Patent Search

Invention Title	Graph theory based Objective measurement of attributes of website
Publication Number	44/2023
Publication Date	03/11/2023
Publication Type	INA
Application Number	202341044492
Application Filing Date	03/07/2023
Priority Number	
Priority Country	
Priority Date	
Field Of Invention	COMPUTER SCIENCE
Classification (IPC)	G06F0016958000, G01C0021340000, G06Q0010060000, G06F0016901000, G16B0020000000

Inventor

Name	Address	Country
Dr. Honnegowda C K	Assistant Professor, Department of Mathematics, Govt. First Grade College, K. R. Pete, Karnataka, India, Pincode: 571426	India
Mr. Satyanarayana Chilukuri	Associate Professor, Department of Mathematics, B V Raju College, Bhimavaram, Andhra Pradesh, India, Pincode: 534202	India
Mr. Pallerla Shantan Kumar	Assistant Professor, Department of Mathematics, Institute of Aeronautical Engineering, Dundigal, Hyderabad, Telangana, India, Pincode: 500043	India
Dr. K.V. Suryanarayana Rao	Professor, Department of Mathematics, Rajeev Gandhi Memorial College of Engineering and Technology, Nandyal, Andhra Pradesh, India, Pincode: 518501	India
Dr. Nellore Manoj Kumar	Independent Researcher, Infinite-Research, Founder and CEO, B.O. 15-225, Gollapalem, Venkatagiri, Tirupati District, Andhra Pradesh, India, Pincode: 524132	India
Dr. Kotla Revathi	Course Co-Ordinator & Assistant Professor, Department of Mathematics, Adikavi Nannaya University, Rajamahendravaram, Andhra Pradesh, India, Pincode: 533101	India
Dr.K.Srinivasan	Assistant Professor, Department of Mathematics, VISTAS, Pallavaram, Chennai, Tamilnadu, India, Pincode: 600117	India
Mrs. Akkaraju Lalitha	Adjunct Faculty, Faculty of Management and Commerce, PES University, Bengaluru, Karnataka, India, Pincode: 560085	India
Mr. A Kiran Kumar	Assistant Professor, Department of Engineering Mathematics and Humanities, S.R.K.R. Engineering College, Bhimavaram, Andhra Pradesh, India, Pincode: 534202	India

Applicant

Name	Address	Country
Dr. Honnegowda C K	Assistant Professor, Department of Mathematics, Govt. First Grade College, K. R. Pete, Karnataka, India, Pincode: 571426	India
Mr. Satyanarayana Chilukuri	Associate Professor, Department of Mathematics, B V Raju College, Bhimavaram, Andhra Pradesh, India, Pincode: 534202	India
Mr. Pallerla Shantan Kumar	Assistant Professor, Department of Mathematics, Institute of Aeronautical Engineering, Dundigal, Hyderabad, Telangana, India, Pincode: 500043	India
Dr. K.V. Suryanarayana Rao	Professor, Department of Mathematics, Rajeev Gandhi Memorial College of Engineering and Technology, Nandyal, Andhra Pradesh, India, Pincode: 518501	India
Dr. Nellore Manoj Kumar	Independent Researcher, Infinite-Research, Founder and CEO, B.O. 15-225, Gollapalem, Venkatagiri, Tirupati District, Andhra Pradesh, India, Pincode: 524132	India
Dr. Kotla Revathi	Course Co-Ordinator & Assistant Professor, Department of Mathematics, Adikavi Nannaya University, Rajamahendravaram, Andhra Pradesh, India, Pincode: 533101	India
Dr.K.Srinivasan	Assistant Professor, Department of Mathematics, VISTAS, Pallavaram, Chennai, Tamilnadu, India, Pincode: 600117	India
Mrs. Akkaraju Lalitha	Adjunct Faculty, Faculty of Management and Commerce, PES University, Bengaluru, Karnataka, India, Pincode: 560085	India
Mr. A Kiran Kumar	Assistant Professor, Department of Engineering Mathematics and Humanities, S.R.K.R. Engineering College, Bhimavaram, Andhra Pradesh, India, Pincode: 534202	India

Abstract:

The invention relates to a system and method for evaluating various attributes of a website using principles of graph theory. The website is modelled as a graph with as nodes and hyperlinks as edges. The graph-based system and method, termed as the Graph-Based Website Evaluation System (GBWES), assesses attributes such a structure, navigation efficiency, page connectivity, content organization, user interaction, and accessibility. This comprehensive evaluation results in quantifiable score attribute and an aggregate score for the overall website. Furthermore, GBWES provides actionable recommendations based on the graph analysis and can predict po navigation paths. The system sets a new standard in website analysis and optimization, facilitating the development of more user-friendly and effective websites.

Complete Specification

Description:The present invention generally relates to the field of website analysis and quality measurement. More particularly, the invention pertains to an innovat system and method for quantifying the attributes of a website using principles of graph theory, providing an objective evaluation of website effectiveness. The inver leverages algorithms based on graph theory for scoring various elements and attributes of a website such as its structure, navigation efficiency, page connectivity, c organization, user interaction, and overall accessibility. It further entails the use of these objective measurements to improve and optimize website design and func enhancing user experience and satisfaction.

Background of the invention:

In the present digital age, websites are ubiquitous and play a critical role in a wide array of activities, including commerce, education, entertainment, social networki countless others. The effectiveness of a website, in terms of delivering its intended purpose, is significantly influenced by various attributes such as its design, conte structure, usability, and accessibility. As such, objective evaluation and measurement of these attributes are crucial for improving and optimizing a website's perfor and user experience.

Existing methods of evaluating website attributes often rely on subjective judgments or relatively simple heuristics. For example, user surveys and expert reviews ha been widely used to assess the perceived quality of a website. However, these methods are typically subjective and can vary greatly depending on individual prefere expertise, and experiences of the reviewers. Additionally, heuristic evaluation methods, while providing some level of objectivity, may not accurately represent the c interactions and structures found in modern websites. These limitations underscore the need for a more robust and objective approach for assessing the attributes website

View Application Status