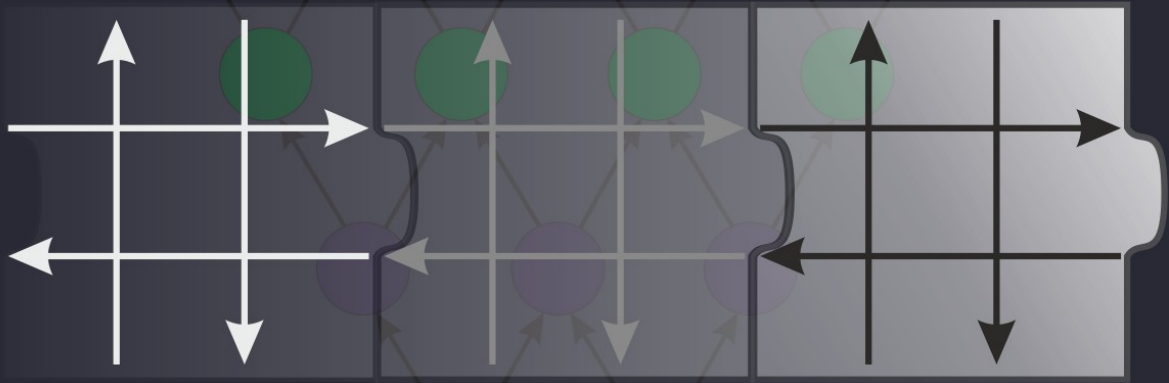


# ACTA LOGISTICA



ISSN 1339-5629  
electronic journal

International Scientific Journal about Logistics

Annual Report 2024



Volume 11  
Issue 1-4  
2024

---

## ANNUAL REPORT 2024

### Acta logistica

Dear authors, readers, editors, reviewers and supporters of the journal Acta logistica (AL), for the journal, Acta logistica was the year 2024 very successful with 65 published papers (Volume 11) with 222 authors and co-authors from 26 countries with many citations received.

The statistics about the journal for the year 2024:

- The journal Acta logistica published 65 reviewed articles.
- The review process did not accept 78 contributions (completed reviews).
- The number of contributions received in 2024 for the review process was 155.
- The number of authors and co-authors in published articles is 222 from 26 countries with many received citations. The percentage representation of countries from Africa is 14.48%, from America is 4.52%, from Asia is 42.99% and from Europe is 38.01%.

We greatly appreciate the work and voluntary contribution of all reviewers for the journal Acta logistica. We also thank the members of the editorial board for their help, willingness and work for the journal. Once again, thank you all very much.

In 2024, the journal Acta logistica recorded significant web visits and tracking around the world. Based on an annual analysis in 2024 (January 2024 – December 2024), the journal has been watched in more than 118 countries worldwide. The average monthly page views of the journal AL [www.actalogistica.eu](http://www.actalogistica.eu) site was 2,300; the average monthly visitors were 524, and the average monthly new visitors were 437.

The papers from the year 2019 onwards are indexed in the SCOPUS (Elsevier) scientific database. The journal Acta logistica is positioned as a Q3 journal according to data from Scimago Journal & Country Rank, based on Scopus bibliographic database for the year 2023. The SJR indicator is 0.231, and SJR measures the scientific influence of the average article in a journal. The SNIP indicator is 0.481, and SNIP measures actual citations received relative to citations expected for the serial's subject field. The CiteScore indicator is 1.8, and it measures the average citations received per document published in the serial. Finally, the indicator Citations per document (2 years) is 1.130, (3 years) is 1.119 and (4 years) is 1.093.

The papers from the year 2020 onwards are indexed in the Web of Science (Clarivate) - Emerging Sources Citation Index. The Impact Factor for the journal, calculated for 2024 from data 2023, is 0.8 (Q4 - Engineering, Industrial, Q4 – Management), and the Journal Citation Indicator is 0.17.

THANK YOU VERY MUCH TO ALL WHO HELP WITH THE JOURNAL ACTIVITIES!  
GOOD HEALTH, LUCK AND SUCCESS IN THE YEAR 2025!

