

LMSCM2025



ISTANBUL
TOPKAPI
UNIVERSITY

FACULTY OF ECONOMICS,
ADMINISTRATIVE AND
SOCIAL SCIENCES

MANAGEMENT
INFORMATION SYSTEMS
DEPARTMENT



LMSCM2025

23rd INTERNATIONAL LOGISTICS AND SUPPLY CHAIN CONGRESS

Sustainable and Resilient Supply Chains in the Generative AI Age



October 16-17, 2025



Kazlıçeşme Campus

Doğa Sigorta Conference Hall



09.00 - 18.00



OCTOBER 17th

ONLINE PARTICIPATION



LMSCM2025

Congress Program

OPENING SPEECHES			
16th October 2025			
Istanbul Topkapı University Kazlıçeşme Campus			
G Block Conference Hall	09:30 - 10.00	REGISTRY AND ADMISSION	
	10.00 - 10.15	NATIONAL ANTHEM, MOMENT OF SILENCE	
	10.15 - 10.30	Prof. Dr. Batuhan KOCAOĞLU	Istanbul Topkapı University, Congress Chair
	10.30 - 10.45	Prof. Dr. Mehmet TANYAŞ	LODER, Congress Co-Chair
	10.45 - 11.00	Prof. Dr. Ercan GEGEZ	Istanbul Topkapı University, Dean
	11.00 - 11.45	Dr Abhijeet Ghadge “Realising Intelligent Supply Chains Through Digital Transformation”	Cranfield University

11:45 – 12:00	Coffee Break
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G Block Conference Hall	12.00 - 12.45	Dr. İsmail KARAKIŞ	PwC Management Consulting, Supply Chain Services Partner
	12.45 - 13.30	Dr. Selma ÖNER	Şişecam, Advisor to CEO

13:30 – 14:30	Lunch Break
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G Block Conference Hall	14.30 - 15.15	Dr. Emre Türkmen	KoçDigital
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IN-PERSON SESSIONS

16th October 2025

13:30 – 14:30

Lunch Break

CONFERENCE SESSION 1

Istanbul Topkapı University Kazlıçeşme Campus

Chair

Zbigniew BENTYN

Uniwersytet Ekonomiczny w Poznaniu

14:30 – 14:45 Brazil As Potential Logistics Hub For The Global Supply Chain

Zbigniew Bentyn (Poznan University of Economics and Business)*;
Sylwia Konecka (Poznan University of Economics and Business)

G201

14:45 – 15:00 Generative AI for Sustainable Logistics Decision-Making: A Multi-Level Framework Integrating Human-AI Collaboration

İbrahim Uzpeder (Istanbul Bilgi University)*; Ahmet Baybars Soyak (SYK Gümrük Müşavirliği)

15:00 – 15:15 Assessing Factors Influencing Household Medication Waste In A Circular Economy Framework

Gizem Halil Utma (İzmir University of Economics)*

15:15 – 15:30 Cognitive Load And Legal Responsibility In Smart Maritime Logistics: The Human Factor Under Pressure

Mert Hazar (Kocaeli University)*; Yağmur Ayşe SELÇUK (Kocaeli University)

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Chair	Özgün KARA	<i>Istanbul Topkapı University</i>
G202	14:45 – 15:00 Artificial Intelligence-Driven Decision Systems in the Transformation of Distribution Processes: Redefining Sustainability and Logistics Performance within Multi-Channel Marketing Strategies	Murat Başal (İstanbul Gelişim Üniversitesi); Emine Öztürk Koçali (İstanbul Gelişim Üniversitesi)*
	15:00 – 15:15 Use of Unmanned Surface Vehicles in Commercial Ports	Serkan Karakaş (Bilgi Üniversitesi)*
	15:15 – 15:30 Value Stream Mapping And Organizational Alignment In Digital Process Transformation: An Integrated Approach From MIS Perspective	Emre Ömer Zehir (İstanbul Topkapı Üniversitesi); Rana Özyurt Kaptanoğlu (İstanbul Topkapı Üniversitesi)*; Güneş Küçükyazıcı (İstanbul Topkapı Üniversitesi)

