them especially useful in understanding higher order tensorial material properties (piezoelectric moduli, elastic compliance and rigidity, etc.) and in the design of



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applications based on these materials. Readers will also learn from scratch concepts on crystallography, symmetry and Cartesian tensors, which are essential for understanding anisotropic materials, their design and application. The book describes how to apply representation surfaces to a diverse range of material properties, making it a valuable resource for material scientists, mechanical engineers, and solid state physicists, as well as advanced undergraduates in Materials Science, Solid State Physics, Electronics, Optics, Mechanical Engineering, Composites and Polymer Science. Moreover, the book includes a wealth of worked-out examples, problems and exercises to help

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further understanding.

Environmental Impact Statement

4-5 April 2003, Sevilla, Spain

Automata and Petri Net Perspectives

16th Portuguese Conference on Artificial Intelligence,

EPIA 2013, Angra do Heroísmo, Azores, Portugal,

September 9-12, 2013, Proceedings

Generalized Calculus with Applications to Matter and  
Forces

NASA Ames Development Plan

**This book constitutes the refereed proceedings of the 16th  
Portuguese Conference on Artificial Intelligence, EPIA  
2013, held in Angra do Heroísmo, Azores, Portugal, in**

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**September 2013. The 45 revised full papers presented were carefully reviewed and selected from a total of 157 submissions. The papers are organized in the following topical sections: ambient intelligence and affective environments; artificial intelligence in transportation systems; artificial life and evolutionary algorithms; computational methods in bioinformatics and systems biology; general artificial intelligence; intelligent robotics; knowledge discovery and business intelligence; multi-agent systems: theory and applications; social simulation and modeling; and text mining and applications.**

**Introduces the universal-algebraic approach to classifying the computational complexity of constraint satisfaction**

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**problems.**

**This book constitutes the refereed proceedings of the 4th International Conference on Computational Modeling of Objects Presented in Images, CompIMAGE 2014, held in Pittsburgh, PA, USA, in September 2014. The 29 revised full papers presented together with 10 short papers and 6 keynote talks were carefully reviewed and selected from 54 submissions. The papers cover the following topics: medical treatment, imaging and analysis; image registration, denoising and feature identification; image segmentation; shape analysis, meshing and graphs; medical image processing and simulations; image recognition, reconstruction and predictive modeling; image-**

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**based modeling and simulations; and computer vision and data-driven investigations.**

**A Visual Approach to Understanding Anisotropic Materials**

**Congressional Serial Set**

**Functional and Logic Programming**

**Progress in Pattern Recognition, Image Analysis and Applications**

**10th Iberoamerican Congress on Pattern Recognition, CIARP 2005, Havana, Cuba, November 15-18, 2005, Proceedings**

**Vasona Corridor, Light Rail Transit Project**

*This book constitutes the refereed proceedings of the 10th*

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*Iberoamerican Congress on Pattern Recognition, CIARP 2005, held in Havana, Cuba in November 2005. The 107 revised full papers presented together with 3 keynote articles were carefully reviewed and selected from more than 200 submissions. The papers cover ongoing research and mathematical methods for pattern recognition, image analysis, and applications in such diverse areas as computer vision, robotics, industry, health, entertainment, space exploration, telecommunications, data mining, document analysis, and natural language processing and recognition.*

*A compact presentation of the foundations, current state of the art, recent developments and research directions of all essential techniques related to the mechanics of composite materials and structures. Special emphasis is placed on classic and recently*

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*developed theories of composite laminated beams, plates and shells, micromechanics, impact and damage analysis, mechanics of textile structural composites, high strain rate testing and non-destructive testing of composite materials and structures. Topics of growing importance are addressed, such as: numerical methods and optimisation, identification and damage monitoring. The latest results are presented on the art of modelling smart composites, optimal design with advanced materials, and industrial applications. Each section of the book is written by internationally recognised experts who have dedicated most of their research work to a particular field. Readership: Postgraduate students, researchers and engineers in the field of composites. Undergraduate students will benefit from the treatment of the foundations of the mechanics of composite*

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*materials and structures.*

*This book constitutes the proceedings of the Seventh International Symposium on Programming Languages: Implementations, Logics and Programs, PLILP '95, held in Utrecht, The Netherlands, in September 1995. The book presents 26 refereed full papers selected from 84 submissions; they report research on declarative programming languages and provide insights in the relation between the logic of those languages, implementation techniques, and the use of these languages in constructing real programs. In addition there are abstracts or full presentations of three invited talks as well as eight posters and demonstrations.*

