

The Applications of Intelligent Optimization Algorithms in Sentiment Analysis: A Deep and Systematic Study

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Abstract

It has been demonstrated that optimization algorithms is a method that can handle a variety of NP-hard (Non-deterministic Polynomial time) computational issues. It is becoming more and more popular for resolving various optimization issues. Today there is growing interest in intelligence methods for sentiment analysis to provide a quantifiable assessment of "positivity" or "negativity" about thoughts or social comments as a result of the World Wide Web's rapid expansion and the prevalence of online collaborative platforms. But the procedure of sentiment analysis and evaluation faces several difficulties. These issues are addressed by intelligent sentiment analysis, which automatically distinguishes between positive and negative user reviews. Hence, nature-inspired intelligent sentiment analysis algorithms are recently becoming an emerging research topic for developing new systems, as nature is an excellent source of inspiration. But as far as we know, there is no attempt to investigate the applications of nature-inspired intelligent sentiment analysis algorithms in the literature. In order to cover this research gap, this study presents a comprehensive literature evaluation. It gathers, explores, understands, and analyses the efforts and trends in a well-structured manner. We review a wide range of articles from various journals, conferences, book chapters, etc., to explain the current state of the art on these important algorithms as well as a comparative analysis of these algorithms. In contrast to previous reviews, we take a systematic strategy to locate, collect empirical data, interpret findings, critically assess, and integrate all relevant and excellent studies to address particular research issues about the specified research domain. The results showed that intelligent optimization algorithms bring significant accuracy gains. Also, these algorithms can converge quickly and produce better results in terms of complexity.

Keywords: Evolutionary algorithms • Entropy • Sentiment analysis • Entropy • Intelligent computing • Particle swarm optimization • Multi-objective optimization • Metaheuristic optimization algorithms

Introduction

Metaheuristic-based optimization algorithms utilize an easy and powerful approach to tackle issues related to optimization [1,2]. With a set of problem-independent techniques and the ability to comprehend higher-level algorithmic frameworks, meta-heuristics can be used to create optimized approaches [3,4]. Metaheuristic can be defined as a method to get a "good enough" solution in "small enough" computing time. Meta-heuristic algorithms give a better trade-off between exploration (global optima) as well as exploitation (local optima), along with solution quality and computing time [5,6]. Meta-heuristic algorithms are more dependable and effective than precise approaches because they can be adjusted to the demands of real-time optimization problems, produce better solutions with less computation time, and are not problem-specific, approximate, or deterministic [7,8]. Swarm intelligence, as a well-known subset of metaheuristics, is a wide range of techniques that

work based on artificial intelligence inspired by the cooperative behavior of basic organisms found in the wild. Its idea came from observations of the group behavior of various species, including birds, fish, bees, bacteria, ants, squirrels, and more [9]. Swarm intelligence algorithms are frequently employed in optimization issues. Optimization techniques could be applied to the feature selection problem to create the best possible feature set. Swarm intelligence techniques are employed in feature subset selection to decrease the feature subsets' computational complexity and dimensionality, improving classification accuracy [10]. However, population diversity is quickly lost when a standard swarm intelligence algorithm encounter challenging multi-peak problems, which causes the algorithm to prematurely converge. Dimension entropy is used to address this issue as a measure of population diversity. Entropy is a concept in thermodynamics. In 1948, Shannon put forward the concept [11]. The concept is that one can gauge how uncertain an information system is by calculating the probabilities of numerous separate, random discrete events. In an information system, information entropy is at its least when only one event occurs and at its maximum when the chance of occurring several discrete events is the same [12].

The World Wide Web (www) has recently become a great source of user-generated content. Twitter, Facebook, Google Plus, and many social media are available where people freely share their thoughts and feelings [13,14]. They do this through messaging or emojis, pictures, and videos. Undoubtedly, any decision-making process may benefit greatly from this constantly expanding subjective knowledge. Intelligent sentiment analysis was established to automate such data processing [15,16]. The systematic detection, extraction, quantification, and analysis of affective states and subjective data is known as intelligent sentiment analysis. It uses biometrics, computational linguistics, natural language processing, and text analysis. It is a method of expressing an individual's feelings or ideas in text form, which may be categorized as

