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	Soggetti	Algorithms
		Computer engineering
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		Design and Analysis of Algorithms
		Computer Engineering and Networks
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	Nota di contenuto	Maritime and Port Logistics An Integrated Planning, Scheduling, Yard Allocation and Berth Allocation Problem in Bulk Ports: Model and Heuristics -- Simulation of an AIS System for the Port of Hamburg -- Designing the Hydrogen Supply Chain for Maritime Transportation in Norway -- Destination Prediction of Oil Tankers Using Graph Abstractions and Recurrent Neural Networks -- Scheduling Drillships in Offshore Activities -- Solving a Real-Life Tramp Ship Routing and Scheduling Problem with Speed Profiles -- Optimizing Maritime Preparedness under Uncertainty - Locating Tugboats along the Norwegian Coast -- Supply Chain and Production Management Layout-Agnostic Order Batching Optimization -- Automated Negotiation for Supply Chain Finance -- Production Scheduling with Stock- and Staff-

related Restrictions -- Chances of Interpretable Transfer Learning for Human Activity Recognition in Warehousing -- A Multi-Periodic Modelling Approach for Integrated Warehouse Design and Product Allocation -- New Valid Inequalities for a Multi-echelon Multi-item Lot-sizing Problem with Returns and Lost Sales -- Interactive Multiobjective Optimization in Lot Sizing with Safety Stock and Safety Lead Time -- The Craft Beer Game and the Value of Information Sharing -- Smarter Relationships? The Present and Future Scope of AI Application in Buyer-Supplier Relationships -- The Effect of Order Batching on a Cyclical Order Picking System -- Bi-Objective Optimization for Joint Production Scheduling and Distribution Problem with Sustainability -- On the Effect of Product Demand Correlation on the Storage Space Allocation Problem in a Fast-Pick Area of a Warehouse -- Urban Transport and Collaborative Logistics Real-Time Dispatching with Local Search Improvement for Dynamic Ride-Sharing -- A Learning and Optimization Framework for Collaborative Urban Delivery Problems with Alliances -- Analysis of Schedules for Rural First and Last Mile Microtransit Services -- The Share-A-Ride Problem with Integrated Routing and Design Decisions: The Case of Mixed-Purpose Shared Autonomous Vehicles -- Algorithms for the Design of Round-trip Carsharing Systems with a Heterogeneous Fleet -- Exact Separation Algorithms for the Parallel Drone Scheduling Traveling Salesman Problem -- A Multi-Start VNS Algorithm for the TSP-D with Energy Constraints -- Formal Methods to Verify and Ensure Self-Coordination Abilities in the Internet of Vehicles -- Routing, Dispatching, and Scheduling Equipment Dispatching Problem for Underground Mine Under Stochastic Working Times -- Bhar Layeb Vertical Stability Constraints in Combined Vehicle Routing and 3D Container Loading Problems -- Automated Tour Planning for Driving Service of Children with Disabilities: A Web-Based Platform and a Case Study -- A Multi-objective Biased Random-Key Genetic Algorithm for Service Technician Routing and Scheduling Problem -- Optimization of Green Pickup and Delivery Operations in Multi-Depot Distribution Problems -- Solving the Shipment Rerouting Problem with Quantum Optimization Techniques -- Improving the Location of Roadside Assistance Resources through Incident Forecasting -- Solving a Multi-Objective Vehicle Routing Problem with Synchronization Constraint -- Air Logistics and Multi-modal Transport Analysis of the Impact of Physical Internet on the Container Loading Problem -- Applying Constraint Programming to the Multi-Mode Scheduling Problem in Harvest Logistics -- Tackling Uncertainty in Online Multimodal Transportation Planning using Deep Reinforcement Learning.

| Sommario/riassunto | This book constitutes the refereed proceedings of the 12th International Conference on Computational Logistics, ICCL 2021, held in September 2021. Due to COVID-19 pandemic the conference was held virtually. The 42 full papers were carefully reviewed and selected from 111 submissions. They detail the interface of complex logistics systems and advanced computational methods from the fields of operations research, business analytics, and artificial intelligence. The papers are organized in topical sections named maritime and port logistics; supply chain and production management; urban transport and collaborative logistics; routing, dispatching, and scheduling; air logistics and multi-modal transport. |