

graph theoretic concepts in pdf

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GRAPH THEORY - TUT

In the mathematical area of graph theory, a clique (/ ˈ ɛː k l i ˈ ɛ • k / or / ˈ ɛː k l i ˈ ɛ a k /) is a subset of vertices of an undirected graph such that every two distinct vertices in the clique are adjacent; that is, its induced subgraph is complete. Cliques are one of the basic concepts of graph theory and are used in many other mathematical problems and constructions on graphs.

Clique (graph theory) - Wikipedia

In graph theory and computer science, an adjacency matrix is a square matrix used to represent a finite graph. The elements of the matrix indicate whether pairs of vertices are adjacent or not in the graph. In the special case of a finite simple graph, the adjacency matrix is a (0,1)-matrix with zeros on its diagonal. If the graph is undirected, the adjacency matrix is symmetric.

Adjacency matrix - Wikipedia

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Multiagent Systems: Algorithmic, Game-Theoretic, and

The intension of this note is to introduce the subject of graph theory to computer science students in a thorough way. This note will cover all elementary concepts such as coloring, covering, hamiltonicity, planarity, connectivity and so on, it will also introduce the students to some advanced concepts.

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Comput Math Organiz Theor (2006) 12: 21â€“34 DOI 10.1007/s10588-006-7084-x Identifying sets of key players in a social network Stephen P. Borgatti

Identifying sets of key players in a social network

Anomaly Detection: Anomaly detection has been greatly revised and expanded. Existing approachesâ€“statistical, nearest neighbor/density-based, and clustering basedâ€“have been retained and updated, while new approaches have been added: reconstruction-based, one-class classification, and information-theoretic.

Introduction to Data Mining - www-users.cs.umn.edu

This book presents a unified treatment of many different kinds of planning algorithms. The subject lies at the crossroads between robotics, control theory, artificial intelligence, algorithms, and computer graphics.

Planning Algorithms / Motion Planning

Learn how to model social and economic networks and their impact on human behavior. How do networks form, why do they exhibit certain patterns, and how does their structure impact diffusion, learning, and other behaviors? We will bring together models and techniques from economics, sociology, math ...

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