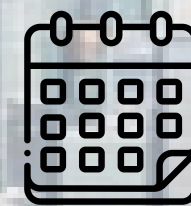


# PROTECT2024



13 - 16 August 2024

9th International Colloquium on Performance,  
Protection & Strengthening of Structures  
Under Extreme Loading & Events



Singapore

The PROTECT 2024 Steering Committee cordially invites you to the Ninth International Colloquium on Performance, Protection and Strengthening of Structures under Extreme Loading and Events.

PROTECT 2024 will bring together academics, industry personnel and practitioners from around the world to deliberate on the most up-to-date international research findings in this rapidly advancing field.

The primary objective of PROTECT 2024 is to provide a platform for students, faculty, producers, designers, builders and consultants to acquaint themselves with cutting-edge research. The ultimate aim of PROTECT 2024 is to enable cross-fertilization of ideas such that our structures become safer under extreme loading and events.

## PROTECT 2024 IS ACCEPTING MANUSCRIPTS IN THE FOLLOWING AREAS :

### 1. Performance of structures

- Under impact loading, blast and explosive loading, fire, and seismic loading

### 2. Strengthening of structures for extreme loading

- Assessment of structural condition
- Non-Destructive Testing (NDT)
- Coatings and surface treatments
- Strengthening and repair methods
- Retrofitting for seismic loading
- Fire protection

### 3. Performance of materials under extreme loading

- Constitutive response under high strain-rates
- Influence of low and high temperatures (fire)
- Cyclic and other dynamic loading
- Testing methods, standardization and performance criteria

### 4. Structural management and protection

- Protection concepts and design
- Sensor development and signal processing
- Structural health monitoring (SHM) and sensing
- Data analytics and big-data, applied to SHM
- Machine learning and active controls
- Cyber-physical interfaces
- Early warning systems
- Green and sustainable construction

### 5. Progressive collapse of structures

- Experimental analysis of structures under blast-induced collapse
- Numerical investigation on collapse of structures under blast or other extreme events
- Theoretical analysis method for progressive collapse of structures
- Risk assessment method for progressive collapse

## KEYNOTE SPEAKERS (KEEP UPDATING)



Prof Hao Hong  
Guangzhou University, China  
Curtin University, Australia



Prof Li Guoqiang  
Tongji University,  
China



Prof Vasant Matsagar  
Indian Institute of Technology,  
India



Prof Piotr W. Sielicki  
Poznan University of Technology,  
Poland



Prof Wu Bo  
South China University of Technology,  
China

## KEY DEADLINES

Paper submission deadline  
30 January 2024

Submission of final manuscript  
15 May 2024

Acceptance notification to authors  
15 February 2024

Early Bird Registration  
Ends on 30 May 2024

Submission of full paper  
15 March 2024

Regular Rate Registration  
From 31 May 2024

Acceptance notification to authors  
30 April 2024

PROTECT 2024 Conference  
13 - 16 August 2024

## REGISTRATION & FEES (USD)

Registration will be available online through the conference website.

	General	Author	Student
Before May 30, 2024	\$750	\$650	\$300
After May 31, 2024	\$900	\$800	\$450

## ABSTRACT SUBMISSION

- In the abstract submission, kindly denote the presenter using the symbol (#). It is assumed that each abstract corresponds to a single presentation.
- It is NOT mandatory to submit a full paper to attend the conference, but authors are encouraged to submit their original and high-quality papers to PROTECT 2024.
- Only papers No less than 6 pages as per the template provided will be considered for publication in an indexed proceeding. 6 pages is the minimum, but hopefully 8-10 pages, and additional pages are welcome.
- All accepted conference papers will be published by Springer and indexed in Scopus, EI-Compendex and Web of Science. *Authors of selected papers will be invited to submit extended manuscripts to Engineering Structures.*
- Best paper awards await high quality papers.
- Best presentation awards will be only awarded to PhD students.

Organised by :



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SUBMIT  
ABSTRACT



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Why singapore?



Where flowers blossom everyday!



Nanyang Technological University (Ranked 26th in QS)



School of Civil and Environmental Engineering  
(Civil and Structural Engineering ranked 9th in QS)

