

Kees Dullemond Kasper Peeters

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Introduction to Mathematical Black Holes
Opinion Mining in Information Retrieval
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this book is about the harmonious synthesis of functional programming and numerical computation it shows how the expressiveness of ocaml allows for fast and safe development of data science applications step by step the authors build up to use cases drawn from many areas of data science machine learning and ai and then delve into how to deploy at scale using parallel distributed and accelerated frameworks to gain all the advantages of cloud computing environments to this end the book is divided into three parts each focusing on a different area part i begins by introducing how basic numerical techniques are performed in ocaml including classical mathematical topics interpolation and quadrature statistics and linear algebra it moves on from using only scalar values to multi dimensional arrays introducing the tensor and ndarray core data types in any numerical computing system it concludes with two more classical numerical computing topics the solution of ordinary differential equations odes and signal processing as well as introducing the visualization module we use throughout this book part ii is dedicated to advanced optimization techniques that are core to most current popular data science fields we do not focus only on applications but also on the basic building blocks starting with algorithmic differentiation the most crucial building block that in turn enables deep neural networks we follow this with chapters on optimization and regression also used in building deep neural networks we then introduce deep neural networks as well as topic modelling in natural language processing nlp two advanced and currently very active fields in both industry and academia part iii collects a range of case studies demonstrating how you can build a complete numerical application quickly from scratch using owl the cases presented include computer vision and

recommender systems this book aims at anyone with a basic knowledge of functional programming and a desire to explore the world of scientific computing whether to generally explore the field in the round to build applications for particular topics or to deep dive into how numerical systems are constructed it does not assume strict ordering in reading readers can simply jump to the topic that interests them most

this book is a very useful introduction for students and scholars of black holes through a detailed explanation of the equations and concepts related to astronomical black holes the importance of the book lies in simplifying mathematical equations without hindrance and making them accessible to understanding away from complexity the book s sequence also allows students to progress in understanding smoothly and easily

this book discusses in detail the latest trends in sentiment analysis focusing on how online reviews and feedback reflect the opinions of users and have led to a major shift in the decision making process at organizations social networking has become essential in today s society in the past people s decisions to buy certain products and companies efforts to sell them were largely based on advertisements surveys focus groups consultants and the opinions of friends and relatives but now this is no longer limited to one s circle of friends family or small surveys it has spread globally to online social media in the form of blogs posts tweets social networking sites review sites and so on though not always easy the transition from surveys to social media is certainly lucrative business analytical reports have shown that many organizations have improved their sales marketing and strategy setting up new policies and making decisions based on opinion mining techniques

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