Politecnico di Torino

Dipartimento Energia "G. Ferraris"



TURIN • Italy

# 2027 LDIA

*June 20–23, 2027*

## The 16th International Symposium on Linear Drives for Industry Applications (LDIA)

General Chair: Mauro Repetto

Publication Chair: Silvio Vaschetto

**Call for papers**




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## Call for papers

### Important Dates

***Digest submission deadline:* January 24, 2027**

***Notification of acceptance:* February 28, 2027**

***Full paper submission deadline:* May 2, 2027**

## Conference topics

**Topic 1:**
**Electromagnetic Linear Motors and Actuators**

1.a. Linear motors
1.b. Linear actuators
1.c. Tubular motors
1.d. Nano and micro actuators
1.e. Multi-dimensional linear and planar drives

**Topic 2:**
**Non-electromagnetic Linear Motors and Actuators**

2.a. Linear motors
2.b. Linear actuators
2.c. Nano and micro actuators
2.d. Multi-dimensional linear and planar drives
2.e. Bio-actuators
2.f. Piezo electric actuators

**Topic 3:**
**Power Electronics and Control Methods for Linear Drives**

3.a. Linear drive and motor control
3.b. Power electronic supply of linear drives
3.c. Control theory and its application

**Topic 4:**
**Levitation Technologies**

4.a. Magnetic levitation for linear drives
4.b. Magnetic suspensions for motors
4.c. Electrodynamic levitation
4.d. Control strategies
4.e. Novel levitation control schemes

**Topic 5:**
**Subsystems for Linear Drives**

5.a. Bearings and guidings
5.b. Power sources and power conversion
5.c. Sensors and measurement systems

**Topic 6:**
**Applications of Linear Drives and Levitation Technologies**

6.a. Transportation
6.b. Factory automation and machine tools
6.c. Office automation
6.d. Robotics
6.e. Home and medical applications

**Topic 7:**
**Methods for Prediction and Analysis**

7.a. Numerical analysis of magnetic and electric fields
7.b. Analysis of coupled systems
7.c. Prediction of force, vibration and acoustic noise emission
7.d. Prediction of bearing voltages and bearing currents
7.e. Visualization
7.f. Dynamics
7.g. EMS

**Topic 8:**
**Materials**

8.a. Permanent magnets
8.b. Superconductors
8.c. Piezo devices
8.d. Magnetic materials
8.e. Special design of force elements

**Topic 9:**
**Other Related Topics and New Technologies**

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