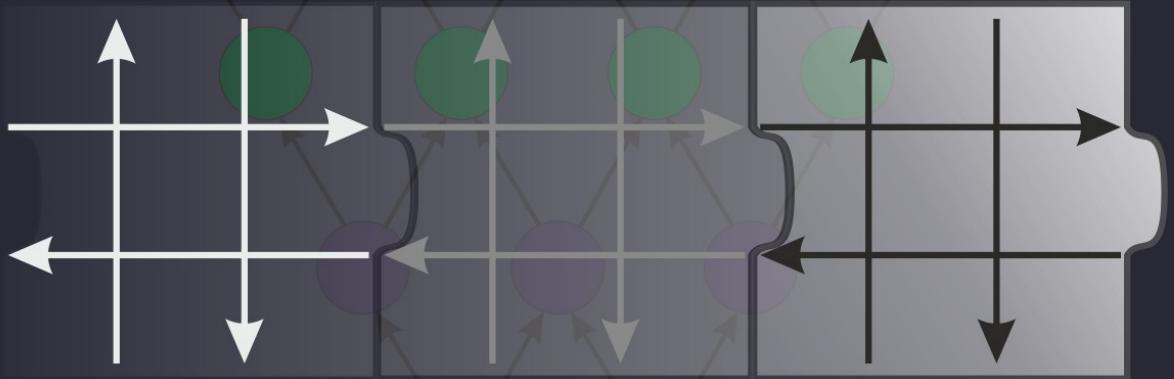


# ACTA LOGISTICA



ISSN 1339-5629  
electronic journal

International Scientific Journal about Logistics

Annual Report 2023



Volume 10  
Issue 1-4  
2023



---

## ANNUAL REPORT 2023

### Acta logistica

Dear authors, readers, editors, reviewers and supporters of the journal Acta logistica (AL), for the journal, Acta logistica was the year 2023 significant and very successful. The journal Acta logistica was abstracted and indexed in the European Reference Index for the Humanities and Social Sciences database.

What are the statistics about the journal for the year 2023?

- The journal Acta logistica published 60 reviewed articles.
- The review process did not accept 69 contributions (completed reviews).
- The number of contributions received in 2023 for the review process was 149.
- The number of authors and co-authors in published articles is 176 from 31 countries with many received citations. The percentage representation of countries from Africa is 14.20%, from America is 13.07%, from Asia is 37.50% and from Europe is 35.23%.
- The number of reviewers for all contributions (published, rejected and ongoing reviews) is 82 from 27 countries (Australia, Bangladesh, Cambodia, Colombia, Czech Republic, France, Germany, Greece, Hungary, India, Indonesia, Iran, Kyrgyzstan, Malaysia, Mexico, Morocco, Poland, Russian Federation, Slovak Republic, Spain, Taiwan, Thailand, Ukraine, United Arab Emirates, United Kingdom, United States, Vietnam).

In 2023, the journal Acta logistica recorded significant web visits and tracking around the world. Based on an annual analysis in 2023 (January 2023 – December 2023), the journal has been watched in more than 109 countries worldwide. The average monthly page views of the journal AL [www.actalogistica.eu](http://www.actalogistica.eu) site was 2,200; the average monthly visitors were 416, and the average monthly new visitors were 340.

The papers from the year 2019 onwards are indexed in 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 2022. The SJR indicator is 0.218, and SJR measures the scientific influence of the average article in a journal. The SNIP indicator is 0.456, and SNIP measures actual citations received relative to citations expected for the serial's subject field. The CiteScore indicator is 1.7, and it measures the average citations received per document published in the serial. Finally, the indicator Citations per document (2 years) is 0.962 and (3 years) is 1.019.

