International Journal of Disaster Resilience in the Built Environment

Prof. Richard Haigh & Prof. Dilanthi Amaratunga

ICG/IOTWMS Working Group 1 on Tsunami Risk, Community Awareness and Preparedness
Intersessional Meeting – 17 & 18 April 2023

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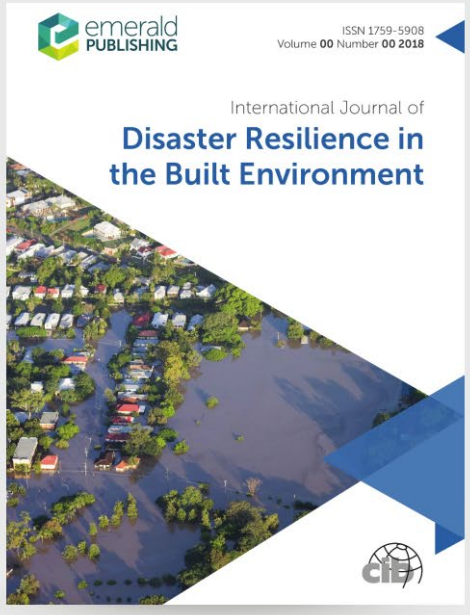

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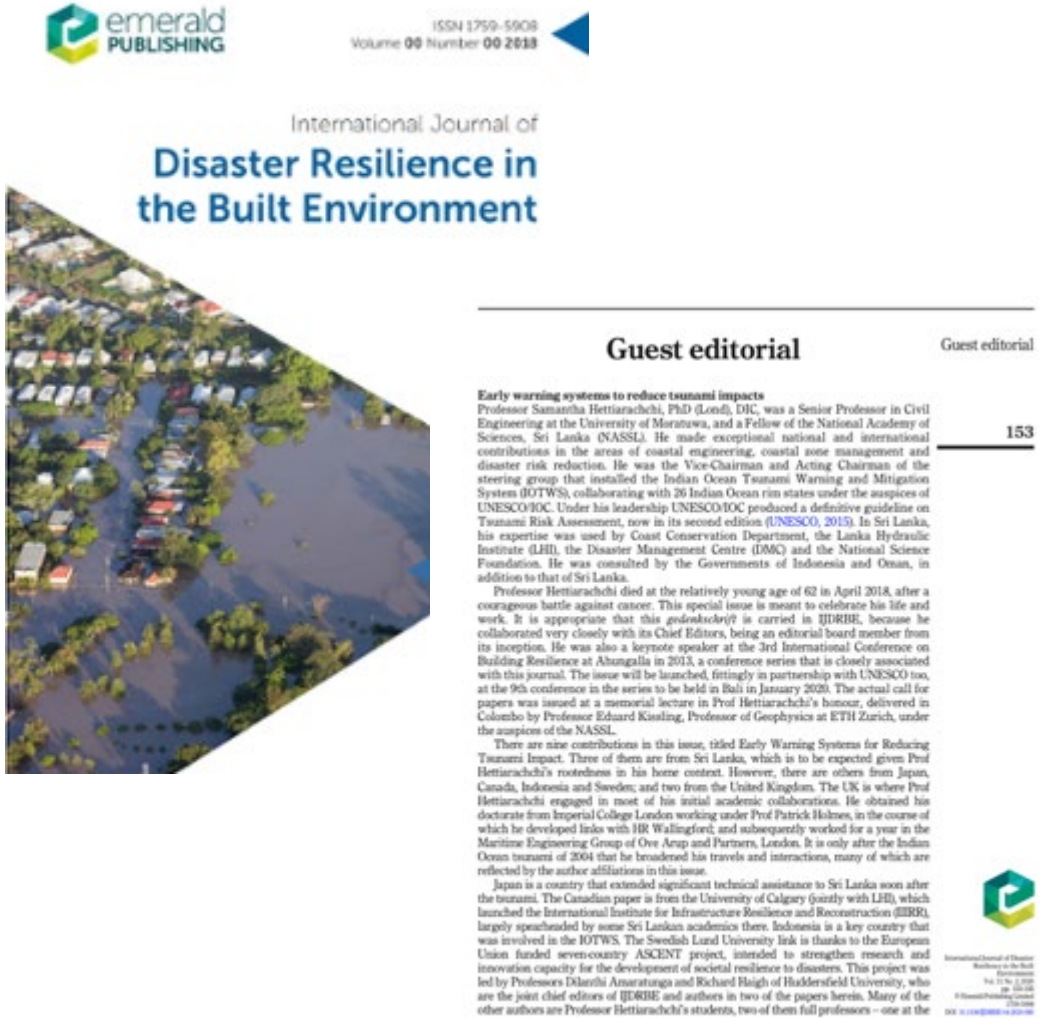
International Journal of Disaster Resilience in the Built Environment

