

Call for Papers

# FOREST FIRES 2012

3<sup>rd</sup> International Conference  
on Modelling, Monitoring  
and Management of Forest

22 – 24 May, 2012  
New Forest, UK



**WESSEX INSTITUTE  
OF TECHNOLOGY**

Advancing International Knowledge Transfer

**Organised by:**

Wessex Institute of Technology, UK

**Sponsored by:**

WIT Transactions on Ecology  
and the Environment

International Journal of Sustainable  
Development and Planning

International Journal of Safety  
and Security

[wessex.ac.uk/fires2012](http://wessex.ac.uk/fires2012)



**Following the success of the first two International Conferences on Forest Fires held in Toledo (2008) and in Kos (2010), it has been decided to reconvene the meeting in the New Forest, UK, at the Wessex Institute of Technology campus.**

This conference aims to address all aspects of forest fires, from fire propagation in different scenarios to the optimum strategies for fire-fighting. It will also cover issues related to economic, ecological, social and health effects.

Forest fires are very complex phenomena which, under the right physical conditions, can rapidly devastate large areas, as demonstrated by recent events.

Different approaches are required for controlling fires in rural areas as opposed to urban environments, and strongly depend on the physical characteristics of the surrounding region. It also depends on weather conditions, regional activities, forest type, as well as social and economic factors.

At present there is insufficient knowledge of the behaviour of fires and how they propagate. This lack of appropriate studies makes these phenomena very difficult to control, and

is one of the most important obstacles to development of a reliable decision support system. Public concern in this topic is increasing as uncontrolled fires may lead to major ecological disasters, and usually result in negative economic and health implications for the region.

Forest fire analysis and mitigation requires the development of computer codes that can take into consideration a large number of different parameters. This conference will discuss the latest research and applications of available tools to analyse and predict the spread of forest fires in an attempt to prevent or reduce major loss of life and property as well as damage to the environment.

## 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.



## Conference Chairman

### **C A Brebbia**

Wessex Institute of Technology, UK

## International Scientific Advisory Committee

### **M Chas-Amil**

University of Santiago de Compostela, Spain

### **K Chetehouna**

ENSI de Bourges, France

### **L Corgnati**

Politecnico di Torino, Italy

### **L Courty**

ENSI de Bourges, France

### **C Fernandez-Pello**

University of California, Berkeley, USA

### **M Lalkovič**

National Forest Centre, Slovakia

### **F Lopez**

Universidad Carlos III de Madrid, Spain

### **A Miranda**

Universidade de Aveiro, Portugal

### **G Perona**

Politecnico di Torino, Italy

### **D Rideout**

Colorado State University, USA

### **R Soares**

University of Paraná, Brazil

## Conference Topics

Detection, monitoring  
and response systems

Decision support systems

Resource optimisation

Risk and vulnerability assessment

Computational methods  
and experiments

Air quality and health risks

Environmental impact

Emergency response systems

Human behaviour and education

Economic impact

## 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 Forest Fires 2012 will appear in a volume of **WIT Transactions on Ecology and the Environment** (ISSN: 1746-448X, Digital ISSN: 1743-3541).
- 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.





## Journal Submission

Delegates attending Forest Fires 2012 will be invited to submit an extended version of their paper for possible publication in the International Journal of Sustainable Development and Planning or the International Journal of Safety and Security Engineering, two of the six journals edited by the Wessex Institute.



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).

## 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/fires2012](http://wessex.ac.uk/fires2012)

### Email submission

[gwest@wessex.ac.uk](mailto:gwest@wessex.ac.uk)

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

## Conference Coordinator

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