

ISSN: 2160-0473

Volume 10, Number 1, January 2020



Journal of Transportation Technologies



ISSN: 2160-0473



<https://www.scirp.org/journal/jtts>

Journal Editorial Board

ISSN 2160-0473 (Print) ISSN 2160-0481 (Online)

<https://www.scirp.org/journal/jtts>

Editor-in-Chief

Prof. Tschangho John Kim

University of Illinois at Urbana-Champaign, USA

Editorial Board

Prof. Khaled Abdelazim Abbas

Egypt National Institute of Transport, Egypt

Prof. Francisco Aparicio

Technical University of Madrid, Spain

Dr. Theo Arentze

Eindhoven University of Technology, The Netherlands

Dr. Felix Caicedo

Pontificia Universidad Catolica de Valparaiso, Chile

Dr. Andres L. Carrano

Rochester Institute of Technology, USA

Dr. Mohammed Chadli

University of Picardie Jules Verne, France

Prof. Shuming Chen

Jilin University, China

Prof. Torbjörn Falkmer

Curtin University, Australia

Dr. Ranjit Godavarthy

North Dakota State University, USA

Dr. Essam H. Almasri

University of Gaza (IUG), Palestine

Prof. Antoine Hobeika

Virginia Polytechnic Institute and State University, USA

Dr. Xinguo Jiang

Southwest Jiaotong University, China

Dr. Felipe Jiménez

Universidad Politécnica de Madrid, Spain

Dr. Jungwook Jun

Virginia Department of Transportation, USA

Prof. Seungmo Kang

Korea University, South Korea

Dr. Weigang Li

University of Brasilia, Brazil

Prof. Chun-Liang Lin

National Chung Hsing University, Chinese Taipei

Dr. Pan Lu

North Dakota State University, USA

Dr. Rui Cunha Marques

Technical University of Lisbon, Portugal

Dr. Babak Mehran

University of Regina, Canada

Prof. Srinivas S. Pulugurtha

The University of North Carolina at Charlotte, USA

Dr. Joaquin Rodriguez

French Institute for Sciences and Technologies of Transport,
Planning and Networks, France

Dr. Adel W. Sadek

University at Buffalo, the State University of New York, USA

Dr. Hualiang Teng

University of Nevada, USA

Prof. Harry J. P. Timmermans

Eindhoven University of Technology, The Netherlands

Dr. Tomer Toledo

Israel Institute of Technology, Israel

Dr. Rafael Toledo-Moreo

Technical University of Cartagena, Spain

Prof. Marianne Vanderschuren

University of Cape Town, South Africa

Prof. Dario Vangi

Florence University, Italy

Dr. Cheng-Lung Wu

University of New South Wales, Australia

Prof. Saffet Yagiz

Nazarbayev University, Kazakhstan

Prof. Xuedong Yan

Beijing Jiaotong University, China

Prof. Lixing Yang

Beijing Jiaotong University, China

Dr. Ruifeng Yu

Tsinghua University, China

Table of Contents

Volume 10 Number 1**January 2020****Container Terminal Land-Utilisation Efficiency in Ghana**

G. K. vanDyck, S. A. Domfeh, G. Konney.....1

Scope and Application of the FIFRA Treated Articles Exemption

L. S. Ebner, D. A. Webb.....16

Generation and Analysis of Hybrid-Electric Vehicle Transmission Shift Schedules with a Torque Split Algorithm

N. J. Connelly, D. I. George, A. C. Nix, W. S. Wayne.....21

Assessing Work Zone Traffic Control Options for 3-to-1 Lane Closures

T. Saha, V. P. Sisiopiku.....50

A Study on Applications and Case Studies Regarding Bluetooth Technology for Travel Time Measurement

D. Yuan, A. Faghri, K. Partridge.....65

Journal of Transportation Technologies (JTTs)

Journal Information

SUBSCRIPTIONS

The *Journal of Transportation Technologies* (Online at Scientific Research Publishing, <https://www.scirp.org/>) is published quarterly by Scientific Research Publishing, Inc., USA.

Subscription rates:

Print: \$79 per issue.