*Editors of the journal*

## CONTENTS

(MARCH 2024)

(pages 1-12)

**Environmental sustainability and operational performance in the road freight sector**  
Munyaradzi Mlambo, Joash Mageto, Sebonkile Thaba

(pages 13-19)

**Differentiation of stocks by the ABC approach in the synergy of the order penetration point of the logistics chain**  
Katarina Teplicka, Martin Hart, Sona Hurna

(pages 21-32)

**Strategic enhancement of Zakat collection and distribution in philanthropic institutions: integration of SERVQUAL, Kano, and QFD**  
Hirawati Oemar, Ulina Alifani, Yan Orgianus

(pages 33-45)

**Examination of the selection of logistics service providers**  
Gabor Nagy, Bela Illes, Agota Banyai

(pages 47-56)

**Sustainable logistics and passenger transport in smart cities**  
Olha Prokopenko, Gunnar Prause, Taliat Bielialov,  
Marina Jarvis, Mykola Holovanenko, Inna Kara

(pages 57-65)

**The improvement of the production process performance through material flow and storage efficiency increases serial production**  
Helena Makysova, Filip Galgoci, Zdenka Gyurak Babelova, Augustin Starecek

(pages 67-77)

**Analysis of corporate management risks in the work of logistics enterprises**  
Vaqif Maharram Quliyev, Sevinj Agamamed Abbasova, Mehriban Shaban Aliyeva,  
Elnara Robert Samedova, Manzar Aziz Mammadova

(pages 79-86)

**Roadmap to achieve operational excellence through Lean Management implementation and quality management system conformance**  
Oumaima El Affaki, Mariam Benhadou, Abdellah Haddout

(pages 87-98)

**Combining artificial neural networks and fuzzy analytic network process for holistic sustainable performance evaluation in the Moroccan mining industry**  
Farchi Chayma, Touzi Badr, Farchi Fadwa, Mousrij Ahmed

---

**(pages 99-109)**

**Implementation of cloud computing in the digital accounting system of logistics companies**

Mohammad Ahmad Alnaimat, Oleg Kharit, Iryna Mykhailenko,  
Ihor Palchyk, Safar Purhani

**(pages 111-117)**

**The constructivist approach as a concept of active learning and teaching  
of optimization processes at technical universities**

Marcela Lascsakova

**(pages 119-129)**

**Application of a time series to analyse the evaluation of road traffic accidents in Slovakia**

Miriam Andrejiova

**(pages 131-138)**

**Research of urban passenger transport in countries with a high Human Development Index**

Aiymzhan K. Kerimbek, Katira B. Satymbekova, Ainash A. Nurgaliyeva,  
Zauresh O. Imanbayeva, Bakytgul Z. Zhumagalieva

**(pages 139-148)**

**Charting a sustainable course: how normative factors shape intentions  
for Autonomous Rapid Transit commuting**

Nur Zaimah Ubaidillah, Fatin Nur Hidayah Taib Khan, Siti Nur Fatin Morshidi,  
Farhana Ismail, Nurul Izza Abd. Malek

**(pages 149-160)**

**The dynamics of port competition and efficiency in Vietnam amidst COVID-19:  
a decadal analysis**

Ha Thi Quach, Thuan Duc Tran, Khanh Ngoc Nguyen, Phuong Thanh Le

---

**CONTENTS**

**(JUNE 2024)**

---

**(pages 161-172)**

**Examining the impact of informal contract between delivery of package by agents and their  
customers on shipping**

Maryam Karamba, Adiza Alhassan Musah

**(pages 173-184)**

**Enhancing road service compliance: a robust penalty model for efficient  
maintenance management**

Tisara Sita, Agus Taufik Mulyono, Suryo Hapsoro Tri Utomo

---

**(pages 185-196)**

**Talent identification for revolutionizing human resource management in Saudi Arabia's logistics industry**

Ahmed Khalid Alrashedi

**(pages 197-209)**

**Optimizing scholarship distribution: a management information system approach**

Yan Orgianus, Fijrina R.I. Lapalanti, Halbana Tarmizi, Hirawati Oemar

**(pages 211-220)**

**Value chain model of the smoked fish industry in small island**

Ariviana Lientje Kakerissa, Johanis Hiariey, James Abrahamsz, Yoisy Lopolalan

**(pages 221-232)**

**Increasing organizational agility and innovation performance of tour operators from the relational view perspective**

Bisma Jatmika Tisnasasmita, Muafi Muafi, Dessy Isfianadewi, Wisnu Prajogo

**(pages 233-243)**

**Determining consumer demand patterns for production planning using a data mining approach**

A. Besse Riyani Indah, Andi Siti Hajar Meliani, Saiful Mangnggenre, Andi Nurwahidah, Arni Muarifah Amri

**(pages 245-255)**

**Measuring productivity using Data Envelopment Analysis and Multiple-Objective Programming in flows, logistic and transportation**

Maghsoud Amiri, Jafar Esmaeeli, Mani Sharifi, Shakib Zohrehvandi, Lucia Knapcikova

**(pages 257-267)**

**The role of the Internet of Things in increasing the efficiency of logistics companies**

Anna Sokhetska, Oleksandr Koren, Andrii Kravchenko, Natalia Danik, Sofiia Leonova

**(pages 269-280)**

**Health supply chain forecasting: a comparison of ARIMA and LSTM time series models for demand prediction of medicines**

