

Invitation and Call for Abstracts for AFGS 2021

Dear Colleagues and Friends,

We are pleased to invite you to the **13th Asian Forum on Graphic Science (AFGS 2021)**, which will take place in **Hong Kong on 6-8 December 2021**.

The AFGS 2021 aims to provide a platform for experts and scholars to exchange and discuss in the fields of **Applied Graphics and Geometry for Art, Architecture and Construction Engineering, Computer Graphics, Graphics Education, Theoretical Graphics and Geometry and other related fields**. Selected best papers presented in the conference that fit the scope and mission of *Automation in Construction* or *Visual Computing for Industry, Biomedicine, and Art*, will be considered to be published in the journals after the papers are updated and extended.

The participants are not confined to the Asian region in AFGS 2021. Welcome experts and scholars from all over the world to attend the conference. The official conference language is English. More information about the AFGS 2021 can be found on the Conference website: <https://afgs2021.com/>.

AFGS evolved from its predecessor Japan–China Joint Conference on Graphics Education and was an international conference held jointly by the Japan Society for Graphic Science and China Graphics Society focusing on graphics topics since 1993. Over nearly three decades, AFGS have earned its reputation for quality and for being the largest Graphic Science conference held even-numbered years in Asia. With your participation and contribution, we believe we can grow this reputation even further.

Although the plan remains to hold the conference physically at the Hong Kong Polytechnic University in Hong Kong, the Organizing Committee will decide if the conference needs to move to a hybrid or virtual setting depending on pandemic severity on July 31st.

Important Dates

- Submission of Abstracts: 30 May 2021
- Notification of Abstract Acceptance: 15 June 2021
- Submission of Full Paper: 31 July 2021
- Submission of Final Paper: 31 August 2021

**The conference registration system will be open on August 1st if the plan remains to hold the conference physically is not changed.*

- Early-bird registration: 1 August – 30 September 2021
- Regular registration: 1 October – 30 November 2021

Dr. Hsi-Hsien WEI

On behalf of Organizing Committee

Prof. Heng Li

Dr. Chi-Hung Lin

The Hong Kong Polytechnic University

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Scope and Topics

Papers are invited on topics related to the general concept of Graphic Science. Themes of interest include, but are not limited to the list given below:

Theoretical Graphics and Geometry

Theoretical Graphics
Geometry of Curves and Surfaces
Kinematic Geometry
Descriptive Geometry
Computer Aided Geometric Design
Computational Geometry

Applied Graphics and Geometry for Art, Architecture and Engineering

Modeling of Objects, Application of Geometry in Arts and Architectures
Application of Geometry in Arts and Architectures
Geometric Aspects of Technical Art and Design
Graphic simulation in Urban and Territorial Studies
Building Information Modelling
Digital Twin
Mixed reality and visualization in engineering
Aspects of Geometry and Graphics in Life Sciences
Computer Aided Design and Drafting
Product Modeling
Graphics Standards

Computer Graphics

Computer Animation and Game Technology
Geometric and Solid Modeling
Image Synthesis
Pattern Recognition
Digital Image Processing
Scientific and Technical Visualization
AI-enabled Computer Graphics

Graphics Education

Education of Descriptive Geometry and Graphics
Education Technology Research
Multimedia Educational Software Development
E-learning
Educational System / Educational Software Development Tool
MOOCs and Emerging Classics