

Journal Submission

Delegates attending COMPRAIL 2012 will be invited to submit an extended version of their paper for possible publication in the International Journal of Sustainable Development and Planning, one of the six edited by the Wessex Institute.

Open Access

WIT strongly believes that removing the barrier to research published online will greatly aid progress in all scientific and technical disciplines, as well as all other spheres of knowledge. Many WIT conference and all journal papers are freely available online.

Submission Information

Papers are invited on the topics outlined and others falling within the scope of the meeting. Abstracts of no more than 300 words should be submitted as soon as possible.

Abstracts should clearly state the purpose, results and conclusions of the work to be described in the final paper. Final acceptance will be based on the full-length paper, which if accepted for publication must be presented at the conference.

The language of the conference will be English.

Online submission
wessex.ac.uk/comprail2012

Email submission
bcopland@wessex.ac.uk

Submit your abstract with COMPRAIL 2012 in the subject line. Please include your name, full address and conference topic.

Conference Secretariat

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wessex.ac.uk/comprail2012



COMPRAIL 2012



13th International Conference
on Design and Operation in
Railway Engineering

11 – 13 September, 2012
New Forest, UK



Ashurst Lodge

Location

Spreading over nearly 400 square kilometres of southern England, the New Forest is home to picturesque villages, unspoiled scenery, abundant wildlife and many attractions for visitors. The New Forest was established as a royal hunting ground by the Norman King William I, and 900 years later, it is still owned by the Crown and is administered by the Forestry Commission. Local commoners still have the right to graze their ponies, cattle and pigs on Forest land where they wander freely. Now a National Park, the New Forest is unarguably recognised as one of the most unique wilderness areas in western Europe, where many landscapes have remained virtually unchanged for thousands of years.

Conference Venue

Ashurst Lodge is the home of the Wessex Institute and boasts a purpose-built conference centre and a high standard of accommodation for visitors. The Lodge is situated only 10km from the centre of Southampton, with excellent rail connections to London, and is reasonably close to southern England's main airports, including Heathrow (90km) and Gatwick (120km).

The 13th International Conference on Design and Operation in Railway Engineering (COMPRAIL 2012) will be held in the New Forest, UK. This is the latest in the very successful series of meetings which started in Frankfurt in 1987 and continued in Rome (1990), Washington (1992), Madrid (1994), Berlin (1996), Lisbon (1998), Bologna (2000), Lemnos (2002), Dresden (2004), Prague (2006), Toledo (2008) and Beijing (2010).

The conference aims to update the use of advanced systems, promoting their general awareness throughout the business management, design, manufacture and operation of railways and other emerging passenger, freight and transit systems. It

emphasises the use of computer systems in advanced railway engineering.

The meeting provides a forum for engineers, planners, designers, manufacturers and operators to discuss how they can benefit from the latest developments in railway engineering.

Who should attend

The conference will be of interest to railway management, consultants, railway engineers (including signal and control engineers), designers of advanced train control systems and computer specialists. The meeting also attracts planners of railway network systems,

manufacturers of track, rolling stock, locomotives and other ancillary equipment, who all have a common interest in the development and application of advanced techniques for the solution of problems in railway and other mass transit systems.

Conference Topics

Advanced train control

Planning

Timetable planning

Rescheduling

Risk management

Safety and security

Maglev and high-speed railways

Traffic control and safety of high-speed railways

Metro and other transit systems

Communications and signalling

Energy supply and consumption

Driverless and automatic train operation

Operations quality

Computer techniques and simulations

Railway vehicle dynamics

Dynamics and wheel/rail interface

Monitoring and maintenance

Crack, damage and fatigue problems

Conference Chairmen

C A Brebbia

Wessex Institute of Technology, UK

N Tomii

Chiba Institute of Technology, Japan

P Tzieropoulos

Federal Polytechnic School of Lausanne, Switzerland

J M Mera

CITEF (Railway Technology Research Centre), Spain

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Benefits of Attending

Conference Books Papers are published in paper and digital format and widely distributed throughout the world. Delegates will receive a copy of the book in paper or digital format at the time of registration. Papers are also archived at <http://library.witpress.com>

Open Access Authors have the option to make their work available in Open Access format for wider dissemination.

Journal Papers Presenters will be invited to submit a paper to one of the six International Scientific Journals edited by the Wessex Institute.

Networking Participants can present their research and interact with experts from around the world, becoming part of a unique community.

Indexing and archiving of conference papers

Papers presented at Wessex Institute conferences are referenced by CrossRef and regularly appear in notable reviews, publications and databases, including referencing and abstract services such as SCOPUS, Compendex, ISI Web of Knowledge, Index to Scientific and Technical Proceedings, ProQuest and Scitech Book News. All conference books are archived in the British Library and American Library of Congress.

- Papers presented at COMPRAIL 2012 will appear in a volume of **WIT Transactions on the Built Environment** (ISSN: 1746-4498, Digital ISSN: 1743-3509).
- WIT Press ensures maximum dissemination of your research throughout the world through its own offices in Europe, the USA and its extensive international distribution network.
- All conference papers are archived online at <http://library.witpress.com> where they are immediately and permanently available to the international scientific community.