François Mbonyinshuti, Joseph Nkurunziza, Japhet Niyobuhungiro, Egide Kayitare

**(pages 281-292)**

**Optimizing JIT production and maintenance strategies for material management in the presence of quality decline and random demand fluctuations**

Hector Rivera-Gomez, Diana Sanchez-Partida, Antonio Oswaldo Ortega-Reyes, Isidro Jesus Gonzalez-Hernandez

**(pages 293-298)**

**Strategic company sustainability: optimize firm resource management through innovation efficiency**

Andi Kushermanto, Abdul Rohman

---

**(pages 299-316)**

**Physical internet - where are we at? A systematic literature review**

Maria Matusiewicz

**(pages 317-323)**

**The logistics and sustainability in the European Union**

Erika Loucanova, Vladislav Kaputa, Martina Nosalova, Miriam Olsiakova

**(pages 325-337)**

**Reliability analysis of marine diesel engines vs. industrial diesel engines:  
a comparative approach**

Hla Gharib, Gyorgy Kovacs

---

## **CONTENTS**

**(SEPTEMBER 2024)**

---

**(pages 339-348)**

**Informal contracts' influence on shipping efficiency: a customer- perspective  
of package delivery agent**

Maryam Karamba, Adiza Alhassan Musah

**(pages 349-360)**

**Sustainable public procurement for supply chain resilience and competitive advantage**

Houda Taoudi Benchekroun, Zoubida Benmamoun,  
Hanaa Hachimi

**(pages 361-371)**

**Supply chain risk assessment using best worst method: a case study of agro-industry  
skipjack tuna in Ambon - Indonesia**

Daniel Bunga Paillin, Machfud Machfud, Hartrisari Hardjomidjojo,  
Muhammad Romli, Johan Marcus Tupan

**(pages 373-386)**

**Market segment evaluation based on fuzzy tools**

Valeriy Balan, Inna Tymchenko

**(pages 387-396)**

**Integrating machine learning and deep learning for enhanced supplier  
risk prediction**

Nisrine Rezki, Mohamed Mansouri

**(pages 397-407)**

**A survey study on Industry 4.0 for Moroccan manufacturing**

Bilad Assia, Zaim Mounia, Zaim Faical

---

**(pages 409-419)**

**Location selection for logistics centre using PROMETHEE method**

Jan Fabry, Frantisek Zapletal, Tereza Machacova

**(pages 421-427)**

**Production and logistics 4.0 in the food industry in the Czech Republic**

Romana Heinzova, Jan Strohmandl, Nikola Janova

**(pages 429-440)**

**Managing the modification of digital marketing and logistics under the influence of artificial intelligence**

Hassan Ali Al-Ababneh, Firas Jamil Alotoum, Mahmud Agel Abu Dalbough, Olga Popova,  
Ganna Myroshnychenko, Mohamed Ibrahim Mugableh

**(pages 441-449)**

**Boosting customer loyalty through marketing distribution, customer experience management and customer relationship management**

Badawi Badawi, Muafi Muafi

**(pages 451-460)**

**The role of distribution centres in the logistics infrastructure of Kazakhstan**

Zhanna Arynova, Gulmira Nakipova, Aigul Nurmaganbetova, Gulzhan Alina,  
Aigul Orazbayeva, Dinara Kemirkulova

**(pages 461-472)**

**Utilization of the intersection of ABC and XYZ analysis in stock planning in the warehouse by Covid period**

Iveta Kubasakova, Jaroslava Kubanova

**(pages 473-483)**

**Mitigating data inaccuracy and supply chain challenges in Western Romania's automotive industry**

Attila Turi

**(pages 485-493)**

**Increasing the efficiency of logistics for the area of storage and picking of special materials**

Miriam Pekarcikova, Peter Trebuna, Jan Kopec

**(pages 495-503)**

**Optimizing the order picking and delivery process to the final recipient**

Judyta Kabus, Radim Lenort

---

---

## CONTENTS

### (DECEMBER 2024)

---

(pages 505-516)

**Intellectual capital meets Industry 4.0: transforming logistics through bibliometric insights**  
Natalia Slyvkanyc, Jozef Glova, Alena Andrejovska, Robert Barski

(pages 517-526)

**Towards efficient logistics through suitable negotiation strategies: the role of uncertainty**  
Frantisek Zapletal, Jan Volny, Radim Lenort

(pages 527-536)

**Recognition of sustainable packaging by consumers of household chemicals**  
Michal Patak, Lenka Branska, Gabriela Hvezdova

(pages 537-547)

**Logistic-information system based on object-oriented approach**  
Peter Trebuna, Miriam Pekarikova, Matus Matiscsak

(pages 549-557)