*Territorial Highway Study*

*6th International Conference, EuroHaptics 2008 Madrid, Spain, June 11-13, 2008, Proceedings*



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***Engineering Analysis of Fatal Accident Data from FARS.  
7th International Symposium, PLILP '95, Utrecht, The  
Netherlands, September 20 - 22, 1995. Proceedings  
5th International Conference, HAIS 2010, San Sebastian, Spain,  
June 23-25, 2010. Proceedings  
Catalog of Copyright Entries. Part 4. Works of Art, Etc. New  
Series***

This book provides detailed descriptions of big data solutions for activity detection and forecasting of very large numbers of moving entities spread across large geographical areas. It presents state-of-the-art methods for processing, managing, detecting and predicting trajectories and important events related to moving entities, together with advanced visual analytics methods, over multiple heterogeneous, voluminous, fluctuating and noisy data streams from

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moving entities, correlating them with data from archived data sources expressing e.g. entities' characteristics, geographical information, mobility patterns, mobility regulations and intentional data. The book is divided into six parts: Part I discusses the motivation and background of mobility forecasting supported by trajectory-oriented analytics, and includes specific problems and challenges in the aviation (air-traffic management) and the maritime domains. Part II focuses on big data quality assessment and processing, and presents novel technologies suitable for mobility analytics components. Next, Part III describes solutions toward processing and managing big spatio-temporal data, particularly enriching data streams and integrating streamed and archival data to provide coherent views of mobility, and storing of integrated mobility data in large distributed knowledge graphs for efficient

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query-answering. Part IV focuses on mobility analytics methods exploiting (online) processed, synopsisized and enriched data streams as well as (offline) integrated, archived mobility data, and highlights future location and trajectory prediction methods, distinguishing between short-term and more challenging long-term predictions. Part V examines how methods addressing data management, data processing and mobility analytics are integrated in big data architectures with distinctive characteristics compared to other known big data paradigmatic architectures. Lastly, Part VI covers important ethical issues that research on mobility analytics should address. Providing novel approaches and methodologies related to mobility detection and forecasting needs based on big data exploration, processing, storage, and analysis, this book will appeal to computer scientists and stakeholders in various

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application domains.

This three volume set (CCIS 853-855) constitutes the proceedings of the 17th International Conference on Information Processing and Management of Uncertainty in Knowledge-Based Systems, IPMU 2017, held in Cádiz, Spain, in June 2018. The 193 revised full papers were carefully reviewed and selected from 383 submissions. The papers are organized in topical sections on advances on explainable artificial intelligence; aggregation operators, fuzzy metrics and applications; belief function theory and its applications; current techniques to model, process and describe time series; discrete models and computational intelligence; formal concept analysis and uncertainty; fuzzy implication functions; fuzzy logic and artificial intelligence problems; fuzzy mathematical analysis and applications; fuzzy methods in data mining and knowledge

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discovery; fuzzy transforms: theory and applications to data analysis and image processing; imprecise probabilities: foundations and applications; mathematical fuzzy logic, mathematical morphology; measures of comparison and entropies for fuzzy sets and their extensions; new trends in data aggregation; pre-aggregation functions and generalized forms of monotonicity; rough and fuzzy similarity modelling tools; soft computing for decision making in uncertainty; soft computing in information retrieval and sentiment analysis; tri-partitions and uncertainty; decision making modeling and applications; logical methods in mining knowledge from big data; metaheuristics and machine learning; optimization models for modern analytics; uncertainty in medicine; uncertainty in Video/Image Processing (UVIP).

Lists citations with abstracts for aerospace related reports obtained

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from world wide sources and announces documents that have recently been entered into the NASA Scientific and Technical Information Database.

