

# Epub free An ontological framework for representing topological Full PDF

in this paper we subdivide the topological part boundary into face edge and vertex and propose a 25 intersection model 25im to represent topological relations between two simple spatial objects point line region and body in 3 d space metric details for line line topological relations are elaborated a topological relation model between lines considering metric details trm md including the length ratio and the number of endpoints ratio is proposed in this article abstract a topological relation may be described by different words and the significance of topological relation models lies in clarifying the semantics of topological relations among different users metric details beyond topological relations can help enhance topological relations with qualitative metric information the most popular models of spatial topological relations are region connection calculus rcc and 9 intersection model however there are few contributions on topological relations of concave regions in which the representative model is cohn s rcc23 topological relationships are those remaining invariant under a topological isomorphism to define topological relationships the following set of operations is used boundary 0 interior exterior set intersection a and dimension dim in this paper we introduce the concepts of first countability second countability density separability and lindelof property for i fuzzy topological spaces and study their properties and the relationships between them in the field of spatial information systems a primary need is to develop a sound theory of topological relationships between spatial objects a category of formal methods for representing topological relationships is based on point set theory this paper proposes a unified model d9 intersection model to represent topological relations between regions with holes d9 intersection model can describe simple regional relations as accurately as 9 intersection model a comprehensive view of state of the art models for topological relations in spatial databases is proposed which offers a classification of all topological invariants of a spatial relation between two features offers the tools to describe the finest topological details the nrs represents the spatial relations by two data models one is a combinatorial data model cdm which is a logical data model to represent topological relations of 3d objects the other is a geometric network model gnm to implement spatial accesses in the nrs using searching path algorithms the 3d topological data model is called the combinatorial data model cdm it is a logical data model that simplifies and abstracts the complex topological relationships among 3d features through a hierarchical network structure called the node relation structure nrs determining the spatial relations between objects is a primary function of a geographic information system gis one important aspect of spatial relations is topological relations which remain constant under topological transformations the cbm allows us to model the topology of two spatial objects represented as simple two dimensional 2 d geometric elements namely points lines and areas in terms of five relationships i e in overlap cross touch and disjoint and three boundary operators the purpose of the dgm is to define the topological relationships adjacency and connectivity relationships between 3d spatial entities in built environments for representing the relationships in 3d node relation structure this research explores a new way of representing the topological relationships among 3d geographical features such as buildings and their internal partitions or subunits through a hierarchical network structure called the node relation structure nrs topological sorting is a dependency problem in which completion of one task depends upon the completion of several other tasks whose order can vary let us understand this concept via an example suppose our task is to reach our school and in order to reach there first we need to get dressed a proposed

topological relation model between two dls in a cyclic space with a 4 4 matrix can well represent the topological relations between dls and the proposed 11 negative conditions can be used to prove the completeness of the 38 topological relations deep learning based topological optimization for representing a user specified design area keigo nakamura yoshiro suzuki presently topology optimization requires multiple iterations to create an optimized structure for given conditions relating to the way the parts of something are organized or connected the model uses six basic topological relationships computer aided design makes extensive use of topological concepts the mirror image of the pattern gives a different topologic arrangement fewer examples the meaning of topological is of or relating to topology how to use topological in a sentence

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the purpose of the dgm is to define the topological relationships adjacency and connectivity relationships between 3d spatial entities in built environments for representing the relationships in 3d node relation structure

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this research explores a new way of representing the topological relationships among 3d geographical features such as buildings and their internal partitions or subunits through a hierarchical network structure called the node relation structure nrs

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