Chair	Pınar Gürol	<i>Piri Reis University</i>
G205	14:30 – 14:45 Facilitating Procurement Processes with Generative AI: A SWARA–MAIRCA-Based GenAI Tool Selection Model	Batuhan Kocaoğlu (İstanbul Topkapı University)*; Muhammet Bal (İstanbul Üniversitesi)
	14:45 – 15:00 Supply Chain Management Practices And Challenges From The Perspective Of Supply Chain Managers, 2025 - An Evaluation In Türkiye	Şemsi Kamile Canbay (Üsküdar University)*
	15:00 – 15:15 Socio-Economic Impact Analysis Of Digital Transformation On Blue-Collar Workers In The Logistics Sector	Mesut Samastı (TUBITAK TUSSIDE)*
	15:15 – 15:30 Sharing Economy And Mobile Logistics: Performance Analysis Of Caravan Rental Platforms	Pınar Gürol (Piri Reis University)*; Emre Çakmak (İstinye University)

15:30 – 15:45

*Break***CONFERENCE SESSION 2***Istanbul Topkapı University Kazlıçeşme Campus***Chair****Sevda DEDE*****Piri Reis University*****15:45 –**

Blockchain-Based Traceability In Electric Vehicle Battery

Merve Güler (Ege University)*

16:00Supply Chains: Strategic Insights From Global Case Studies
For Türkiye**G201****16:00 –**Eta Estimation With Digital Technologies To Ensure
Visibility

İdil Şahin (Aydın University)*, Tuğçe Doğan (BEKO)

16:15

In Logistics And Supply Chains A Case Study

16:15 –A Framework For Safety And Risk Factors Of Commercial
And Civilian UavsMerve Er (Marmara University)*; Köksal Boyalı (Argela Yazılım
ve Bilişim Teknolojileri San. ve Tic. A.Ş.); Bilge Nur Güneş
(Marmara University); Serol Bulkan (Marmara University)**16:30****16:30 –**Integrating Blockchain And Sustainability: A Literature-
Based Design For Turkish-Egyptian Apparel CollaborationUtkan Uluçay (Maltepe University)*; Batuhan Kocaoğlu
(Istanbul Topkapı University)**16:45**

ONLINE SESSIONS

17th October 2025

ONLINE CONFERENCE SESSION 1

	Chair	Özgün KARA	<i>Istanbul Topkapı University</i>
A	10:00 – 10:15	From Siloed Systems To Federations Of Platforms A Shared Ecosystem: Digital Collaboration As The Shipper's Gateway To The Physical Internet	Murat Özemre (Shipmind)*
	10:15 – 10:30	The Role Of Artificial Intelligence Algorithms In Achieving Green Logistics Objectives	Kadir Aksay (Eskisehir Technical University)*; Ibrahim Kabadayı (Eskisehir Technical University); Ayse Kucuk Yılmaz (Eskisehir Technical University)
	10:30 – 10:45	Dark Factories And Autonomous Logistics: A Sustainability-Oriented Assessment	Murat Ruhlusaraç (Erciyes Üniversitesi)*
	10:45 – 11:00	Evaluation Of Distribution Center Scenarios In Commercial Cooling Sector	Funda Dağarslan (Erciyes Üniversitesi)*; Latife Görkemli Aykut (Erciyes Üniversitesi)

PLENARY SESSION

D	11:00 – 11:45	Robotic Systems to Facilitate Circular Economy	Emel Aktaş (Istanbul Technical University)
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11:45 – 12:00

