



Themed issue of the International Journal of Disaster Resilience in the Built Environment (IJDRBE)

on

“End-to-end tsunami early warning systems”

in collaboration with

IOC-UNESCO IOTWMS

Guest Editors

Professor Priyan Dias, Department of Civil Engineering, University of Moratuwa, Sri Lanka

Dr Harkunti Rahayu, School of Architecture, Planning and Policy Development, Institute Technology of Bandung, Indonesia

Background

Experience over recent years of the impacts of tsunamis has shown that inadequate preparation for, and response to, emergency situations have contributed to widespread damage and the avoidable loss of lives and livelihoods. A 2015 United Nations (UN) report estimates that each year, an additional 60,000 people and \$4 billion (US\$) in assets are exposed to the threat of tsunami hazard. As demonstrated by the human and economic losses from the 2004 Indian Ocean and 2011 Tōhoku disasters, and most recently, in Palu, Indonesia, tsunamis inflict death and damage through violent, powerful flooding along the world's coastline.

Despite significant progress and achievements in the development of regional warning systems in the Pacific and Indian Oceans, recent studies and practical experiences have highlighted limitations in detection and communication systems, and also inadequate awareness, planning and coordination. There is also a need to position the tsunami early warning systems and preparedness in the wider context of social change in the coastal societies and communities at risk, and for critical reflection of 'on-the-ground' experiences and lessons learnt.

This special issue is a joint initiative between the International Journal of Disaster Resilience in the Built Environment and the Intergovernmental Coordination Group for the Indian Ocean Tsunami Warning and Mitigation System (ICG/IOTWMS), which was formed in response to the tragic tsunami on December 26th 2004, in which over 230,000 lives were lost around the Indian Ocean region.

It is hoped that the special issue will stimulate the development and sharing of new knowledge on tsunami detection, warning and dissemination, tsunami risk assessment and mitigation, community awareness and preparedness.

Contents of the themed issue:

High quality original papers are invited for this themed issue on “end-to-end tsunami early warning systems”. All papers will be subject to the journal’s double-blind peer review process. This issue will cover the following sub themes related to tsunami (but not limited to them):

- Detection and monitoring
- Forecasting
- Tsunami hazard assessment
- Vulnerability assessment and reduction
- Emergency response planning

- Community preparedness, evacuation planning and infrastructure
- Sustainability of tsunami warning system, including maintenance, financial resources and intergovernmental coordination

Submissions

We are calling for abstracts (200 words) with a proposed title, and up to three key words. These will be reviewed against the themed issue scope. Authors of the selected abstracts will be invited to submit full papers according to the journal's author guidelines:

http://www.emeraldgrouppublishing.com/products/journals/author_guidelines.htm?id=ijdrbe

Further instructions on the preparation of full manuscripts will be issued to authors of selected papers.

Any queries or abstracts should be submitted to the Guest Editors. The themed issue editors are Professor Priyan Dias, Dr Harkunti Rahayu and Dr Srinivasa Kumar Tummala.

Please forward your queries to Prof Priyan Dias (priyandias55@gmail.com).

Important deadlines

- 15th January 2019: Deadline for abstract submission
- 30th January 2019: Decision and call for full papers
- 30th April 2019: Full paper submission

Dedication to Professor Samantha Hettiarachchi

This special issue is dedicated to Professor Samantha Hettiarachchi, Professor of Civil Engineering at the University of Moratuwa in Sri Lanka, and expert in coastal engineering and disaster risk reduction, who passed away in 2018. After the 2004 Indian Ocean Tsunami, Professor Hettiarachchi provided scientific leadership to the installation of the Indian Ocean Tsunami Warning & Mitigation System under the auspices of UNESCO, ending up as Vice-Chairman and Acting Chairman of its steering group.

International Journal of Disaster Resilience in the Built Environment (IJDRBE)

The International Journal of Disaster Resilience in the Built Environment is edited by Professor Dilanthi Amaratunga and Professor Richard Haigh from the Global Disaster Resilience Centre at the University of Huddersfield, UK. The journal aims to further knowledge and understanding of the link between the built environment and disaster mitigation, response and reconstruction. This is a key journal in the field to promote research and scholarly activity that examines the role of building and construction to anticipate and respond to disasters that damage or destroy the built environment. Although the origins and causes of disasters are varied, the consequences to human society are frequently similar: extensive loss of life, particularly among vulnerable members of a community; economic losses, hindering development goals; destruction of the built and natural environment, increasing vulnerability; and, widespread disruption to local institutions and livelihoods, disempowering the local community.

The Journal is indexed in: British Library, Construction and Building Abstracts, ICONDA - The International Construction Database, Business Source Premier (EBSCO), ABI INFORM Global (ProQuest), Cambridge Scientific Abstracts (ProQuest), INSPEC, SCOPUS and in Emerging Sources Citation Index (ESCI) by Clarivate Analytics (formerly ISI Thomson Reuters).

Further details on the journal is available at: <http://www.emeraldgrouppublishing.com/ijdrbe.htm>