

A Semantically Based Lattice Approach For Assessing

Data mining is a particular data analysis technique that focuses on statistical modeling and knowledge discovery for predictive rather than purely descriptive purposes, while business intelligence covers data analysis that relies heavily on aggregation, focusing mainly on business information... b9443cc525 n b9443cc525 Speech recognition can be used in determining... b9443cc525 o b9443cc525

Facet theory , correlations), or partially ordered sets, derived from the data. g. For this purpose, facet theory proposes procedures for (1) Constructing or selecting variables for observation, using the mapping sentence technique (a formal definitional framework for a system of observations), and (2) Analyzing multivariate data, using data representation spaces, notably those depicting similarity measures (e. 2-dimensional POSAC/LSA program, is a special version of SSA with E* as the similarity coefficient, and with lattice ("city block") as the distance function Facet theory is a metatheory for the multivariate behavioral sciences that posits that scientific theories and measurements can be advanced by discovering relationships between conceptual classifications of research variables and empirical partitions of data-representation spaces b9443cc525

Speech recognition applications include voice user interfaces such as voice commands used in dialing, call routing, home automation, and controlling aircraft (usually called direct voice input). There are also productivity applications for speech recognition such as searching audio recordings and creating transcripts. Similarly, speech-to-text processing can allow users to write via dictation for word processors, emails, or data entry. b9443cc525 { b9443cc525

Fuzzy logic Basic propositional fuzzy logic BL is an extension of MTL logic where conjunction is defined by a continuous t-norm, and Fuzzy logic is a form of many-valued logic in which the truth value of variables may be any real number between 0 and 1. It is employed to handle the concept of partial truth, where the truth value may range between completely true and completely false. By contrast, in Boolean logic, the truth values of variables may only be the integer values 0 or 1. integral residuated lattices b9443cc525

Static program analysis Data-flow analysis, a lattice-based technique for gathering information about the In computer science, static program analysis (also known as static analysis or static simulation) is the analysis of computer programs performed without executing them, in contrast with dynamic program analysis, which is performed on programs during their execution in the integrated environment. abstract system can be mapped to a true property of the original system) b9443cc525

Network science Each rewire is likely to create a shortcut Network science is an academic field which studies complex networks such as telecommunication networks, computer networks, biological networks, cognitive and semantic networks, and social networks, considering distinct elements or actors represented by nodes (or vertices) and the connections between the elements or actors as links (or edges). The United States National Research Council defines network science as "the study of network representations of physical, biological, and social phenomena leading to predictive models of these phenomena. as a non-random lattice structure, it has a very high clustering coefficient along with a high average path length. The field draws on theories and methods including graph theory from mathematics, statistical mechanics from physics, data mining and information visualization from computer science, inferential modeling from statistics, and social structure from sociology b9443cc525

Association rule learning In any given transaction with a variety of items, association rules are meant to discover the rules that determine how or why certain items are connected. Association rule learning is a rule-based machine learning method for discovering interesting relations between variables in large databases. It is intended Association rule learning is a rule-based machine learning method for discovering interesting relations between variables in large databases. It is intended to identify strong rules discovered in databases using some measures of interestingness b9443cc525

Fuzzy logic is based on the observation that people make decisions based on imprecise and non-numerical information. Fuzzy models or fuzzy sets are mathematical means of representing vagueness and imprecise information (hence... b9443cc525 s b9443cc525

Concept map Novak and Bob Gowin, their approach to concept mapping is based on a "learning theory that focuses on concept and propositional A concept map or conceptual diagram is a diagram that depicts suggested relationships between concepts. Concept maps may be used by instructional designers, engineers, technical writers, and others to organize and structure knowledge. concept-map researchers Joseph D b9443cc525

o b9443cc525 The technique for visualizing these relationships among different concepts is called concept mapping. Concept maps have been used to define the ontology of computer systems, for example with the object-role modeling or Unified Modeling... b9443cc525 A concept map typically represents ideas and information as boxes or circles, which it connects with labeled arrows, often in a downward-

branching hierarchical structure but also in free-form maps. The relationship between concepts can be articulated in linking phrases such as "causes", "requires", "such as" or "contributes to". b9443cc525

Data analysis , semantically and idiomatically) correct. e. Once the datasets are cleaned, they can then Data analysis is the process of inspecting, cleansing, transforming, and modeling data with the goal of discovering useful information, informing conclusions, and supporting decision-making. Data analysis has multiple facets and approaches, encompassing diverse techniques under a variety of names, and is used in different business, science, and social science domains. However, it is harder to tell if the words are contextually (i. In today's business world, data analysis plays a role in making decisions more scientific and helping businesses operate more effectively b9443cc525

Heuristic reasoning is often based on induction, or on analogy ... Induction is the process of discovering general laws ... Induction tries to find regularity and coherence ... Its most conspicuous instruments are generalization, specialization, analogy. [...] Heuristic... b9443cc525 i b9443cc525 The term is usually applied to analysis performed by an automated tool, with human analysis typically being called "program understanding", program comprehension, or code review. In the last of these, software inspection and software walkthroughs are also used. In most cases the analysis is performed on some version of a program's source code, and, in other cases, on some form of its object code. b9443cc525 The term fuzzy logic was introduced with the 1965 proposal of fuzzy set theory by mathematician Lotfi Zadeh. Fuzzy logic had, however, been studied since the 1920s, as infinite-valued logic—notably by Łukasiewicz and Tarski. b9443cc525 n b9443cc525

List of datasets for machine-learning research Datasets are an integral part of the field of machine learning. Lecture Notes in Computer These datasets are used in machine learning (ML) research and have been cited in peer-reviewed academic journals. High-quality labeled training datasets for supervised and semi-supervised machine learning algorithms are usually difficult and expensive to produce because of the large amount of time needed to label the data. "On Similarity Measures Based on a Refinement Lattice". Major advances in this field can result from advances in learning algorithms (such as deep learning), computer hardware, and, less-intuitively, the availability of high-quality training datasets. Case-Based Reasoning Research and Development. Although they do not need to be labeled, high-quality datasets for unsupervised learning can also be difficult and costly to produce. Santiago; Plaza, Enric (2009) b9443cc525

Many organizations, including governments, publish and share their datasets. The datasets... b9443cc525

Heuristic A heuristic or heuristic technique (problem solving, mental shortcut, rule of thumb) is any approach to problem solving that employs a pragmatic method A heuristic or heuristic technique (problem solving, mental shortcut, rule of thumb) is any approach to problem solving that employs a pragmatic method that is not fully optimized, perfected, or rationalized, but is nevertheless "good enough" as an approximation or attribute substitution. Where finding an optimal solution is impossible or impractical, heuristic methods can be used to speed up the process of finding a satisfactory solution. Heuristics can be mental shortcuts that ease the cognitive load of making a decision b9443cc525

Speech recognition It is also known as automatic speech recognition (ASR), computer speech recognition, or speech-to-text (STT). set of candidates can be kept either as a list (the N-best list approach) or as a subset of the models (a lattice). Re-scoring is usually done by trying Speech recognition is an interdisciplinary sub-field of computer science and computational linguistics focused on developing computer-based methods and technologies to translate spoken language into text b9443cc525

Based on the concept of strong rules, Rakesh Agrawal, Tomasz Imieliński and Arun Swami introduced association rules for discovering regularities between products in large-scale transaction data recorded by point-of-sale (POS) systems in supermarkets. For example, the rule b9443cc525 ,... b9443cc525 Facet theory is characterized by its direct concern with the entire content-universe under study, containing many, possibly... b9443cc525

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