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# Computational Logistics 6th International Conference Iccl 2015 Delft The Netherlands September 23 25 2015 Proceedings Lecture Notes In Computer Science

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Computational Logistics

Computational Science - ICCS 2021

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Information Systems, Logistics, and Supply Chain

Sustainable Freight Transport

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Computational Methods and Models for Transport

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## **BRAYDON YOSLIN**

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Computational Logistics Springer Nature

This book presents the latest technologies and operational methods available to support sustainable freight transport

practices. It highlights market requirements, cutting edge applications, and case studies from innovators in the logistics services industry. The goal is to help bridge the gap between advanced computational techniques and complex applied problems such as those in sustainable transport and logistics operations. Freight transport has traditionally focused on costs and service levels. However, it is no longer possible or socially responsible to neglect the environmental, social, climate, and energy implications of the freight moving globally. This book

places sustainability at the forefront of the freight transport agenda. *Sustainable Freight Transport: Theory, Models and Case Studies* is divided into three sections. Section I focuses on green freight transport policies for air and marine ports. Section II is devoted to using modelling techniques and optimization for achieving sustainable freight transport, while Section III examines policies to support sustainable freight transport practices in urban areas. The contributions come from authors from different areas, backgrounds, and countries to cover a global perspective. *Computational Science - ICCS 2021* Springer

This book constitutes the refereed proceedings of the 6th International Conference on Computational Logistics, ICCL 2015, held in Delft, The Netherlands, in September 2015. The 50 papers presented in this volume were carefully reviewed and selected for inclusion in the book. They are organized in topical sections entitled: transport over ground, transport over water, international coordination within a system, external coordination among systems.

*Computational Logistics* Taylor & Francis

This book constitutes the refereed proceedings of the Third International Conference on Computational Logistics, held in Shanghai, China, in September 2012. The 15 revised full papers presented were carefully reviewed and selected from various submissions. The papers are organized in topical sections on maritime shipping; logistics and supply chain management; planning and operations; and case studies.

*Computational Logistics* Springer

There have been important developments in commercial practice, technology, shipping infrastructure and sustainability

policies in recent times. This Research Handbook examines the major themes surrounding the thinking and studies of maritime law and practice. The stellar panel of contributors take a diverse range of approaches to identify any emerging theoretical and conceptual perspectives in law on what is essentially a fast paced sector of the global economy.

*Information Systems, Logistics, and Supply Chain* Springer

This book constitutes the refereed proceedings of the 8th International Conference on Computational Logistics, ICCL 2017, held in Southampton, UK, in October 2017. The 38 papers presented in this volume were carefully reviewed and selected for inclusion in the book. They are organized in topical sections entitled: vehicle routing and scheduling; maritime logistics; synchromodal transportation; and transportation, logistics and supply chain planning.

*Sustainable Freight Transport* Springer Nature

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.

*Information Systems, Logistics, and Supply Chain* Springer

### Nature

This book constitutes the refereed proceedings of the 13th International Conference on Computational Logistics, ICCL 2023, held in Berlin, Germany, during September 6-8, 2023. The 32 full papers presented in this volume were carefully reviewed and selected from 71 submissions. They are grouped into the following topics: computational logistics; maritime shipping; vehicle routing; traffic and transport; and combinatorial optimization.

### *Computational Logistics* Springer Science & Business Media

This book constitutes revised selected papers from the 6th International Conference on Information Systems, Logistics, and Supply Chains, ILS 2016, held in Bordeaux, France, in June 2016. The conference deals with topics related to supply chain design and management, information and decision-making systems, and innovative practices in logistics. It also encompasses issues such as sustainability, societal impact, uncertainty, and collaboration in supply chain management. The 13 full papers presented were carefully reviewed and selected for inclusion in this volume and reflect the diverse challenges and opportunities experienced in logistics, information and supply chain management. They were organized in topical sections named: transportation and logistics; supply chain planning; collaboration and operations in supply chain; and applications of supply chain topics to business environments (case studies).