Control of Discrete-Event Systems

Scientific and Technical Aerospace Reports

By P.H. Wise, K.T. Serijan, and I.A. Goodman

Information Processing and Management of Uncertainty in

Knowledge-Based Systems. Applications

Proceedings of the 20th International Conference on CLAWAR

2017

Second Avenue Subway in the Borough of Manhattan, New York

County

*This book provides techniques to tackle*

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*the design challenges raised by the increasing diversity and complexity of emerging, heterogeneous architectures for embedded systems. It describes an approach based on techniques from software engineering called aspect-oriented programming, which allow designers to control today's sophisticated design tool chains, while maintaining a single application source code. Readers are introduced to the basic concepts of an aspect-oriented,*

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*domain specific language that enables control of a wide range of compilation and synthesis tools in the partitioning and mapping of an application to a heterogeneous (and possibly multi-core) target architecture. Several examples are presented that illustrate the benefits of the approach developed for applications from avionics and digital signal processing. Using the aspect-oriented programming techniques presented in this book, developers can*



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*reuse extensive sections of their designs, while preserving the original application source-code, thus promoting developer productivity as well as architecture and performance portability. Describes an aspect-oriented approach for the compilation and synthesis of applications targeting heterogeneous embedded computing architectures. Includes examples using an integrated tool chain for compilation and synthesis. Provides*

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*validation and evaluation for targeted reconfigurable heterogeneous architectures. Enables design portability, given changing target devices. Allows developers to maintain a single application source code when targeting multiple architectures.*

*Welcome to the proceedings of the 6th EuroHaptics 2008 conference held in Madrid, June 10-13, 2008 under the auspices of the Universidad Politécnica de Madrid. EuroHaptics conferences have*

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*been held in Europe, initially annually, now on a biennial basis, since the first one at the University of Birmingham in 2001. The promotion of the European haptics community by the Eurohaptics Society ([www.eurohaptics.org](http://www.eurohaptics.org)) integrates a multidisciplinary group of researchers with a wide range of interests stemming from backgrounds in technical, scientific, educational and artistic disciplines. The regular congregation of individuals around the*

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*topic of haptics has led to many fruitful and successful interactions that have developed across the EuroHaptics conferences. Moreover, this community now enjoys links to researchers around the rest of the world through the WorldHaptics conference series, of which EuroHaptics is proud to be a sponsoring partner. Such links offer increased possibilities for collaboration which can only bring us greater successes in*

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*our endeavours to understand the nature of haptics. June 2008 Alan Wing  
President of EuroHaptics Society IEEE  
Technical Committee on Haptics (TCH)  
<http://www.worldhaptics.org/> The IEEE  
Technical Committee on Haptics (TCH) is  
co-sponsored by the IEEE Robotics &  
Automation Society and the IEEE  
Computer Society. The mission of the  
TCH is to integrate the diverse  
interests of the highly  
interdisciplinary haptics community and*

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*to improve communication among the different research areas.*

*Geocomputation with R is for people who want to analyze, visualize and model geographic data with open source software. It is based on R, a statistical programming language that has powerful data processing, visualization, and geospatial capabilities. The book equips you with the knowledge and skills to tackle a wide range of issues manifested in*

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*geographic data, including those with scientific, societal, and environmental implications. This book will interest people from many backgrounds, especially Geographic Information Systems (GIS) users interested in applying their domain-specific knowledge in a powerful open source language for data science, and R users interested in extending their skills to handle spatial data. The book is divided into three parts: (I)*

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*Foundations, aimed at getting you up-to-speed with geographic data in R, (II) extensions, which covers advanced techniques, and (III) applications to real-world problems. The chapters cover progressively more advanced topics, with early chapters providing strong foundations on which the later chapters build. Part I describes the nature of spatial datasets in R and methods for manipulating them. It also covers geographic data import/export and*



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*transforming coordinate reference systems. Part II represents methods that build on these foundations. It covers advanced map making (including web mapping), "bridges" to GIS, sharing reproducible code, and how to do cross-validation in the presence of spatial autocorrelation. Part III applies the knowledge gained to tackle real-world problems, including representing and modeling transport systems, finding optimal locations for stores or*

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*services, and ecological modeling. Exercises at the end of each chapter give you the skills needed to tackle a range of geospatial problems. Solutions for each chapter and supplementary materials providing extended examples are available at <https://geocompr.github.io/geocompkg/articles/>. Dr. Robin Lovelace is a University Academic Fellow at the University of Leeds, where he has taught R for geographic research over many years, with a focus*

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*on transport systems. Dr. Jakub Nowosad is an Assistant Professor in the Department of Geoinformation at the Adam Mickiewicz University in Poznan, where his focus is on the analysis of large datasets to understand environmental processes. Dr. Jannes Muenchow is a Postdoctoral Researcher in the GIScience Department at the University of Jena, where he develops and teaches a range of geographic methods, with a focus on ecological*

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*modeling, statistical geocomputing, and predictive mapping. All three are active developers and work on a number of R packages, including stplanr, sabre, and RQGIS.*