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Marco Casella



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Treatise on Geomorphology ,2013-02-27 The changing focus and approach of geomorphic research suggests that the time is opportune for a summary of the state of discipline The number of peer reviewed papers published in geomorphic journals has grown steadily for more than two decades and more importantly the diversity of authors with respect to geographic location and disciplinary background geography geology ecology civil engineering computer science geographic information science and others has expanded dramatically As more good minds are drawn to geomorphology and the breadth of the peer reviewed literature grows an effective summary of contemporary geomorphic knowledge becomes increasingly difficult The fourteen volumes of this Treatise on Geomorphology will provide an important reference for users from undergraduate students looking for term paper topics to graduate students starting a literature review for their thesis work and professionals seeking a concise summary of a particular topic Information on the historical development of diverse topics within geomorphology provides context for ongoing research discussion of research strategies equipment and field methods laboratory experiments and numerical simulations reflect the multiple approaches to understanding Earth s surfaces and summaries of outstanding research questions highlight future challenges and suggest productive new avenues for research Our future ability to adapt to geomorphic changes in the critical zone very much hinges upon how well landform scientists comprehend the dynamics of Earth s diverse surfaces This Treatise on Geomorphology provides a useful synthesis of the state of the discipline as well as highlighting productive research directions that Educators and students researchers will find useful Geomorphology has advanced greatly in the last 10 years to become a very interdisciplinary field Undergraduate students looking for term paper topics to graduate students starting a literature review for their thesis work and professionals seeking a concise summary of a particular topic will find the answers they need in this broad reference work which has been designed and written to accommodate their diverse backgrounds and levels of understanding Editor in Chief Prof J F Shroder of the University of Nebraska at Omaha is past president of the QG G section of the Geological Society of America and present Trustee of the GSA Foundation while being well respected in the geomorphology research community and having won numerous awards in the field A host of noted international geomorphologists have contributed state of the art chapters to the work Readers can be guaranteed that every chapter in this extensive work has been critically reviewed for consistency and accuracy by the World expert Volume Editors and by the Editor in Chief himself No other reference work exists in the area of Geomorphology that offers the breadth and depth of information contained in this 14 volume masterpiece From the foundations and history of geomorphology through to geomorphological innovations and computer modelling and the past and future states of landform science no stone has been left unturned Algorithms for Optimization Mykel J. Kochenderfer, Tim A. Wheeler, 2019-03-26 A comprehensive introduction to optimization with a focus on practical algorithms for the design of engineering systems This book offers a comprehensive introduction to optimization with a focus on practical

algorithms The book approaches optimization from an engineering perspective where the objective is to design a system that optimizes a set of metrics subject to constraints Readers will learn about computational approaches for a range of challenges including searching high dimensional spaces handling problems where there are multiple competing objectives and accommodating uncertainty in the metrics Figures examples and exercises convey the intuition behind the mathematical approaches The text provides concrete implementations in the Julia programming language Topics covered include derivatives and their generalization to multiple dimensions local descent and first and second order methods that inform local descent stochastic methods which introduce randomness into the optimization process linear constrained optimization when both the objective function and the constraints are linear surrogate models probabilistic surrogate models and using probabilistic surrogate models to guide optimization optimization under uncertainty uncertainty propagation expression optimization and multidisciplinary design optimization Appendixes offer an introduction to the Julia language test functions for evaluating algorithm performance and mathematical concepts used in the derivation and analysis of the optimization methods discussed in the text The book can be used by advanced undergraduates and graduate students in mathematics statistics computer science any engineering field including electrical engineering and aerospace engineering and operations research and as a reference for professionals

Advanced Computational Methods for Knowledge Engineering Tien Do, Hoai An Le Thi, Ngoc Thanh Nguyen, 2014-04-11 The proceedings consists of 30 papers which have been selected and invited from the submissions to the 2nd International Conference on Computer Science Applied Mathematics and Applications ICCSAMA 2014 held on 8 9 May 2014 in Budapest Hungary The conference is organized into 7 sessions Advanced Optimization Methods and Their Applications Queueing Models and Performance Evaluation Software Development and Testing Computational Methods for Mobile and Wireless Networks Computational Methods for Knowledge Engineering Logic Based Methods for Decision Making and Data Mining and Nonlinear Systems and Applications respectively All chapters in the book discuss theoretical and practical issues connected with computational methods and optimization methods for knowledge engineering The editors hope that this volume can be useful for graduate and Ph D students and researchers in Computer Science and Applied Mathematics It is the hope of the editors that readers of this volume can find many inspiring ideas and use them to their research Many such challenges are suggested by particular approaches and models presented in individual chapters of this book

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