



## Topics

### ※ Trends and new developments of linear drives (survey)

#### ※ Electromagnetic linear motors

Linear motors  
Tubular motors  
Multi-dimensional linear and planar drives

#### ※ Non-electromagnetic linear motors

Linear motors  
Ultrasonic motors  
Hysteresis motors  
Multi-dimensional linear and planar drives

#### ※ Direct drive motors and actuators

Direct drive linear motors  
Direct drive rotary motors  
High speed motors  
Low speed motors  
Linear actuators  
Rotary actuators  
Nano-, micro-actuators  
Piezo electric actuators  
Bio-actuators

#### ※ Control methods for linear drives

Linear drive and motor control  
Control theory  
Applications of new control theory  
Modeling and identification

#### ※ Levitation technologies

Magnetic levitation for linear drives  
Magnetic suspensions for motors  
Electrodynamic levitation  
Control strategies  
Novel levitation control schemes

#### ※ Subsystems for linear drives

Bearings, gears  
Power sources and power conversion  
Sensors and measurement systems

### ※ Applications of linear drives and levitation technologies

Transportation  
Factory automation and machine tools  
Office automation  
Robotics  
Home and medical applications

### ※ Analysis of electromagnetic field and force

Numerical analysis  
Analysis of coupled systems  
Visualization  
Dynamics  
EMC

### ※ Materials

Permanent magnets  
Superconductors  
Piezo devices  
Magnetic materials  
Special design of force elements

### ※ Other related topics and new technologies

## Information for authors

<del>December 15, 2012</del>	Receipt of abstracts
<b>January 15, 2013</b>	Receipt of abstracts
January 30, 2013	Notification of acceptance
April 15, 2013	Receipt of full papers

Authors are invited to submit a single-page A4 abstract before ~~December 15, 2012~~ **January 15, 2013** through the conference website. The presented papers will be published in the conference proceedings and indexed by EI-compindex, and selected excellent papers will be recommended to EI or SCI-indexed journals.

The official language of the symposium is English.





## LDIA 2013

The Ninth International Symposium on Linear Drives for Industry Applications (LDIA) will be held on July 7-10, 2013 in Hangzhou, China. The aims of the symposium are to bring together researchers from both academia and industry, and to share research findings and discuss future developments in linear drive technologies. Started in Tokyo in 1995, LDIA is now established as a regular biennial event.

## Program

- July 7: Welcome reception
- July 8: Technical sessions
- July 9: Technical sessions and banquet
- July 10: Technical tour

## Venue

The symposium is organized by Zhejiang University, a leading comprehensive university in China, and will be held in Hangzhou.

Hangzhou is a famous tourist city in China. It was one of the national capital cities, and is now the capital city of Zhejiang Province with a population of 6.4 million. As one of the most renowned and prosperous cities in China for much of the last 1,000 years, Hangzhou is also well known for its beautiful natural scenery, with the West Lake as the most noteworthy location. It was listed as a World Natural and Cultural Heritage in June, 2010.

Hangzhou is located 180km southwest of Shanghai, and can be reached from Shanghai by high speed train within one hour or directly via Hangzhou International Airport.

## International steering committee

Chair: H. Ohsaki      University of Tokyo  
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## Organized by

Zhejiang University (ZJU)

## Secretariat

General secretary: Youtong Fang  
College of Electrical Engineering  
Zhejiang University  
Zheda Road 38, Hangzhou, China  
tel: +86 571 87968447  
fax: +86 571 87968447  
e-mail: ldia2013@zju.edu.cn  
<http://www.ldia2013.com>