### Computational Logistics Springer Nature

This book constitutes the refereed proceedings of the 6th International Conference on Computational Logistics, ICCL 2015, held in Delft, The Netherlands, in September 2015. The 50 papers

presented in this volume were carefully reviewed and selected for inclusion in the book. They are organized in topical sections entitled: transport over ground, transport over water, international coordination within a system, external coordination among systems.

### *Computational Logistics* Springer Nature

Easy access to digital information in every form is something which has become indispensable given our ever-increasing reliance on digital technology. But such access would not be possible without the reliable and effective infrastructure which has led to the large-scale development of web technologies. This book presents the 27 papers delivered at the 6th International Conference on Applications of Digital Information and Web Technologies (ICADIWT), held in February 2015, at the University of Macau, Macau. The book is divided into seven sections: Internet communication, human-computer interaction, adaptive web applications, data communication, cloud computing, systems engineering, and data mining. Since each paper is a survey contributed by different experts from very many countries, this book can be seen as a collection of the current research trends in the field and hence it will be of interest to all those whose work involves digital information and web technology.

### **Computational Logistics** CRC Press

This book introduces the advances in synchromodal logistics and provides a framework to classify various optimisation problems in this field. It explores the application of this framework to solve a broad range of problems, such as problems with and without a central decision-maker, problems with and without full information, deterministic problems, problems coping with

uncertainty, optimisation of a full network design problem. It covers theoretical constructs, such as discrete optimisation, robust optimisation, optimisation under uncertainty, multi-objective optimisation and agent based equilibrium models. Moreover, practical elaborated use cases are presented to deepen understanding. The book gives both researchers and practitioners a good overview of the field of synchronodal optimisation problems and offers the reader practical methods for modelling and problem-solving.

*Computational Methods and Models for Transport* Springer

The six-volume set LNCS 12742, 12743, 12744, 12745, 12746, and 12747 constitutes the proceedings of the 21st International Conference on Computational Science, ICCS 2021, held in Krakow, Poland, in June 2021.\* The total of 260 full papers and 57 short papers presented in this book set were carefully reviewed and selected from 635 submissions. 48 full and 14 short papers were accepted to the main track from 156 submissions; 212 full and 43 short papers were accepted to the workshops/ thematic tracks from 479 submissions. The papers were organized in topical sections named: Part I: ICCS Main Track Part II: Advances in High-Performance Computational Earth Sciences: Applications and Frameworks; Applications of Computational Methods in Artificial Intelligence and Machine Learning; Artificial Intelligence and High-Performance Computing for Advanced Simulations; Biomedical and Bioinformatics Challenges for Computer Science Part III: Classifier Learning from Difficult Data; Computational Analysis of Complex Social Systems; Computational Collective Intelligence; Computational Health Part IV: Computational Methods for Emerging Problems in (dis-)Information Analysis;

Computational Methods in Smart Agriculture; Computational Optimization, Modelling and Simulation; Computational Science in IoT and Smart Systems Part V: Computer Graphics, Image Processing and Artificial Intelligence; Data-Driven Computational Sciences; Machine Learning and Data Assimilation for Dynamical Systems; MeshFree Methods and Radial Basis Functions in Computational Sciences; Multiscale Modelling and Simulation Part VI: Quantum Computing Workshop; Simulations of Flow and Transport: Modeling, Algorithms and Computation; Smart Systems: Bringing Together Computer Vision, Sensor Networks and Machine Learning; Software Engineering for Computational Science; Solving Problems with Uncertainty; Teaching Computational Science; Uncertainty Quantification for Computational Models \*The conference was held virtually.

Computational Logistics IOS Press

This book constitutes the proceedings of the 10th International Conference on Computational Logistics, ICCL 2019, held in Barranquilla, Colombia, in September/October 2019. The 27 papers included in this book were carefully reviewed and selected from 49 submissions. They were organized in topical sections named: freight transportation and urban logistics; maritime and port logistics; vehicle routing problems; network design and distribution problems; and selected topics in decision support systems and ICT tools.

**Decarbonizing Freight Transport** Springer

This book constitutes the proceedings of the 10th International Conference on Computational Logistics, ICCL 2019, held in Barranquilla, Colombia, in September/October 2019. The 27 papers included in this book were carefully reviewed and selected

from 49 submissions. They were organized in topical sections named: freight transportation and urban logistics; maritime and port logistics; vehicle routing problems; network design and distribution problems; and selected topics in decision support systems and ICT tools.