Break

LMSCM2025

	Chair	Sevda DEDE	Piri Reis University
A	12:00 – 12:15	Post-Earthquake Vaccine Distribution: A Review And Future Research Directions.	Kübra Yazıcı Şahin (Turkish-German University)*
	12:15 – 12:30	Artificial Intelligence-Driven Approaches For Maritime Route Optimization: A Comprehensive Review Of Methods, Data, And Challenges	Remzi Fışkın (Ordu University), Mehmet Ali Vahdet YILMAZ*
	12:30 – 12:45	Modeling Radioactive Drug Distribution As Vehicle Routing Problem With Time-Window Constraints	Ahmet Balcıoğlu (Beykent University)*; Pelin Durmuşoğlu (Beykent University)
	12:45 – 13:00	An Assessment Of The Selection Criteria For The Northern Sea Route Through The Swara Method	Selen Baldiran (İstanbul Teknik Üniversitesi)*; Ali Cem Kuzu (Piri Reis Üniversitesi)

13:00 – 13:15

Break

	Chair	Özgün KARA	Istanbul Topkapı University
A	13:15 – 13:30	Prioritizing Generative AI Applications in Supply Chains: A Process-Based Evaluation Model	Melisa Özbiltekin-Pala (Yaşar University)*
	13:30 – 13:45	Measuring Supply Chain Resilience in the Generative AI Era: A Proactive Adaptation Rate (PAR) Approach	Alp Par (Topkapı University)*
	13:45 – 14:00	The Role Of Green Hydrogen In Urban Energy Transition: A Conceptual Approach To Sustainable Transportation Strategies	Esra Ceylan (Gaziantep Üniversitesi)*
	14:00 – 14:15	Rare Events and Complex Dependencies	Özgün Kara (İstanbul Topkapı Üniversitesi)*

14:15 – 14:30

Break

LMSCM2025

	Chair	Sevda DEDE	Piri Reis University
A	14:30 – 14:45	The Impact Of International Logistics Performance On Sustainable Competitiveness In BRICS-T Countries	Pelin Vardarli (Balıkesir University); Tansu Özbaysal (Balıkesir University); Mert DEMİR (Balıkesir University)*
	14:45 – 15:00	Integration And Performance Evaluation Of Smart Warehouse Technologies Using The Cocoso Method	Ahmet İlbaş (Arel Üniversitesi); Bihter Karagöz Taşkın (Arel Üniversitesi)*; Aynur Acer (Arel Üniversitesi); Hakan Kaya (Arel Üniversitesi)
	15:00 – 15:15	Comparative Analysis Of E-Communication Strategies Of Mall Logistics Companies	Lara Ozturk (Queen Mary University of London)*;
	15:15 – 15:30	Framing Effect Filter Usability Using Generative AI Through Sustainable Supplier Selection	Nurcan Deniz (Eskişehir Osmangazi Üniversitesi)*

15:30 – 15:45	Break
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	Chair	Barış Kutay DEĞERLİ	Istanbul Topkapı University
A	15:45 – 16:00	Sister Disaster Park Approach For Disaster-Resilient Cities: Pilot Province Selection On The Yedisu Fault Line	Nurcan Şimşek (Gümüşhane University); İskender Peker (Gümüşhane University); Mehmet Tanyaş (Maltepe University)*
	16:00 – 16:15	A Comprehensive Literature Review on the Application of Simulated Annealing in Supply Chain Optimization	Gürkan Güven Güner (University of Turkish Aeronautical Association)*
	16:15 – 16:30	Mapping Enablers of Digital Innovation in Logistics Services: Towards a Conceptual Framework	Sevda Dede (Piri Reis University)*
	16:30 – 16:45	Silent Erosion of Organizational Memory under Disruptive Technologies: An Information Systems Perspective within the Framework of Conservation of Resources Theory	Rana Özyurt Kaptanoğlu (İstanbul Topkapı Üniversitesi)*; Cem Ufuk Baytar (İstanbul Topkapı Üniversitesi)

