Inaugural editorial for the international journal of rail transportation

True, Hans; Zhai, Wanming; Wang, Kelvin C.P.

Published in:
International Journal of Rail Transportation

Link to article, DOI:
[10.1080/23248378.2013.798082](https://doi.org/10.1080/23248378.2013.798082)

Publication date:
2013

Document Version
Publisher's PDF, also known as Version of record

[Link back to DTU Orbit](#)

Citation (APA):
True, H., Zhai, W., & Wang, K. C. P. (2013). Inaugural editorial for the international journal of rail transportation. *International Journal of Rail Transportation*, 1(1), 1-2. <https://doi.org/10.1080/23248378.2013.798082>

General rights

Copyright and moral rights for the publications made accessible in the public portal are retained by the authors and/or other copyright owners and it is a condition of accessing publications that users recognise and abide by the legal requirements associated with these rights.

- Users may download and print one copy of any publication from the public portal for the purpose of private study or research.
- You may not further distribute the material or use it for any profit-making activity or commercial gain
- You may freely distribute the URL identifying the publication in the public portal

If you believe that this document breaches copyright please contact us providing details, and we will remove access to the work immediately and investigate your claim.

See discussions, stats, and author profiles for this publication at: <https://www.researchgate.net/publication/270847678>

Inaugural editorial for the International Journal of Rail Transportation

Article · February 2013

DOI: 10.1080/23248378.2013.798082

CITATIONS

0

READS

51

3 authors:

Hans True

Technical University of Denmark

73 PUBLICATIONS 705 CITATIONS

[SEE PROFILE](#)

Wanming Zhai

Southwest Jiaotong University

114 PUBLICATIONS 1,559 CITATIONS

[SEE PROFILE](#)

Kelvin C. P. Wang

Oklahoma State University - Stillwater

116 PUBLICATIONS 656 CITATIONS

[SEE PROFILE](#)

Some of the authors of this publication are also working on these related projects:

Random analysis, track geometric deterioration [View project](#)

Uncertainty Quantification with Applications to Engineering Problems [View project](#)

All content following this page was uploaded by [Wanming Zhai](#) on 23 March 2015.

The user has requested enhancement of the downloaded file.

This article was downloaded by: [Southwest Jiaotong University]

On: 31 May 2013, At: 19:27

Publisher: Taylor & Francis

Informa Ltd Registered in England and Wales Registered Number: 1072954 Registered office: Mortimer House, 37-41 Mortimer Street, London W1T 3JH, UK

International Journal of Rail Transportation

Publication details, including instructions for authors and subscription information:

<http://www.tandfonline.com/loi/tjrt20>

Inaugural editorial for the International Journal of Rail Transportation

Hans True ^a, Wanming Zhai ^b & Kelvin C.P. Wang ^c

^a DTU Compute, Technical University of Denmark, Matematiktorvet 303B, DK-2800, Lyngby, Kgs, Denmark

^b State Key Laboratory of Traction Power, Southwest Jiaotong University, Chengdu, 610031, China

^c School of Civil & Environmental Engineering, Oklahoma State University, 207 Engineering South, Stillwater, OK, 74078, USA

Published online: 29 May 2013.

To cite this article: Hans True, Wanming Zhai & Kelvin C.P. Wang (2013): Inaugural editorial for the International Journal of Rail Transportation, International Journal of Rail Transportation, 1:1-2, 1-2

To link to this article: <http://dx.doi.org/10.1080/23248378.2013.798082>

PLEASE SCROLL DOWN FOR ARTICLE

Full terms and conditions of use: <http://www.tandfonline.com/page/terms-and-conditions>

This article may be used for research, teaching, and private study purposes. Any substantial or systematic reproduction, redistribution, reselling, loan, sub-licensing, systematic supply, or distribution in any form to anyone is expressly forbidden.

