



Call for Papers

The 5th International Conference on Design Engineering and Science
November 3 - 5, 2020, Kitakyushu, Japan

Organizer:

Japan Society for Design Engineering

Supporters:

The Japan Society of Mechanical Engineers
The Japan Society for Precision Engineering
Japan Society for the Science of Design
The Robotics Society of Japan

Conference Chairperson:

TOMIOKA, Jun, President, JSDE

Executive Committee :

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MORI, Akihisa (Sojo Univ.)

OTSU, Takefumi (Oita Univ.)

OUGIYA, Yasuhiko (Nagasaki Univ.)

TOMIZU, Haruo (SDI Japan)

Date:

November 3 (Tue) – 5 (Thu), 2020

Venue:

Kitakyushu International Conference Center

Scope of the conference:

Nowadays the globalization in design engineering and science field has been rapidly progressing under the background of the evolution of the computer and information technology. The systematization and reorganization of the academic field are advanced in many nations in the world. The Japan Society for Design Engineering (JSDE) was established as the Japan Society for Mechanical Design and Drafting in 1966 and has continued to contribute to the development of the design engineering especially in mechanical engineering field through the annual conferences and publishing the journals. Many researchers, engineers and educators in the world met at ICDES2005 in Vienna, Austria, ICDES2010 in Tokyo, Japan, ICDES2014 in Pilsen, Czech Republic and ICDES2017 in Aachen, Germany, and discussed on many issues on design engineering and science. Then the fifth conference will be held in Kokura, Japan in 2020 under the auspices of the City of Kokura. The conference will also promote strong interactions between academic and industry in all the aspects of design engineering and science, including human resource development and education.

Main theme:

The theme of ICDES2020 is then set as

New Decade of Design Engineering and Science

Technical Sessions:

In addition to the regular tracks of technical presentations, the technical program will also feature several invited sessions with country, industry and technological specific theme. Special emphasis will be placed on the innovation in design engineering and science. Topics of interest include, but are not limited to the followings:

(1) Design Methodology

Design process, Evaluation of design, Design assurance, Conceptual design, Ideation, Ethics in design, Design strategy, Reliability, Mechatronics design, Kansei design

(2) Design and Development

Design of mechanical elements, Mechanical synthesis, Robotics, Linkage, Cam mechanism, Die cast, Biomedical device, Control system design, Welfare device, Vehicle dynamics design, Thermal design, Strength of materials, FSI (fluid-structure interaction), Human engineering

(3) Design and Production

Design management, Life cycle design, Producibility, Production planning, Inverse manufacturing, Reverse engineering, Recycling technology, Machine tool, Automation design, Rapid prototyping, Additive manufacturing

(4) Computer Aid for Design

2D/3D-CAD, CAM, CAE, Artificial Intelligence, Expert system, Knowledge management, Database, Computer graphics, Tool path design, Finite element method, CFD (computational fluid dynamics), Optimization method, Dynamical simulation, Modeling

(5) Accuracy and Measurement

Surface characteristics, Tribology, Tolerance, Truncation, On-machine measurement, Industrial standard

(6) Design Education

Creative design education, Project based learning, CAI, Virtual reality, E-learning, Technology transfer, On hand learning, Robot contest, Active learning

(7) Others Related to Design Engineering and Science and Workshop

Important dates:

Submission of contributed papers	December 9, 2019 January 20, 2020
Notification of acceptance of contributed papers	March 16, 2020
Submission of camera ready manuscripts	May 11, 2020
Conference program	June 15, 2020
Deadline for early registration	September 14, 2020

Program (Tentative):

November 3rd (Tue)
 Registration (with soft drinks)
 November 4th (Wed)
 Opening ceremony
 Special speech
 Technical sessions (parallel)
 Buffet dinner (Banquet)
 November 5th (Thu)
 Technical sessions (parallel)
 Closing ceremony

Conference fees:

	Until Sep. 14, 2020	From Sep. 15, 2020
Conference attendee (including speaker)	55,000 Jpn Yen	65,000 Jpn Yen
Student conference attendee (including speaker)	25,000 Jpn Yen	35,000 Jpn Yen
Banquet fee for an additional guest (including student)	10,000 Jpn Yen	10,000 Jpn Yen

The conference fee includes registration, proceedings, banquet and coffee/tea breaks.

Conference Website:

More details are available in the following JSDE website shortly:

<http://www.jsde.or.jp/icdes2020/>

Electronic submission:

Manuscripts are submitted from the following site hosted by Microsoft CMT, before the deadline.

<https://cmt3.research.microsoft.com/User/Login?ReturnUrl=%2F5ICDES2020>

Registration is required if you first access to the submission site. After logging in, click [The 5th International Conference on Design Engineering and Science (ICDES2020 organized by JSDE)] (Start Date 11 / 2/2020) from [All Conferences]. Click [Create new submission] and follow the instructions to upload the file. Even after the file is uploaded, it can be replaced with the revised version.

Optional programs:

The executive committee is now planning the social program for accompanying people. They will be announced soon at the website. That must be interesting.