Browse ∨   My Settings ∨   Help ∨   Institutional Sign In

Institutional Sign In

All ▼

Q

ADVANCED SEARCH

Application of Artificial Intelligence for Traffic Data Analysis, Simulations and Adaptation

Publisher: IEEE

| Cite This |

PDF

Daniela Koltovska Nechoska ; Renata Petrevska Nechkoska ; Renata Duma   **All Authors**

94
Full
Text Views

Ⓡ ⤴ © 🗀 🔔

Alerts

Manage Content Alerts

Add to Citation Alerts

Abstract

Document Sections

I. Introduction

II. AI and Intelligent
Transport Systems
Services

III. Applied Methodology

IV. The Challenges of Ai
Application in Transport

V. Conclusion

Authors

Figures

References

Keywords

Metrics

More Like This

🅿 Downl PDF

Abstract: The application of Artificial Intelligence (AI) in traffic management and control is aimed at overcoming the challenges of increased travel demand, safety concerns, noise... **View more**

▶ **Metadata**
Abstract:
The application of Artificial Intelligence (AI) in traffic management and control is aimed at overcoming the challenges of increased travel demand, safety concerns, noise reduction, congestion, and environmental effects. This paper gives an overview of the current status, trends, and challenges in applying AI to address transportation problems and initial insights from a managerial perspective in terms of adaptation. The automated traffic data collected by the Good Vision AI-based cloud tool are used to perform an analysis of traffic flows.

No metrics found for this document.

☰ Contents

I. Introduction

Nowadays, there is no longer any doubt that Artificial Intelligence (AI) development can provide unprecedented opportunities to enhance the performance of different industries and businesses, as well as including the transport sector. Transportation problems become challenges when the systems and the user's behavior are too difficult to model and predict travel patterns. By sharing the characteristics of applicability in real-time and adaptation, the capability of self-analyzing by errors and success, learning and improvement (over time) interacting with the environment, and quick learning from a large amount of data, AI is deemed to be a good fit to overcome the challenges of increasing travel demand, traffic congestion, safety concerns, and environmental degradation [1]. These challenges arise from the steady traffic growth due to the increasing population in urban areas, especially in developing countries [2].

Sign in to Continue Reading

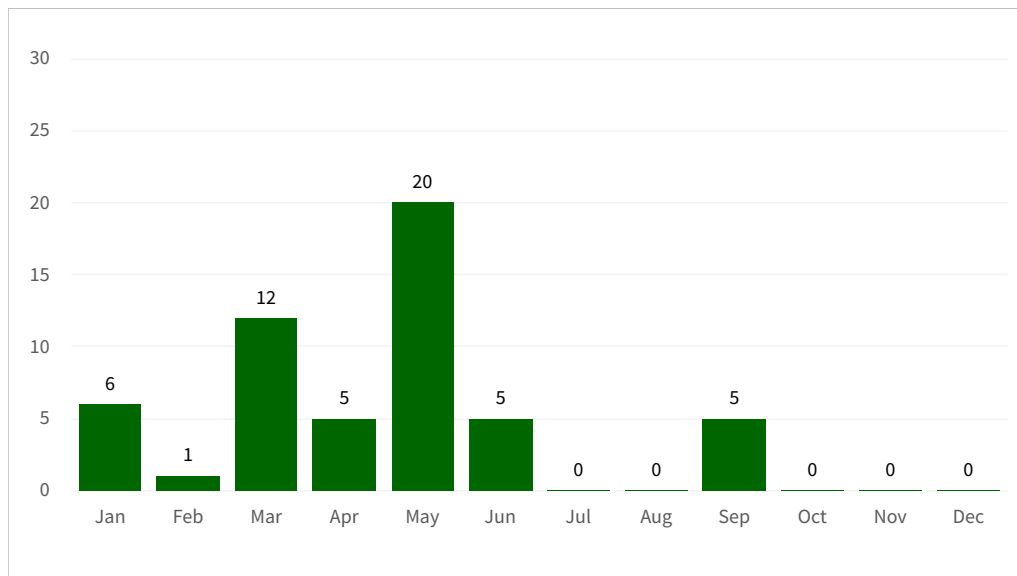| Authors	⌄
Figures	⌄
References	⌄
Keywords	⌄
Metrics	⌃

Usage ❓

Select a Year

| 2023 📅 |

View as

| | Table |

Total usage since Jul 2022: **94**

Year Total: 54
Data is updated monthly. Usage includes PDF downloads and HTML views.

Citations ❓

🔗

**Search for
Citations in
Google Scholar®**

More Like This

Application of Artificial Intelligence for Traffic Data Analysis, Simulations and Adaptation | IEEE Conference Publication | IEEE Xplore

21.10.23, 10:18

Vehicle Identification and Classification for Smart Transportation using Artificial Intelligence- A Review

2022 15th International Conference on Human System Interaction (HSI)

Published: 2022

Functional data analysis of daily curves in traffic: Transportation forecasting in the real-time

2017 Computing Conference

Published: 2017

Show More

CHANGE USERNAME/PASSWORD

PAYMENT OPTIONS

VIEW PURCHASED DOCUMENTS

COMMUNICATIONS PREFERENCES

PROFESSION AND EDUCATION

TECHNICAL INTERESTS

US & CANADA: +1 800 678 4333

WORLDWIDE: +1 732 981 0060

CONTACT & SUPPORT

About IEEE *Xplore* Contact Us Help Accessibility Terms of Use Nondiscrimination Policy IEEE Ethics Reporting 🗗 Sitemap
IEEE Privacy Policy

IEEE Account

» Change Username/Password

» Update Address

Purchase Details

» Payment Options

» Order History

» View Purchased Documents

Profile Information

» Communications Preferences

» Profession and Education

» Technical Interests

Need Help?

» **US & Canada:** +1 800 678 4333

» **Worldwide:** +1 732 981 0060

» Contact & Support

About IEEE *Xplore*   Contact Us   Help   Accessibility   Terms of Use   Nondiscrimination Policy   Sitemap   Privacy & Opting Out of Cookies

IEEE websites place cookies on your device to give you the best user experience. By using our websites, you agree to the placement of these cookies. To learn more, read our   Privacy Policy.

Accept & Close