- Special issue in memory of Professor Samantha Hettiarachchi
- Guest Editor Prof. Priyan Dias
- Call for papers in 2019; Published in 2020, Volume 11, Issue 2
- 9 research articles & 1 editorial
- Approximately 7,000 downloads
- 2 research articles have already been cited in 10+ other articles

International Journal of Disaster Resilience in the Built Environment

- In 2021, we issued another call for a special issue on *Technology enabled tsunami early warning: opportunities, gaps, barriers and challenges*
- We did not receive enough papers to justify an issue from the IOTWMS community
- However, after peer review, 3 related papers were accepted and are being published in regular issues



Several papers have been published in the journal which are directly related to IOTWMS themes

Article Publication date: 28 January 2020

HTML
PDF (3.1 MB)

A study of people-centered early warning system in the face of near-field tsunami risk for Indonesian coastal cities

Harkunti Pertiwi Rahayu, Louise K. Comfort, Richard Haigh, Dilanthi Amaratunga and Devina Khoirunnisa

This study aims to identify the gaps in current policy and propose a viable framework for policy improvement regarding people-centered tsunami early warning chain in...

View summary and detail

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Article Publication date: 14 January 2020

Vulnerability assessment of reinforced concrete buildings in Indonesia subjected to tsunami inundation forces

Dicky Hanggara and Anil Christopher Wijeyewickrema

This paper aims to evaluate the vulnerability of typical low-rise reinforced concrete (RC) buildings located in Indonesia subjected to tsunami loading.

Article Publication date: 15 December 2020

Guiding factors for planning public open spaces to enhance coastal cities' disaster resilience to tsunamis

R.R.J. Chathuranganee Jayakody and Dilanthi Amaratunga

Public open spaces (POS) in cities are often measured as a strength to enhance cities' sustainability with a contribution to the three pillars: economic, social and...

Article Publication date: 4 January 2022

Review of Tsunami early warning system and coastal resilience with a focus on Indian Ocean

Indrajit Pal, Subhajit Ghosh, Itesh Dash and Anirban Mukhopadhyay

Article Publication date: 14 January 2020

An update of proposed Sri Lanka warning system for east and west coast tsunamis

Sanjeewa Wickramaratne, S. Chan Wirasinghe and Janaka Ruwanpura

Based on the existing provisions/operations of tsunami warning in the Indian Ocean, authors observed that detection as well as arrival time estimations of regional tsunami...

Article Publication date: 11 October 2019

A multi-scenario assessment of the seismogenic tsunami hazard for Bangladesh

Janaka J. Wijetunge

This paper aims to describe a multi-scenario assessment of the seismogenic tsunami hazard for Bangladesh from active subduction zones in the Indian Ocean region. Two...

Article Publication date: 23 April 2020

Applicability of the PTVA-4 model to evaluate the structural vulnerability of hospitals in Sri Lanka against tsunami

Sathiyanathan Harisuthan, Hashan Hasalanka, Devmini Kularatne and Chandana Siriwardana

This paper aims to identify the specific parameters in developing a framework to assess the structural vulnerability of hospital buildings in Sri Lanka against tsunami...