To subscribe, please contact Journals Subscriptions Department, E-mail: sub@scirp.org

SERVICES

Advertisements

Advertisement Sales Department, E-mail: service@scirp.org

Reprints (minimum quantity 100 copies)

Reprints Co-ordinator, Scientific Research Publishing, Inc., USA.

E-mail: sub@scirp.org

COPYRIGHT

Copyright and reuse rights for the front matter of the journal:

Copyright © 2020 by Scientific Research Publishing Inc.

This work is licensed under the Creative Commons Attribution International License (CC BY).

<http://creativecommons.org/licenses/by/4.0/>

Copyright for individual papers of the journal:

Copyright © 2020 by author(s) and Scientific Research Publishing Inc.

Reuse rights for individual papers:

Note: At SCIRP authors can choose between CC BY and CC BY-NC. Please consult each paper for its reuse rights.

Disclaimer of liability

Statements and opinions expressed in the articles and communications are those of the individual contributors and not the statements and opinion of Scientific Research Publishing, Inc. We assume no responsibility or liability for any damage or injury to persons or property arising out of the use of any materials, instructions, methods or ideas contained herein. We expressly disclaim any implied warranties of merchantability or fitness for a particular purpose. If expert assistance is required, the services of a competent professional person should be sought.

PRODUCTION INFORMATION

For manuscripts that have been accepted for publication, please contact:

E-mail: jttts@scirp.org



Call for Papers

Journal of Transportation Technologies (JTTs)

ISSN 2160-0473 (Print) ISSN 2160-0481 (Online)
<https://www.scirp.org/journal/jtts>

Journal of Transportation Technologies (JTTs) is an international refereed journal dedicated to the latest advancement of transportation technologies. The goal of this journal is to provide a forum for scientists and academicians worldwide to promote, share, and discuss various new issues and perspectives in diverse areas of transportation technologies, and to keep a record of the state-of-the-art research in the areas.

Subject Coverage

All manuscripts must be prepared in English, and are subject to a rigorous and fair peer-review process. Accepted papers will immediately appear online followed by printed hard copy. The journal publishes original papers including but not limited to the following topics:

Advanced Driver Assistance Systems	Maritime Transport Management
Advanced Emergency Management Systems (AEMS)	Metro-Rail Transportation
Advanced Materials for Transportation Vehicles	Mobile Terminal Displays
Advanced Traffic Management Systems (ATMS)	Navigation Technology
Automated Baggage Handling and Screening Systems	On-Board Diagnosis
Automated People Movers	Operational Control Centres
Automatic Vehicle Location and Tracking	Pedestrian and Vehicle Detection Technologies
Automotive Software Architecture	Planning and Scheduling Software Packages
Bus Transit Systems	Powertrain Management
Collision Avoidance Systems	Railway Tunnels and Tunneling
Command Control Centres	Railways Management
Communication, Navigation, Surveillance Systems	Smart Card Reader
Computer-Aided Dispatch	Socio-Economical Effect of Environmental Friendly Mobility
Devices to Enhance Pedestrian and Bicyclist Safety	Sustainable Transport Safety Management
Dynamic Traffic Signal Control	Testing Methodology
Electronic Fare Collection	Traffic Control Devices
Flight Information Display Systems	Traffic Psychology
Health and Wellness in Transportation Industry	Traffic Signal Priority System
Incident Reporting Packages	Transport Management
Intelligent Security Systems	Transport Safety
Intelligent Transportation Systems and Traffic Control	Travelers' In-Vehicle and Out-of-Vehicle Information Systems
Intelligent Vehicles	V2I/V2V Communication
ITS Architecture	Variable Message Signing
ITS as Decision Support System	Vehicle Navigation System
Location-Based Services	Vehicle-to-Roadside Communication (VRC)
Marine Communication and Navigation Engineering	Weigh-in-Motion (WIM)

We are also interested in short papers (letters) that clearly address a specific problem, and short survey or position papers that sketch the results or problems on a specific topic.

Notes for Intending Authors

Submitted papers should not have been previously published nor be currently under consideration for publication elsewhere. Paper submission will be handled electronically through the website. All papers are refereed through a peer review process. For more details about the submissions, please access the website.

Website and E-Mail

<https://www.scirp.org/journal/jtts>

E-mail: jtts@scirp.org