The publisher does not give any warranty express or implied or make any representation that the contents will be complete or accurate or up to date. The accuracy of any instructions, formulae, and drug doses should be independently verified with primary sources. The publisher shall not be liable for any loss, actions, claims, proceedings, demand, or costs or damages whatsoever or howsoever caused arising directly or indirectly in connection with or arising out of the use of this material.

EDITORIAL

Inaugural editorial for the *International Journal of Rail Transportation*

Despite nearly 200 years of modern railway development, there are limited peer-reviewed platforms for knowledge dispersion in the highly multi-disciplinary field of rail transportation.

The resurgence of rail transportation on worldwide basis in recent years requires the development and implementation of the most advanced technologies for high performance, high safety, cost-effectiveness, efficiency, protection of the environment, and sustainability. The rapid development of high-speed railways has entered the largest expansion in history. In the recent 10 years, China has developed a network of high-speed railway lines with a total length exceeding 9356 kilometres, longer than the total length of high-speed railway lines of the rest of the world. In 2020, there will be a fast railway network with a total length of 50,000 kilometres in China including 16,000 kilometres of high-speed railway lines, resulting in the largest high-speed railway network with the highest operational speed. In addition, the construction of high-speed railway networks in several continents will involve the equivalent investment of trillions of US dollars in the next few decades.

On the other hand, urban rail-based mass transit lines and metro systems are experiencing rapid expansion in mainland China as well with completed lines of over 2000 kilometres and another 2000 kilometres under construction. Many countries are embracing railway technology for mass transit and intercity transportation as a primary solution to easing congestion and reducing energy consumption together with a low impact on the environment. Furthermore, freight transport on railways over long distances are in many cases competitive with other means of transport; but in international and transcontinental traffic, the differences in national infrastructure and safety regulations constitute a hindrance for the increase in the efficiency. Heavy-haul of mass commodities will grow in volume to satisfy the needs of the growing world population, and the development of new solutions to the technical problems will continue. In order to improve the safety of railway transportation even further and in order to increase the capacity on railway lines, the signal and the communication systems are in a period of rapid development with increased application of electronic devices and radio-borne exchange of information.

The unprecedented modernisation and expansion of rail transportation systems will require substantial new efforts in scientific research for field-deployable technologies. The launching of the *International Journal of Rail Transportation* by Taylor & Francis Group is to satisfy the growing demands of scientists, engineers and policy-makers to publish, learn and implement the latest scientific findings relevant to rail transportation. As the leader of railway research and education in China, Southwest Jiaotong University is the launching partner of the journal.

The *International Journal of Rail Transportation* aims to provide an open forum for scientists, researchers and engineers of the world to promote the exchange of the latest scientific and technological innovations in rail transportation; and to advance the

state-of-the-art engineering and practices for various types of rail-based transportation systems.

This new journal focuses on the publication of new and original research results in all main areas of railway vehicle, infrastructure, traction power, operation, safety, communication and environment. All significant topics in railway sciences and technologies are covered by the journal including dynamics and mechanics of railway vehicle, track and bridge system; planning and design, construction, operation, inspection and maintenance of railway infrastructure; train operation, control, scheduling and management; railway electrification; signalling and communication; and environmental impacts such as vibration and noise.

The editorial policy of the new journal will abide by the highest level of standards in research rigour, ethics and academic freedom. All published articles in *International Journal of Rail Transportation* have undergone rigorous peer review, based on initial editor screening and anonymous refereeing by independent experts.

We represent the editorial board to invite worldwide researchers, scientists and engineers in the railway field to contribute to the success of this uniquely positioned new academic journal.

Hans True

*DTU Compute, Technical University of Denmark,
Matematiktorvet 303B, DK-2800, Kgs., Lyngby, Denmark*

Wanming Zhai

*State Key Laboratory of Traction Power,
Southwest Jiaotong University, Chengdu 610031, China*

Kelvin C.P. Wang

*School of Civil & Environmental Engineering,
Oklahoma State University, 207 Engineering South,
Stillwater, OK 74078, USA*