The papers from the year 2020 onwards are indexed in Web of Science (Clarivate) - Emerging Sources Citation Index. The first Impact Factor for the journal, calculated for 2023 from data 2022, is 0.7 (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 2024!**

*Editors of the journal*

---

## CONTENTS

---

### (MARCH 2023)

**(pages 1-10)**

#### **A review on the positive implications of augmented reality pick-by-vision in warehouse management systems**

Shaliza Jumahat, Manjit Singh Sidhu, Sharulhizam Mohamad Shah

**(pages 11-23)**

#### **Assessing the major sources of uncertainty in supply chains: survey**

Nisrine Zougagh, Abdelkabir Charkaoui

**(pages 25-34)**

#### **The role of information and digital tools in supply chain management during the Covid crisis**

Kashamida Tazhibekova, Aigerim Shametova, Rashad Maharramov, Svetlana Makar

**(pages 35-46)**

#### **To stay or not to stay: the mediation roles of job satisfaction and organization commitment among women in logistics industry**

Syaza Fatimah Sukri, Abdul Hafaz Ngah, Micheal Tio Boon Yiaw

**(pages 47-60)**

#### **Adaptation of logistics companies to operation under the Covid-19 pandemic restrictions**

Olha Prokopenko, Gunnar Prause, Vasil Otenko, Maiia Cherkashyna,  
Inna Kara, Iraklii Imnadze

**(pages 61-70)**

#### **The management of construction projects in Iraq and the most important reasons for the delay**

Layth AL musawi, Sepanta Naimi

**(pages 71-77)**

#### **Waste analysis of tapioca unloading process with lean supply chain approach in Makassar Port**

Suradi Suradi, Dirgahayu Lantara, Ahmad Padhil

**(pages 79-88)**

#### **Assessing carbon emissions reduction by incorporating automated monitoring system during transit: a case study**

Anastasia Efimova, Mohan Saini

**(pages 89-93)**

#### **The usage of RFID robots in logistics process management**

Peter Trebuna, Matus Matiscsak, Marek Kliment, Miriam Pekarcikova

---

(pages 95-103)

**Optimizing internal transport in terms of technical parameters in a mining company**

Katarina Teplicka, Sona Hurna

(pages 105-110)

**Impact of industrial free zones on the business environment of emerging countries**

Ouail El imrani, Ibrahim Assabane

(pages 111-119)

**The features of negotiations within reverse logistics cooperation**

Tomasz Malkus, Andrzej Kozina

(pages 121-133)

**Design and control order picking route of a retailer warehouse using simulation to increase labour productivity**

Moh'd Anwer AL-Shboul

(pages 135-140)

**Austrian future cubicle: commuting, e-commuting or both?**

Michal Beno, Dagmar Caganova

(pages 141-150)

**Assisting artificial intelligence adoption drivers in human resources management: a mediation model**

Eman Hassan AL Qahtani, Mohammad A.K Alsmairat

---

## CONTENTS

---

(JUNE 2023)

(pages 151-164)

**Exploring the effects of perceived values on consumer usage intention for electric vehicle in Thailand: the mediating effect of satisfaction**Surasidh Boonchunone, Mariam Nami, Atchari Krommuang,  
Aphichon Phonsena, Opal Suwunnamek

(pages 165-173)

**Streamlining utilisation of the assembly line using computer simulation**

Lucia Mozolova, Patrik Grznar, Stefan Mozol, Martin Krajcovic

(pages 175-190)

**Methodologies for characterization, evaluation, and improvement of logistics in the food supply chain**Paula Andrea Cruz Rodriguez, Andres Felipe Gomez Canon,  
Javier Arturo Orjuela-Castro

---

**(pages 191-198)**

**A new model for cost estimation construction project using  
Hybrid importance regression ensemble method**

Ali Najah Abdulkadhim Alkhuadhan, Sepanta Naimi

**(pages 199-208)**

**Impact of dividend policy on stock prices**

Mahirun Mahirun, Arih Jannati, Andi Kushermanto,  
Titi Rahayu Prasetiani

**(pages 209-228)**

**A systematic literature mapping of current academic research linking warehouse  
management systems to the third-party logistics context**

Daria Minashkina, Ari Happonen

**(pages 229-240)**

**Evaluating low-carbon policy alternatives to support electric vehicle transition: evidence from  
Bogota-Colombia**

Javier Andres Calderon-Tellez, Milton M. Herrera,  
Alvaro Javier Salinas-Rodriguez

