Earthquake Resistant Engineering Structures VI
SIXTH WORLD CONFERENCE ON
EARTHQUAKE RESISTANT ENGINEERING STRUCTURES

ERES VI

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Preface

This book contains selected papers presented at the 6th International Conference on Earthquake Resistant Engineering Structures (ERES) which took place in Bologna, Italy in 2007. This meeting is one of the successful series of conferences organised by the Wessex Institute of Technology (WIT). The series started in Thessaloniki (1996), followed by Catania (1999), Malaga (2001), Ancona (2003) and Skiathos (2005).

The meeting provides a forum for the discussion of the latest developments in innovative design and construction of new earthquake resistant structures as well as the retrofitting of existing buildings. The success of the ERES Conference is closely linked to the innovation and quality of the presentations. It continues to attract promising young researchers as well as familiar names in the field of earthquake engineering. This combination is the main reason why the ERES meetings continue to bring to the attention of the international scientific community original high quality papers.

The importance of conferences like ERES is that they allow rapid dissemination of the latest research before the lengthy process of appearing in learned journals is undertaken. The WIT proceedings – which are produced in time for the conference – are immediately followed by the archiving of all papers in the Transactions of Wessex Institute Library where they are permanently and widely available (www.witpress.com). The Library contains all WIT conference papers since 1993 and attracts nearly a quarter of a million abstract downloads per year. The importance of this archive can not be overemphasised as it is essential for researchers and practitioners to have rapid access to the latest developments, particularly in fields such as earthquake engineering.

The ERES/07 papers appearing in the present book have been divided into the following sections:

- Earthquake resistant design
- Bridges
- Seismic isolation
- Passive protection devices and seismic isolation
- Self-centering systems
- Site effects and geotechnical aspects
- Seismic behaviour and vulnerability
• Lifelines
• Monitoring and testing
• Retrofitting
• Structural dynamics

The Editor appreciates that the task of editing this volume would not have been possible without the generous cooperation of the members of the International Scientific Advisory Committee and other colleagues to whom he is indebted for reviewing the papers. He is also grateful to all authors for their excellent contributions.

The Editor
Bologna, Italy
2007
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