Article Publication date: 28 January 2020

HTML
PDF (683 KB)

The upstream-downstream interface of Sri Lanka's tsunami early warning system

Richard Haigh, Maheshika Menike Sakalasuriya, Dilanthi Amaratunga, Senaka Basnayake, Siri Hettige, Sarath Premalal and Ananda Jayasinghe Arachchi

The purpose of this paper is to deliver a detailed analysis of the functioning of upstream-downstream interface process of the tsunami early warning and mitigation system...

View summary and detail

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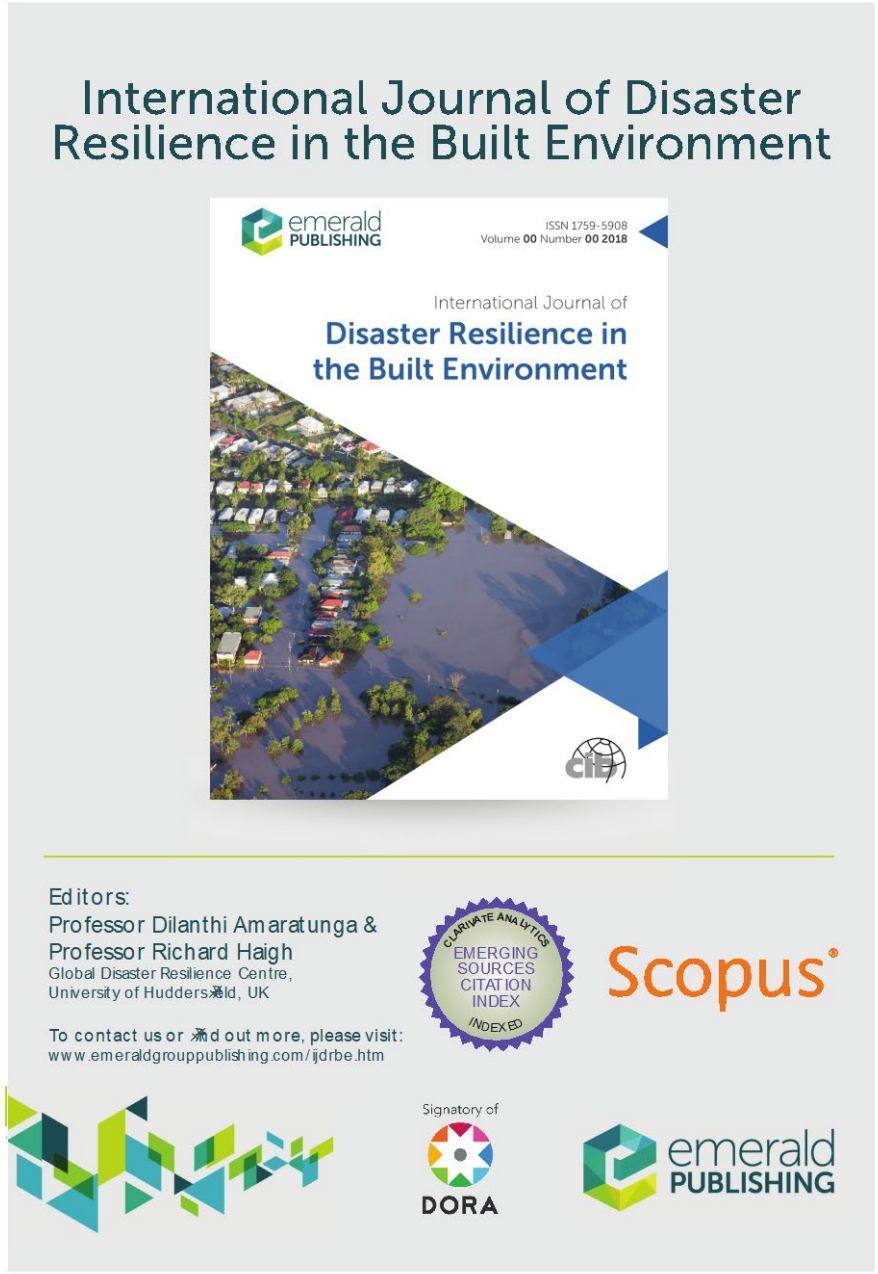

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We continue to welcome submissions or special issue proposals from IOTWMS / tsunami related research