Telecommunications Optimization. Heuristic and Adaptive Techniques

Description: Written in an accessible and easy-to-read style, this cutting-edge book presents advanced solutions to current and future telecommunications optimization problems. The field of telecommunications is growing and changing ever more rapidly, presenting new real-world problems for optimization researchers to address. Telecommunications engineers tend to know all about the problems involved but are often not aware of developments in computer science and artificial intelligence that might solve those problems. This unique book takes a collaborative approach describing the essence of the problems and then the heuristic and adaptive techniques which are now recognised as adept at solving these problems. In addition the emerging technologies in telecommunications and increasing use of the Internet expand the role that advanced heuristic and adaptive methods can play.

Topics covered include:

- Heuristic techniques covering local search methods and population-based search techniques
- Adaptive computation techniques covering neural computation, fuzzy logic and game theory
- Practical and successful ways to address problems in network design and planning, routing, protocol design and network management

This state-of-the-art book will be an essential resource for optimization researchers needing a wider appreciation of the problems in telecommunications, and indispensable for telecommunications engineers using heuristic and adaptive techniques.

Contents:


NETWORK PLANNING AND DESIGN.

- Evolutionary Methods for the Design of Reliable Networks.
- Tabu Search and Evolutionary Scatter Search for 'Tree-Star' Network Problems, with Applications to Leased Line Network Design.
- Node-Pair Encoding Genetic Programming for Optical Mesh Network Topology Design.
- Optimizing The Access Network.

ROUTING AND PROTOCOLS.

The Genetic Adaptive Routing Algorithm.
Optimization of Restoration and Routing Strategies.
GA-based Verification of Network Protocols Performance.
Neural Networks for the Optimization of Runtime Adaptable Communication Protocols.
SOFTWARE, STRATEGY AND TRAFFIC MANAGEMENT.
Exploring Evolutionary Approaches to Distributed Database Management.
The Automation of Software Validation using Evolutionary Computation.
Evolutionary Game Theory Applied to Service Selection and Network Ecologies.
Intelligent Flow Control Under Game Theoretic Framework.
Global Search Techniques for problems in Mobile Communications.
An Effective Genetic Algorithm for Fixed Channel Assignment.
References.
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