**Logistics impact on business management and firm competitiveness – 15 years of experience**  
Rafal Matwiejczuk

(pages 559-568)

**An innovative decision-making method for choosing a bus fleet based on logistics and sustainability aspects**  
Vince Kruchina, Peter Tamas, Bela Illes

(pages 569-578)

**Effects of material master data management on supply chain performance at FLSmidth: the moderating role of PiLog external service provider**  
Elmarie V. D. Merwe, Noleen N. Pisa, Enock Musau Gideon, Chengete Chakamera

(pages 579-587)

**Enhancing reliability in garment manufacturing through FMEA and FTA**  
Asep Nana Rukmana, Ahmad Arif Nurrahman, Selamat Selamat, Syaefan Abdillah

(pages 589-604)

**Deep learning hybrid models for effective supply chain risk management: mitigating uncertainty while enhancing demand prediction**  
Nisrine Rezki, Mohamed Mansouri

(pages 605-613)

**Reasons, benefits and challenges on the road to automated internal transportation**  
Kornelia Osieczko-Potoczna

(pages 615-625)

**Optimizing ergonomic work facilities in distribution logistics to prevent manual lifting injuries**  
Yan Orgianus, Eri Achiraeniwati, Muhammad Ridha Rausan Fiqri, Hirawati Oemar



**(pages 627-638)**

**Analysis of marketing distribution efficiency of small pelagic fish on Ambon Island with path analysis**

Dientje Rumerung, Steven Siaila, Izaac Tonny Matitaputty

**(pages 639-650)**

**Crypto technologies in logistics**

Gabriel Fedorko, Hana Neradilova, Jan Kral, Nikoleta Mikusova, Martin Duriska

**(pages 651-663)**

**The impact of logistics service quality through the perceived organizational image on performance: cold chain logistics provider in Thailand**

Surasidh Boonchunone, Mariam Nami, Atchari Krommuang, Chumpol Karnpakdee, Opal Suwunnamek

**(pages 665-676)**

**Optimization of strategic management of marketing and logistics of companies as part of the implementation of artificial intelligence**

Hassan Ali Al-Ababneh, Safa Suliman Al-Olimat, Salem A. S. Alrhaimi, Ayed Moh'd Al Muala, Olga Popova, Valentyna Khrapkina

**(pages 677-685)**

**Working from abroad - workation as a mobility flow benefit**

Michal Beno, Dagmar Caganova, Bohdana Bobinics

**(pages 687-695)**

**Logistics cost management in foundry production using the Activity – Based Costing method**

Martina Zavrbska, Petr Besta

**(pages 697-707)**

**Spatial differentiation of Poland's voivodeship in the context of linear infrastructure development in 2011-2021**

Lukasz Poplawski, Pawel Dziekanski, Alina Danilevica, Bartosz Niescior

**(pages 709-718)**

**The impact of management systems and human resources on logistics performance: an empirical study**

Giselle Rodriguez-Rudi, Diego Humberto Carreno-Benavides, Ana Julia Acevedo-Urquiaga, Neyfe Sablon-Cossio

**(pages 719-727)**

**The impact of outsourcing cold chain logistics services on the financial performance of agricultural enterprises in the southeast region of Vietnam**

Minh Huong Tang, Doan Trang Do, Thu Hoa Ho Thi

---



## JOURNAL STATEMENT

---

Journal name:	<b>Acta logistica</b>
Abbreviated key title:	Acta logist
Journal title initials:	AL
Journal doi:	10.22306/al
ISSN:	1339-5629
Start year:	2014
The first publishing:	March 2014
Issue publishing:	Quarterly
Publishing form:	On-line electronic publishing
Availability of articles:	Open Access Journal
Journal license:	CC BY-NC
Publication ethics:	COPE, ELSEVIER Publishing Ethics
Plagiarism check:	Worldwide originality control system
Peer review process:	Single-blind review at least two reviewers
Language:	English
Journal e-mail:	<b><a href="mailto:info@actalogistica.eu">info@actalogistica.eu</a></b>

The journal focuses mainly for the original and new, interesting, high-quality, theoretical, practical and application-oriented contributions to the field of science and research as well as to pedagogy and education in the field of logistics and transport.

Acta logistica journal supports the San Francisco Declaration on Research Assessment (DORA). The primary directives include open access, reuse of outputs, diversity among authors and reviewers, peer review, description of provided services and related publishing charges.

Publisher:	<b>4S go, s.r.o.</b>
Address:	Semsa 24, 044 21 Semsa, Slovak Republic, EU
Phone:	+421 948 366 110
Publisher e-mail:	<b><a href="mailto:info@4sgo.eu">info@4sgo.eu</a></b>

**Responsibility for the content of a manuscript rests upon the authors  
and not upon the editors or the publisher.**