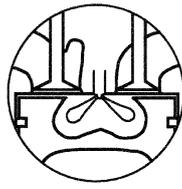


2<sup>nd</sup> Call for Papers



# THE 10th INTERNATIONAL CONFERENCE ON MODELING AND DIAGNOSTICS FOR ADVANCED ENGINE SYSTEMS

**COMODIA 2022**

**5<sup>th</sup> - 8<sup>th</sup> July 2022**

**Hokkaido University, Sapporo, Japan**

Organized by  
The Engine Systems Division  
The Japan Society of Mechanical Engineers



## **Key Dates for Abstract, Draft and Final Submissions**

Abstract Deadline	December 13, 2021 (Extended)
Full-paper (or Extended summary) Draft Deadline	January 15, 2022
Final manuscript Deadline	April 30, 2022

Online presentation platforms will be prepared as well as the onsite venue regardless of the COVID-19 situation.

**Notice:** You can choose from two options to apply to participate in COMODIA 2022 with a technical presentation:

1. As in the past, you may submit a manuscript of 6~10 pages in length, along with a completed copyright-transfer form. Your manuscript will be reviewed by the Technical Committee who will determine if is appropriate for a COMODIA presentation and provide feedback to improve the quality of the manuscript.

2. Alternatively, you may submit a two-page extended summary (without a copyright-transfer form) and the Technical Committee will review it to judge whether it is appropriate for a COMODIA presentation and also to confirm the quality of the work. This new alternative will allow you to submit a full manuscript to a journal of your choice without danger of copyright infringement.

Please select one of these two options when you submit your initial approximately 500 words abstract from the following web-site.

<https://www.jsme.or.jp/conference/comodia2022/index.html>

## **Organized Sessions**

OS1: Thermal Efficiency Improvement in SI Engines

OS2: Thermal Efficiency Improvement in CI Engines

OS3: Modeling and Engine Control

OS4: Chemical Reaction Analysis

OS5: Aftertreatment

OS6: Lubrication

OS7: Carbon neutral

## **General Subjects for Presentation**

- Diesel Combustion

Combustion process, Mixture formation, PM/PN and NO<sub>x</sub> control in cylinder

- SI Combustion

Combustion process, Mixture formation, Knock, DI-SI combustion, PM/PN

- HCCI/RCCI/PCCI Combustion

Combustion process and control, Fuel effect, Engine control

- Spray and Combustion

Fuel injection, Spray, Spray combustion, Atomization, Nozzle

- Thermal and Fluid Science

Chemical reactions, Fundamental issues in combustion, Heat transfer and fluid engineering

- Measurement and Diagnostics

Laser diagnostics, Imaging, Gas sampling and analysis, Sensors

- Modeling and Simulation

CFD, CI and SI combustion model, RANS, LES and DNS, Engine system simulation

- Exhaust Emissions and Measurements

After-treatment for CI and SI engines, Emission measurement and testing, RDE

- Fuels

Gaseous fuels, Alternative fuels

- Gas Engine

Combustion in stationary gas engine

- Lubricants, Engines and Engine Components

Lubricants and additives, Newly developed engines, Supercharging

- Engine Control

Variable system (valve, compression ratio, flow rate etc.), On board system

- Thermal management

Heat recovery, Heat rejection

**Notice:** Selected presentations will be invited to submit to the COMODIA 2022 special issue of International Journal of Engine Research (IJER)