ONLINE CONFERENCE SESSION 2

	Chair	Barış Kutay DEĞERLİ	<i>Istanbul Topkapı University</i>
B	10:00 – 10:15	Early Detection Of Supply Chain Disruptions Using Google Trends And Economic Indicators	Hayri Öcal (İstanbul Topkapı Üniversitesi)*; Batuhan Kocaoğlu (İstanbul Topkapı Üniversitesi), Fazlı Yıldırım
	10:15 – 10:30	The Economic Contribution Of Artificial Intelligence To The Turkish Healthcare Sector: 2030 Projection	Hayri Öcal (İstanbul Topkapı Üniversitesi)*
	10:30 – 10:45	Artificial Intelligence in Purchasing Processes in Logistics	Gökçe Durukan (Yeditepe University)*
	10:45 – 11:00	The Moderating Role Of Digital Literacy In The Effect Of Talent Management Implemented In Private Schools On Teachers' Individual Entrepreneurship And Innovative Behaviour Capacities	Hasan Temel (İstanbul Topkapı Üniversitesi)*

PLENARY SESSION

D	11:00 – 11:45	Robotic Systems to Facilitate Circular Economy	Emel Aktaş (Istanbul Technical University)
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11:45 – 12:00***Break***

LMSCM2025

	Chair	Emre Ömer ZEHİR	<i>Istanbul Topkapı University</i>
B	12:00 – 12:15	Generative AI-Assisted Decision Support for EU ETS and FuelEU Maritime Compliance Integrating Digital Twins, AIS Data, and Optimization Models in Shipping Operations	Emre Zehir (İstanbul Topkapı Üniversitesi)*; Fazlı Yıldırım (İstanbul Topkapı Üniversitesi)
	12:15 – 12:30	Evaluation Of Sustainability Performance In Road Transportation Using Fuzzy Ahp: Framework For 2026	Pervin Ersoy (Yaşar University), Emir Gürlevük (Yaşar University), Ahmet Caner Kara (Yaşar University)
	12:30 – 12:45	Trade Wars And Turkish Logistics: A Qualitative Analysis Of Trump-Era Tariff Impact	Kevser Yılmaz (Dokuz Eylül University)*
	12:45 – 13:00	Historical Development And Comparative Analysis Of Digital Maturity Assessment Methodologies	Özgür Burak Akkol (Istanbul Topkapi University)*; Rana Özyurt Kaptanoğlu (Istanbul Topkapi University)

13:00 – 13:15

Break

	Chair	Barış Kutay DEĞERLİ	<i>Istanbul Topkapı University</i>
B	13:15 – 13:30	Psychological Resources And Innovative Work Behaviors Of Employees In Digital Supply Chains	Nagihan Kartal (İstanbul Topkapı Üniversitesi)*; Fazlı Yıldırım (İstanbul Topkapı Üniversitesi)
	13:30 – 13:45	Digital Transformation Of Healthcare Supply Chains: A Grey MCDM And Maturity Model Approach	Gülçin Büyüközkan (Galatasaray University)*; Elif Tekin (Galatasaray University)*
	13:45 – 14:00	Clustering-Based Classification Of Countries According To Logistics Performance	Nida Oruç Ünal (İstanbul Topkapı University)*
	14:00 – 14:15	Compression Of Sensor Data In Logistics Using Wavelet Transform For AI Model Integration	Barış Değerli (Istanbul Topkapi University)*; Batuhan Kocaoğlu (Istanbul Topkapi University)

