**Title of poster for IPIC 2021 Conference**

Author 11 and Author 2,2

1. Affiliation, city, Country
2. Affiliation, city, Country

Corresponding author: address email

**Keywords:** *The abstract should also include 3 to 10 keywords, size 12, in italic. Some suggestions from previous conference in the Annex*

**Conference Topic:** *Select the conference topic(s) of the conference that your article refers too. Conference topics are found in the call for contributions document. Please include the topic(s) that are mainly addressed by the article.*

# Poster abstract

The abstract aims to synthesize the overall contribution of the presentation in a way that is crisp, clear and engaging for the professional and scientific readers interested in the Physical Internet, yet not necessarily in touch with the latest advances in your field. It should highlight key results and avoid being hermetic and too technically oriented. Figures and tables may be added as deemed pertinent. This abstract will be part of the proceedings of the conference and the primary source of information to the potential audience.

The abstract must be written in English and it should be at most 200 words long. In order to achieve rapid publication, the texts will be registered directly from authors’ version. Authors are therefore fully responsible for the quality of their abstract. Authors are strongly advised to have their final draft read by at least two other persons fluent in English before submitting the final version via Easy Chair website: <https://easychair.org/conferences/?conf=ipic2021> before **April 1st, 2021**.

### Printing format

Abstract must be typed with single spacing on A4 paper. Use of the "Times New Roman" typeface, size 12, is required; do not indent when starting a new paragraph; leave one line between paragraphs. Margins must be of 20 mm for left, right, top and bottom of the page.

### Abstract layout

The following items should appear at the beginning of the abstract:

* Title of poster: size 16, bold face, centered;
* Names of authors: size 12, centered;
* Addresses of authors, size 12, followed by the corresponding author’s email address: size 11;
* Three to ten keywords (size 12, italic) preceded by "Keywords:" (size 12, bold), centered.

Paragraphs should be spaced by 6 points above. Headings should be typed using size 12 and italic; left justified; with a 12-point spacing above.

Figures and Tables should be titled and formatted so as to be clear and easy to read and grasp.

