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| Titolo                  | The Proceedings of 2024 International Conference on Artificial Intelligence and Autonomous Transportation : Volume IV // edited by Jun Liu, Jianjian Yang, Minyi Xu, Quan Yu, Wenchao Shen                                                                                                                                                                                                                                                                                                                                                                                                                                         |
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| Edizione                | [1st ed. 2025.]                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| Descrizione fisica      | 1 online resource (IX, 511 p. 275 illus., 239 illus. in color.)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| Collana                 | Lecture Notes in Electrical Engineering, , 1876-1119 ; ; 1392                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| Disciplina              | 629.8                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| Soggetti                | Automatic control<br>Robotics<br>Automation<br>Computational intelligence<br>Vehicles<br>Artificial intelligence<br>Transportation engineering<br>Traffic engineering<br>Control, Robotics, Automation<br>Computational Intelligence<br>Vehicle Engineering<br>Artificial Intelligence<br>Transportation Technology and Traffic Engineering                                                                                                                                                                                                                                                                                        |
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| Formato                 | Materiale a stampa                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| Livello bibliografico   | Monografia                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| Nota di contenuto       | A Fast Iterative Closest Point-based Autonomous Mobile Robot Localization Method using Map Preprocessing -- Digital twin driven port dynamic scheduling decision support technology for multi-modal transportation -- Research on real-time inspection scheme of tunnel lining surface defects based on YOLOv10 -- Coordinative operation of Urban Rail Trains for Energy saving and Punctuality -- Analysis of train delay regularity in high speed railway -- An Evaluation Method for Transportation Equipment Testing Indicators based on Information Sensitivity -- Virtual coupling technology of urban rail transit: A Sys- |

tematic Literature Review -- Nighttime Road Perception Algorithm Based on Parallel Structure -- High-Speed Maglev Vehicle - Magnetic-Rail System Degradation Stability Operation Analysis Research -- High-Speed Maglev Vehicle - Magnetic-Rail System Degradation Stability Operation Analysis Research.

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## Sommario/riassunto

This book reflects the latest research trends, methods and experimental results in the field of Artificial Intelligence and Autonomous Transportation, which covers abundant state-of-the-art research theories and ideas. As a vital research area that is highly relevant to current developments in a number of technological domains, the topics covered include Autonomous Transportation Systems, Autonomous Transportation Management and Control Technology, Autonomous Transportation Equipment Technology, Vehicular Networking and Information Security, Emerging Technologies and Future Mobility, Intelligent water transportation technology, Cross-Domain Transportation Technology, and so on. The goal of the proceedings is to provide a major interdisciplinary forum for researchers, engineers, academics, and industry professionals to present the most innovative research and development in the field of Artificial Intelligence and Autonomous Transportation. Engineers and researchers from academia, industry, and government will also explore an insight view of the solutions that combine ideas from multiple disciplines in this area. The volumes serve as an excellent reference work for researchers and graduate students working in the areas of rail transportation, electrical engineering, and information technology.

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