14:15 – 14:30**Break**

Chair	Rana ÖZYURT KAPTANOĞLU	<i>Istanbul Topkapı University</i>
14:30 – 14:45	A Grey-Based Multi-Criteria Framework For Sustainable Supplier Selection	Zeynep Köstepen (İzmir Bakırçay Üniversitesi) *; Ali Köstepen (İzmir Katip Celebi University)
14:45 – 15:00	Selecting AI Agents For Route Optimization Under Sustainability Constraints: A Multi-Criteria Decision Framework	Yasemin Kocaoğlu (Dogus Technology)*; Batuhan Kocaoğlu (Topkapı Üniversitesi)
B 15:00 – 15:15	A Bibliometric Analysis on Blockchain and Data Security	Rana Özyurt Kaptanoğlu (Topkapı Üniversitesi)*; Sevda Sargın (İstanbul Topkapı Üniversitesi); Fazlı Yıldırım (İstanbul Topkapı Üniversitesi)
15:15 – 15:30	An Algorithm Proposal For The Placement Of Vehicles Of An Electric Scooter Company Operating In Kahramanmaraş According To Population Density	Arif Selim Eren (Kahramanmaraş Sütçü İmam Üniversitesi); Ayşe Eryer (Independent Researcher); Mehmet Ali Orhan (Kahramanmaraş Sütçü İmam Üniversitesi)*
15:30 - 15:45	Multi-Objective Optimization Of Delivery Time And Carbon Emissions In E-Commerce Logistics Using A Pareto-Based Genetic Algorithm	Yasemin Demirel (Topkapı University)*; Oya Mert Coşkun (Tekirdağ Namık Kemal University)
15:45 – 16:00	An Analysis Of Women's Employment In Logistics: Evidence From Türkiye	Gül Esin Delipinar (Altınbas University)*

ONLINE CONFERENCE SESSION 3

	Chair	Yasemin DEMİREL	<i>Istanbul Topkapı University</i>
C	10:00 – 10:15	Assessment Of Logistics Service Providers Using Digitalization Capability As A Criterion	İlknur Yardımcı Coşkun (Maltepe University)*
	10:15 – 10:30	A Comprehensive Literature Review On The Logistics Performance Index	Rabia Bilici (LMSCM 2025)*
	10:30 – 10:45	Integration, Innovation And Digitalisation In The Supply Chain For Sustainability: A Model Proposal Based On Literature	Volkan Mazıoğlu (Kastamonu Üniversitesi)*; Bülent Yıldız (Kastamonu University)
	10:45 – 11:00	A Machine Learning Framework For Volumetric Weight (Desi) Estimation From Product Descriptions In E-Commerce	Ahmet Cay (TUM / Hepsijet)*; Barış Bayram (Hepsijet); Alaeddin Türkmen (Hepsijet); İrem Akova (Hepsijet)

PLENARY SESSION		
D	11:00 – 11:45	Robotic Systems to Facilitate Circular Economy Emel Aktaş (Istanbul Technical University)

11:45 – 12:00***Break***

LMSCM2025

	Chair	Güneş KÜÇÜKYAZICI	<i>Istanbul Topkapı University</i>
	12:00 – 12:15	Exploring Urban Logistics Dynamics: Insights From Stakeholder Perspectives	Mehmet Tanyaş (Maltepe Üniversitesi)*; Umut Kazancı (Maltepe Üniversitesi)
	12:15 – 12:30	Strategic International Trade and Logistics Management Regarding Recent Regional Conflicts in the Middle East	Yiğithan Düzer (Yeditepe University)*; Erkut Akkartal (Yeditepe University)
C	12:30 – 12:45	The Effect Of Electric Vehicle Implementation, Utilization Of Renewable Energy, And Operational Digitalization On Operational Cost Efficiency At PT POS Indonesia (Persero)	Danan Sudarso (ULBI)*
	12:45 – 13:00	Analysis of the Influence of Digital Technology, HR Competence, and Logistics Infrastructure on Transportation Modes and Their Impact on Sustainable Supply Chain Distribution: A Study on PT Pos Indonesia (Persero)	Sandy Noviandy (ULBI)*

13:00 – 13:15	Break
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	Chair	Yasemin DEMİREL	<i>Istanbul Topkapı University</i>
	13:15 – 13:30	Rubble Separation Facility Location Selection For Urban Renewal Waste	İpek Bedirhan (Yaşar University)*; Yücel Öztürkoğlu (Yaşar University)
C	13:30 – 13:45	Integrating Artificial Intelligence in Logistics, Manufacturing, and E- Commerce: A Practical Case Study	Elsidiğ Mıltan (Engineer)*