**Annex 1. List of recommended Keywords,** you may include yours if you do not find good ones in this list

|  |
| --- |
| 3D Printing |
| 5G |
| 5G networks |
| ad-hoc Collaborative Logistics |
| Agent-based modelling |
| Air cargo transport chain |
| Airport |
| Artificial Intelligence |
| Augmented Reality |
| Automated Negotiation |
| Automated transhipment |
| Automated Vessels |
| Automation |
| Autonomous Logistics Operations |
| Autonomous transport |
| Autonomous transport boxes |
| Backhauling |
| behavioural analysis |
| Big Data |
| Bill of Lading |
| Blockchain |
| boxes |
| BPaaS |
| Bulky goods |
| Bundling |
| Business model |
| Capacity management |
| Cargo handling |
| Case study |
| CCAM-Connected, Cooperative and Autonomous Mobility |
| Centralization or Decentralization organization |
| Choreography |
| Circular Economy |
| C-ITS |
| City logistics |
| Climate Neutral and Smart Cities |
| Climate Resilient Networks |
| Cloud Computing |
| Cloud Logistics |
| Cognitive Logistics |
| Collaboration |
| Collaborative Platforms |
| Collective Intelligence |
| Co-loading |
| Coloured Petri nets |
| Commodities |
| Comodality |
| Consignment note |
| Consolidation |
| Consolidation centres |
| Container |
| Container Logistics |
| Container terminal management |
| Coordination |
| Corridors Hubs and Synchromodality |
| Couriers |
| COVID-19 |
| Cross Border |
| Cross-chain collaboration |
| Cross-Docking |
| Crowd shipping |
| Crowdsourcing |
| Customs |
| Customs Cross Border Interoperability |
| cyber security |
| Data |
| Data Analytics |
| Data Formats |
| Data Ownership |
| Data Sharing |
| Data Sovereignty |
| Decarbonization |
| Decision Support System |
| Decission Making |
| Delivery |
| Delivery networks |
| Delivery Robots |
| Dematerialization |
| Digital Business Platform |
| Digital Twins |
| Digitalization |
| Distributed ledger |
| Distribution Center Optimization |
| Distribution process |
| Digital Transport and Logistics Forum |
| Dynamic Appointment Scheduling |
| Dynamic pricing |
| e-cmr |
| e-Commerce |
| e-Customs |
| Emission calculation |
| Emission factors |
| Emissions reduction |
| Empty trips |
| End-to-End Optimization |
| Equipment |
| Estimated Time of Arrival |
| e-trucks |
| Farm to Fork |
| Feeder vessel |
| Finance |
| Finished vehicles logistics |
| Flexibility |
| FMCG |
| Freight Forwarder |
| Freight transportation planning |
| FTL – Full Truck Loads |
| Fuels |
| Gain sharing |
| Gamification |
| General Cargo |
| Geo-fence |
| GIS |
| Governance |
| GPS |
| Green Deal |
| Green House Gas emissions |
| GS1 standards |
| GSM |
| H2020 Projects |
| Handling |
| Handling systems |
| Home delivery |
| Horizontal Collaboration |
| Hyperconnected City Logistics |
| Hyperconnected Distribution |
| Hyperconnected Logistics |
| Hyperconnected Systems |
| Innovative web platforms |
| Intermodal |
| Intermodal and Synchromodal Transport |
| internalization |
| Internet of Things |
| ITS |
| Land use |
| Large-Scale Hub Location Problem |
| Last mile |
| LTL (Less tan Truck Load) |
| Load carriers |
| Load factor |
| Load optimization |
| Load Units |
| Location specification |
| Logistics |
| Logistics Clusters |
| Logistics Networks |
| Logistics Nodes |
| Logistics Space Time Network |
| LSPs – (Logistics Service Providers) |
| M2M |
| Marketplace |
| Matchmaking platform |
| Metadata |
| Microzone |
| Mixed-integer linear programming |
| Modular Production |
| Modular systems |
| Modular Units |
| Modularization |
| Montecarlo |
| Multi-agent simulation |
| Multimodal hubs |
| Multimodal network |
| Multimodality |
| Multi-objective optimisation |
| Multiple modes |
| Nearshoring |
| Network-Model |
| Omnichannel Supply Chains |
| On-demand |
| Ontology |
| Ontology alignment |
| Open Networks |
| Open-source |
| Open-source standards |
| Optimization |
| Optimization; Mixed Integer Programming |
| Packaging |
| Pallets |
| Parcel |
| Parcel Distribution |
| Parcel Lockers |
| Parking spaces |
| Partnership creation |
| Party Specification |
| Physical Internet |
| Physical location identification |
| PI Access and Adoption |
| PI business models |
| PI containers |
| PI Governance |
| Platform |
| Platooning |
| Pooling |
| Port |
| Port Management |
| Port of the future |
| ports |
| Practical experiments |
| Price of Anarchy |
| Privacy |
| Procurement |
| Product availability |
| Purchase Order |
| Railway |
| Real time |
| Real time data |
| Reduction of food waste |
| Resilience |
| Resources |
| Retail |
| RFID |
| Road Transport |
| Road transport market |
| Roadmap |
| Robotic cargo handling |
| Robotics |
| Robustness |
| Routing |
| RPA (Robotic Process Automation) |
| SC Finance |
| Security |
| Self-organizing Logistics (SOL) |
| Semantic technology |
| Service-Orientation |
| Shared logistics |
| Shared Visibility |
| Shared Warehouses |
| Sharing assets |
| Sharing economy |
| Shipment specification |
| Shippers |
| Short Sea Shipping |
| Showcasing |
| Simulation |
| Situation awareness |
| Slot booking |
| Smart Containers |
| Smart Contracts |
| Smart Devices |
| Social capital |
| Social Internet of Things |
| Software Defined Networks |
| Sovereignty |
| Space Time Network |
| Space-time graphs |
| Standards |
| Stated preference |
| Stochastic transit times |
| Supply Chain |
| Supply Chain Management |
| Supply Chain Optimization |
| Supply Chain Visibility |
| Supply Network Coordination and Collaboration |
| Sustainability |
| Sustainable Logistics Supply Chains |
| Sustainable mobility |
| Sustainable Transport |
| Synchromodality |
| System of Logistics Networks |
| System Optimal Solution |
| Systems and Technologies for Interconnected Log. |
| Systems Integration |
| TEN-T Network |
| Terms-of-Use |
| Territory |
| Trace |
| Tracing vehicles |
| Track and Trace |
| Tracking |
| Tracking Documentation |
| Trade Identity |
| Transhipment |
| Transport chains |
| Transport System |
| Transportation Management |
| Transhipment |
| Truck Load Optimization |
| Truck platooning |
| Trucks |
| Trust |
| Trust between competitors |
| Trustees |
| Urban Logistics |
| Urban Mobility |
| User Equilibrium |
| Value chains |
| Value Networks |
| Variable reductions techniques |
| VGM verification |
| Virtual Reality |
| Virtualization |
| Visibility |
| Warehouse Optimization |
| Warehousing |
| White-label deliveries |
| Work Programme |
| Zero emissions |
| Zero Emissions Zones |