**(pages 241-250)**

**Ordinal regression analysis of traffic collision accidents in Jordan 2021: factors and  
severity assessment**

Walaa Darwish, Haneen H. Darwish

**(pages 251-265)**

**Design of logistic criteria to establish healthcare facilities in vulnerable regions in Mexico**

Irene-Crisely Perez-Balboa, Santiago-Omar Caballero-Morales,  
Diana Sanchez-Partida, Patricia Cano-Olivos

**(pages 267-278)**

**Optimization and process development methods in the production of sugar from  
Cuban sugar cane**

Peter Veres, Peter Tamas, Bela Illes,  
Norge Isaias Coello Machado

**(pages 279-289)**

**Evidence from United Arab Emirates universities on effective human resources policies  
for employee perceived performance**

Mohammed Yousif Abo Keir

**(pages 291-304)**

**Lean 4.0 in port management: an alternative to support the development  
of the circular economy in the sector**

Andrei Bonamigo, Pamela Oliveira Arcanjo, Maria Juliane Goncalves,  
Newton Narciso Pereira, Dierci Marcio Cunha da Silveira

---

---

(pages 305-317)

**Exploring the drivers and barriers to digital transformation adoption for sustainable supply chains: a comprehensive overview**

Imadeddine Oubrahim, Naoufal Sefiani

(pages 319-329)

**Performance of Vietnamese shipping firms: a four random components stochastic frontier approach**

Thanh Khac Mai, Quang Thai Dinh,  
Ha Thi Quach, Van Nguyen

(pages 331-344)

**Sources of sustainable competitive advantage and direction of development: a study on pharmaceutical SMEs**

Phung Tieu Nguyen, Binod Timilsina

---

## CONTENTS

(SEPTEMBER 2023)

(pages 345-352)

**Development of a hybrid artificial neural network method for evaluation of the sustainable construction projects**

Halah Waleed Albasri, Sepanta Naimi

(pages 353-362)

**Supplying aid products to affected regions by a natural phenomenon in Chiapas, Mexico**

Erika Barojas-Payan, Diana Sanchez-Partida, Israel-Uriel Cantu-Cortes,  
Eduardo-Jesus Martinez-Banuelos

(pages 363-374)

**Categorization of urban logistics stakeholders**

Farchi Fadwa, Farchi Chayma, Touzi Badr, Mabrouki Charif

(pages 375-388)

**On the relationship between cash flow bullwhip and the company performance: study of the Moroccan detergent products branch**

Hicham Lamzaouek, Hicham Drissi, Karima Mialed

(pages 389-392)

**Role of meteorology in logistics planning**

Miriam Jarosova

---

**(pages 393-402)**

**Management of the grain supply chain during the conflict period: case study Ukraine**

Olexiy Pavlenko, Dmitriy Muzylyov, Vitalii Ivanov,  
Marian Bartoszuk, Jerzy Jozwik

**(pages 403-412)**

**Current state and improvement prospects of warehouse workers health and safety practices  
in Bulgarian manufacturing and trading organizations**

Miroslav Stefanov

**(pages 413-422)**

**Predicting crash injury severity in road freight flows with association rules algorithms**

Luis David Berrones-Sanz, Estefania Perez-Diaz,  
Dulce Maria Monroy Becerril, Esteban Martinez Diaz

**(pages 423-434)**

**Telework and the limited impact on traffic reduction – Case study Madrid (Spain)**

Alvaro Hernandez-Tamurejo, Beatriz Rodriguez Herraez,  
Maria Leonor Mora Agudo

**(pages 435-444)**

**Evaluation of the efficiency of internet marketing in electronic business**

Mahmud Agel Abu Dalbouh

**(pages 445-451)**

**Increasing the efficiency of warehouse analysis using artificial intelligence**

Peter Veres

**(pages 453-462)**

**Cold warehousing services from the perspectives of logistics providers: the mediating role  
of cost and organizational readiness**

