

Call for Papers



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

COMODIA 2022

5th - 8th July 2022

Hokkaido University, Sapporo, Japan

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



COMODIA 2021 has been postponed to COMODIA 2022 in Sapporo.

<http://www.jsme.or.jp/conference/comodia2022/>

Key Dates for Abstract, Draft and Final Submissions

Abstract Deadline	November 30, 2021
Full-paper Draft Deadline	January 15, 2022
Final Paper Deadline	April 30, 2022

Abstract of proposed contributions should be submitted to the website at:
<http://www.jsme.or.jp/conference/comodia2022/>

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: Lubricants

General Subjects for Presentation

- Diesel Combustion

Combustion process, Mixture formation, PM/PN and NOx 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 papers will be invited to submit it to the COMODIA 2022 special issue of International Journal of Engine Research (IJER).