*Big Data Analytics for Time-Critical  
Mobility Forecasting*

*Corpus Juris Secundum*

*4th International Conference, CompIMAGE  
2014, Pittsburgh, PA, USA, September  
3-5, 2014, Proceedings  
Guam, American Samoa, Virgin Islands*

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*Mechanics of Composite Materials and Structures*

*Motivic Integration and its Interactions with Model Theory and Non-Archimedean Geometry: Volume 1*

**The development of Maxim Kontsevich's initial ideas on motivic integration has unexpectedly influenced many other areas of mathematics, ranging from the Langlands program over harmonic analysis, to non-Archimedean analysis, singularity theory and birational geometry. This book assembles the different theories of motivic integration and their applications for the first time, allowing readers to**

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***compare different approaches and assess their individual strengths. All of the necessary background is provided to make the book accessible to graduate students and researchers from algebraic geometry, model theory and number theory. Applications in several areas are included so that readers can see motivic integration at work in other domains. In a rapidly-evolving area of research this book will prove invaluable. This first volume contains introductory texts on the model theory of valued fields, different approaches to non-Archimedean geometry, and motivic integration on algebraic varieties and non-Archimedean spaces.***

***Control of Discrete-event Systems provides a survey***

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***of the most important topics in the discrete-event systems theory with particular focus on finite-state automata, Petri nets and max-plus algebra. Coverage ranges from introductory material on the basic notions and definitions of discrete-event systems to more recent results. Special attention is given to results on supervisory control, state estimation and fault diagnosis of both centralized and distributed/decentralized systems developed in the framework of the Distributed Supervisory Control of Large Plants (DISC) project. Later parts of the text are devoted to the study of congested systems through fluidization, an over approximation allowing a much more efficient study of observation and control***

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***problems of timed Petri nets. Finally, the max-plus algebraic approach to the analysis and control of choice-free systems is also considered. Control of Discrete-event Systems provides an introduction to discrete-event systems for readers that are not familiar with this class of systems, but also provides an introduction to research problems and open issues of current interest to readers already familiar with them. Most of the material in this book has been presented during a Ph.D. school held in Cagliari, Italy, in June 2011.***

***The work of Jean Mawhin covers different aspects of the theory of differential equations and nonlinear analysis. On the occasion of his sixtieth birthday, a***



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***group of mathematicians gathered in Sevilla, Spain, in April 2003 to honor his mathematical achievements as well as his unique personality. This book provides an extraordinary view of a number of ground-breaking ideas and methods in nonlinear analysis and differential equations. List of Contributors: H Amann, M Delgado, J L G mez, A M Krasnoselskij, E Liz, J Mawhin, P Quittner, B P Rynne, L Sanchez, K Schmitt, J R Ward, F Zanolin, and others.***

***Third International Workshop, DaLí 2020, Prague, Czech Republic, October 9-10, 2020, Revised Selected Papers  
An Aspect-Oriented Approach***

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***Programming Languages: Implementations, Logics  
and Programs***

***The First 60 Years of Nonlinear Analysis of Jean  
Mawhin***

***7th International Symposium, PADL 2005, Long  
Beach, CA, USA, January 10-11, 2005, Proceedings  
manuel of instructions for the survey of the public  
lands of the united states 1947***

The Pennsylvania bulletin is the official gazette of the Commonwealth of Pennsylvania. It contains notices, regulations and other documents filed with the Legislative Reference Bureau ... and supplements the Pennsylvania code ...

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This book constitutes the proceedings of the Third International Workshop on Dynamic Logic, DaLí 2019, held in Prague, Czech Republic in October 2020. Due to COVID-19 the workshop has been held online. The 17 full papers presented together with 6 short papers were carefully reviewed and selected from 31 submissions. The theoretical relevance and practical potential of dynamic logic is a topic of interest in a number of scientific venues, from wide-scope software engineering conferences to modal logic specific events. The DaLí 2020 workshop is exclusively dedicated to Dynamic logic and aims at

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filling this gap and creating a heterogeneous community of colleagues, from Academia to Industry, from Mathematics to Computer Science.

Geological Survey Professional Paper

Haptics: Perception, Devices and Scenarios

Human-Centric Robotics

Geocomputation with R

Pennsylvania Bulletin

Computational Modeling of Objects Presented in Images: Fundamentals, Methods, and Applications