### **Computational Logistics** Springer

This book constitutes the refereed proceedings of the 7th International Conference on Computational Logistics, ICCL 2016, held in Lisbon, Portugal, in September 2016. The 29 papers presented in this volume were carefully reviewed and selected for inclusion in the book. They are organized in topical sections entitled: container terminals and maritime transportation; intermodal transport; location and routing; (general) logistics and supply chain management.

### *Computational Logistics* Springer Science & Business Media

This book provides a complete picture of several decision support tools for predictive maintenance. These include embedding early anomaly/fault detection, diagnosis and reasoning, remaining useful life prediction (fault prognostics), quality prediction and self-reaction, as well as optimization, control and self-healing techniques. It shows recent applications of these techniques within various types of industrial (production/utilities/equipment/plants/smart devices, etc.) systems addressing several challenges in Industry 4.0 and different tasks dealing with Big Data Streams, Internet of Things, specific infrastructures and tools, high system dynamics and non-stationary environments. Applications discussed include production and manufacturing systems, renewable energy production and management, maritime systems, power plants

and turbines, conditioning systems, compressor valves, induction motors, flight simulators, railway infrastructures, mobile robots, cyber security and Internet of Things. The contributors go beyond state of the art by placing a specific focus on dynamic systems, where it is of utmost importance to update system and maintenance models on the fly to maintain their predictive power.

### Computational Logistics Springer

Welcome to the proceedings of the Sixth International Conference on Management Science and Engineering Management (ICMSEM2012) held from November 11 to 14, 2012 at Quaid-i-Azam University, Islamabad, Pakistan and supported by Sichuan University (Chengdu, China), Quaid-i-Azam University (Islamabad, Pakistan) and The National Natural Science Foundation of China. The International Conference on Management Science and Engineering Management is the annual conference organized by the International Society of Management Science and Engineering Management. The goals of the Conference are to foster international research collaborations in Management Science and Engineering Management as well as to provide a forum to present current research results. The papers are classified into 8 sections: Computer and Networks, Information Technology, Decision Support System, Industrial Engineering, Supply Chain Management, Project Management, Manufacturing and Ecological Engineering. The key issues of the sixth ICMSEM cover various areas in MSEM, such as Decision Support System, Computational Mathematics, Information Systems, Logistics and Supply Chain Management, Relationship Management, Scheduling and Control, Data Warehousing and

Data Mining, Electronic Commerce, Neural Networks, Stochastic models and Simulation, Heuristics Algorithms, Risk Control, and Carbon Credits.

Dynamics in Logistics Springer Nature

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.

Computational Logistics Springer Nature

Seaport Container Terminals (SCT) operate as central nodes in worldwide hub-and-spoke networks, and link ocean-going vessels with smaller feeder vessels, as well as with inbound and outbound hinterland transportation systems using road, rail, or inland waterways. The volume of transcontinental container flows has gained enormously over the last five decades frequently

leading to double-digit annual growth rates for the SCT. The 2nd edition of the Handbook of Terminal Planning also deals with problems being induced by questions of terminal development on a long-term basis (strategic level). Facing present and upcoming challenges for SCT operation—such as more and more mega vessels, extremely high hinterland peaks, higher environmental standards, less public acceptance and the stronger competition between terminals serving the same hinterland—the focus of the book is on successful approaches and solutions primarily addressing the planning of terminal structures. Nevertheless, operational aspects are considered, as well as how they effectively contribute to problem solving on the strategic level. *Proceedings of the 6th CIRP-Sponsored International Conference on Digital Enterprise Technology* Springer

This book constitutes the proceedings of the 11th International Conference on Computational Logistics, ICCL 2020, held in Enschede, The Netherlands, in September 2020. The 49 papers included in this book were carefully reviewed and selected from 73 submissions. They were organized in topical sections named: maritime and port logistics; vehicle routing and scheduling; freight distribution and city logistics; network design and scheduling; and selected topics in logistics. Due to the Corona pandemic ICCL 2020 was held as a virtual event.

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