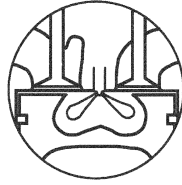


# 2<sup>nd</sup> Call for Papers



## 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	November 30, 2021
Full-paper (or Extended summary) Draft Deadline	January 15, 2022
Final manuscript Deadline	April 30, 2022

**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 word 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)