Abdul Hafaz Ngah, Mohd Faizal Abu Hassan, Michael Tio Boon Yiaw,  
Nurul Haqimin Mohd Salleh, Jagan Jeevan

**(pages 463-476)**

**Employee engagement in logistics industry: a perspective in Indonesia**

Haryanto Haryanto, Harry Suharman, Poppy Sofia Koeswayo, Haryono Umar

**(pages 477-485)**

**The use of mobile applications in logistics of services**

Marian Dires, Sona Chovanova Supekova

**(pages 487-495)**

**Combination of FTA and FMEA methods to improve efficiency  
in the manufacturing company**

Puti Renosori, Hirawati Oemar, Siti Rohmah Fauziah

---

---

## CONTENTS (DECEMBER 2023)

---

**(pages 497-514)**

**Assessing the Bullwhip effect in supply chain: trends, gaps, and overlaps**

Diego A. Tamayo, Javier Arturo Orjuela-Castro, Milton M. Herrera

**(pages 515-522)**

**Analysis of the usage of modern marketing strategies in commercial logistics**

Annamaria Behunova, Lucia Knapcikova, Arina Vechkileva

**(pages 523-535)**

**The disruptive times of Covid-19: higher education leadership and management logistics in Arab nations**

Habib M. Fardoun, Ghassan Aouad, Georges Yahchouchi

**(pages 537-548)**

**Service quality of e-hailing taxi services in Johannesburg**

Adedotun Joseph Adenigbo, Joash Mageto, Hemisha Makan, Rose Luke

**(pages 549-556)**

**Simulation of operations on the production line as a tool for making the production process more efficient**

Janka Saderova, Lubomir Ambrisko

**(pages 557-565)**

**Improving allocation and layout in production logistics**

Martin Straka, Peter Kacmary, Petr Besta

**(pages 567-575)**

**Do I need to use it? Factors influencing the intention to adopt automated parcel lockers as last-mile delivery services**

Fara Adura Mohd Yusoff, Fazeeda Mohamad, Puteri Fadzline Muhamad Tamyez,  
Siti Aisyah Panatik

**(pages 577-587)**

**Supplier relationship management and its impacts on purchasing performance in aircraft maintenance, repair, and overhaul in Thailand**

Peter Madzik, Noppadol Suwannasap

**(pages 589-596)**

**Inventory planning of raw material using Silver Meal and Wagner Whitin Algorithm**

Sapta Asmal, Deni Kurniawan, A. Besse Riyani Indah,  
A. Muhammad Anshar, Suradi Suradi

**(pages 597-603)****Improving last mile distribution systems through the Internet of Things: a South African case**

Masithembe Kafile, Thokozani Patmond Mbhele

**(pages 605-614)****Standards of Value Stream Mapping as a tool supporting logistics processes  
in the healthcare system in Poland**

Jolanta Korkosz - Gebcka, Lukasz Poplawski

**(pages 615-624)****Digitalization, innovation and marketing in logistics**Hassan Ali Al-Ababneh, Mahmud Agel Abu Dalbouh, Salem A. S. Alrhami,  
Ibrahim Mahmoud Siam, Tatyana Ibragimkhalilova**(pages 625-636)****Profit comparison analysis in production system simulation based on lean principles  
to achieve sustainable manufacturing**Saiful Manggenre, A. Besse Riyani Indah, Nadzirah Ikasari Syamsul,  
Andi Nurwahidah, Muhammad Reza D. Bagus**(pages 637-644)****Streamlining logistics flows with lean tools using TX Plant Simulation software support**

Miriam Pekarcikova, Peter Trebuna, Michal Dic, Jaroslav Markovic

**(pages 645-658)****Improving supply chain risk assessment with artificial neural network predictions**

Nisrine Rezki, Mohamed Mansouri



---

## 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:	<a href="mailto:info@actalogistica.eu">info@actalogistica.eu</a>

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:	Semska 24, 044 21 Semska, Slovak Republic, EU
Phone:	+421 948 366 110
Publisher e-mail:	<a href="mailto:info@4sgo.eu">info@4sgo.eu</a>

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