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# IX. NATIONAL HYDRAULICS & PNEUMATICS CONGRESS AND EXHIBITION

WITH INTERNATIONAL PARTICIPATION

**16-19** November  
2022

MMO TEPEKULE  
CONVENTION AND EXHIBITION CENTRE

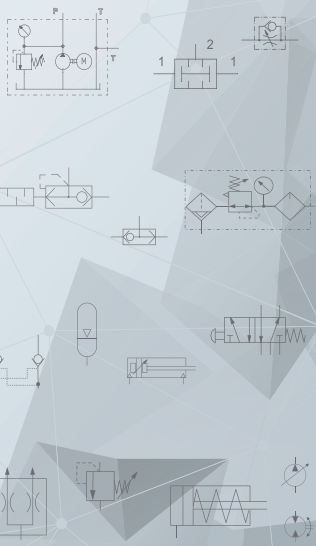


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## OBJECTIVES OF THE CONGRESS

The main objective of the Congress is to contribute to the improvement of Hydraulics and Pneumatics technologies.

**The Congress also provides an opportunity to;**

- ◆ discuss scientific and technological developments in the field of Hydraulics and Pneumatics and their applications.
- ◆ provide a common platform for Hydraulics and Pneumatics engineers and technicians, academicians, researchers, developers, users, students, sector and trade associations.
- ◆ determine the required actions on education, research and legal regulations and share the current developments with the engineers and technical people working on the hydraulics and pneumatics.

It is desired that the papers presented in the Congress is a technical reference for application engineers and technical people.

Hydraulics and Pneumatics Congress with its scientific program, exhibition and social activities will be a common information and sharing platform for the Hydraulics and Pneumatics sector.

Engineers, academicians, technicians, companies and sector associations who are working in the hydraulics and pneumatics field are invited to contribute and give support to this common platform.

## EXHIBITION

- ◆ Hydraulic and pneumatic systems and equipment
- ◆ Mobile hydraulic systems and equipment
- ◆ Hydraulic pumps
- ◆ Hydraulic and pneumatic valves
- ◆ Hydraulic and pneumatic cylinders and motors
- ◆ Air compressors
- ◆ Pressurized air preparation and equipment
- ◆ Hydraulic filtration systems
- ◆ Hydraulic oils and lubrication systems
- ◆ Fluid power seals
- ◆ Hydraulic and pneumatic systems in automation applications
- ◆ Controllers, sensors and other measuring elements
- ◆ Connection elements and equipment in hydraulic and pneumatic systems



**Deutsche Messe**

Hannover Fairs for the Fair to be held simultaneously with the Congress  
You can contact Turkey Fair Organization.

**Fair Organization:** Hannover Fairs Turkey Fuarçılık A.Ş.

**Project Authorities:** Sena Mengül – Gökay Güler

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## TOPICS OF INTEREST

### HYDRAULICS

- ◆ Industrial hydraulics
- ◆ Mobile hydraulics
- ◆ Marine hydraulics
- ◆ Hydraulic circuit design
- ◆ Hydraulic components and their applications
- ◆ Proportional and servo systems
- ◆ Hydraulic fluids, seals and filtration
- ◆ Safety in design and machines
- ◆ Energy efficiency
- ◆ Hydrostatic circuits
- ◆ Load-sensing control systems
- ◆ Computational fluid dynamics (CFD)
- ◆ Micro and nano flows
- ◆ Maintenance and troubleshooting
- ◆ Sector specific applications

### PNEUMATICS

- ◆ Pneumatic circuit design
- ◆ Pneumatic components and their applications
- ◆ Pressurized air preparation and conditioning equipment
- ◆ Pneumatic systems in mobile applications
- ◆ Safety in design and machines
- ◆ Energy efficiency
- ◆ Pneumatic control systems
- ◆ Vacuum technologies
- ◆ Maintenance and troubleshooting
- ◆ Sector specific applications

### CONTROL SYSTEMS/MECHATRONICS/AUTOMATION

- ◆ Proportional and servo control
- ◆ Simulations of hydraulic and pneumatic systems
- ◆ Controllers, sensors and other measuring elements
- ◆ Robotics implementations at hydraulic and pneumatic
- ◆ Mechatronic applications in hydraulic and pneumatic systems
- ◆ Hydraulic and pneumatic test systems
- ◆ Digital technologies

## DEADLINES

2 September 2022	Submission of full papers
3 October 2022	Notification of acceptance of papers

This congress is organized by Chamber of Mechanical Engineers  
İzmir and İstanbul branches.

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