LMSCM2025

13:45 – 14:00	A Review of Cybersecurity Complexity Factors in Cloud Industry	Emad Maree Aliwa (İstanbul Topkapı Üniversitesi); Rana Özyurt Kaptanoğlu (İstanbul Topkapı Üniversitesi)*
14:00 – 14:15	Transforming Safety Knowledge Access With AI: The Case of DHL Genie In HSE Operations	Murat Can Doğruyol (DHL Supply Chain)*; Atakan Atamert (DHL Supply Chain); Gökçen Göktepe (DHL Supply Chain); Sinem Kalaycı (DHL Supply Chain)

14:15 – 14:30	<i>Break</i>
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	Chair	Ergun Eray AKKAYA	<i>Istanbul Topkapı University</i>
	14:30 – 14:45	Reducing Renewable Supply Risks Through AI	Aya Nagaty (İstanbul Gedik University); Duygu Demiray Akkaya (İstanbul Topkapı University)*
	14:45 – 15:00	Modeling Company Size Score: Application In The Logistics Sector	Yıldız Özcan (Platin Ambalaj Ve Tasarım A.Ş.)*, Mehmet Tanyaş
C	15:00 – 15:15	The Role Of Robotic Technology And Radio Frequency Identification (RFID) In Enhancing The Effectiveness Of Digitalization and Automation of Logistics Services: A Study on PT POS Indonesia (Persero)	Aris Riskandar (University of Logistics and International Business (ULBI))*
	15:15 – 15:30	Supply Chain Agility In Disaster Management	Şeyma AKÇİÇEK (Gümüşhane University); Bilge Batar (Tokat Gaziosmanpaşa University); Dilber Coşkun (Munzur University); Nurcan Şimşek (Gümüşhane University)*; Yasemin DENİZ ÖZTÜRK (Artvin Çoruh University); İskender Peker (Gümüşhane University)
	15:30 – 15:45	Thematic Analysis Of The Last Decade In Sustainable Supply Chain Management Literature: Conceptual Developments And Future Research Directions	Şeyma Emeç (Erzurum Technical University)*; Belkız Toğrul (Erzurum Technical University)

Online Session Links

Please find below the updated access links for each group session:

- [D] – LMSCM2025 Plenary Session by Prof. Dr. Emel AKTAŞ (11:00–11:45)

 meet.google.com/ruo-bkre-uvp

- [A1] – LMSCM2025 Online Session (10:00–11:00)

 meet.google.com/kqi-rrta-zbd

- [A2] – LMSCM2025 Online Session (12:00–13:00)

 meet.google.com/sru-osmo-eyi

- [A3] – LMSCM2025 Online Session (13:15–14:15)

 meet.google.com/iaf-gkjp-awv

- [A4] – LMSCM2025 Online Session (14:30–15:30)

 meet.google.com/iaf-gkjp-awv

- [A5] – LMSCM2025 Online Session (15:45–16:45)

 meet.google.com/jqv-ewwf-isj

- [B1] – LMSCM2025 Online Session (10:00–11:00)

 meet.google.com/zdj-pavt-qij

- [B2] – LMSCM2025 Online Session (12:00–13:00)

 meet.google.com/sjp-panu-cpa

- [B3] – LMSCM2025 Online Session (13:15–14:15)

 meet.google.com/rpt-sktd-jsf

- [B4] – LMSCM2025 Online Session (14:30–15:30)

 meet.google.com/yoy-agov-gbz

LMSCM2025

□ [C1] – *LMSCM2025 Online Session (10:00–11:00)*

 meet.google.com/aiq-djhf-ssm

□ [C2] – *LMSCM2025 Online Session (12:00–13:00)*

 meet.google.com/cuu-osgm-vfe

□ [C3] – *LMSCM2025 Online Session (13:15–14:15)*

 meet.google.com/fzs-wgey-mcx

□ [C4] – *LMSCM2025 Online Session (14:30–15:30)*

 meet.google.com/waw-xwam-hbz

□ *Participation Guidelines:*

- *Please check your presentation group (A, B, or C) in the official congress program before joining a session.*