

**LDIA 2017**  
**Osaka**

The Second Announcement and Call for Papers  
The 11th International Symposium on  
**Linear Drives for  
Industry Applications**



Osaka, Japan, September 6-8, 2017  
Osaka Institute of Technology Umeda Campus

URL: <http://www.ldia.jp/> E-mail: [ldia2017@cemlab.ee.oit.ac.jp](mailto:ldia2017@cemlab.ee.oit.ac.jp)

**OBJECTIVES**

The 11th International Symposium on Linear Drives for Industry Applications (LDIA 2017) will provide a forum for discussing present research and development activities and future prospects related to the linear drives for industry applications. The goal of the symposium is to bring together researchers from both academia and industry, to share research findings, and to discuss future developments in linear drive technology.

**VENUE**

The Symposium will be held at Osaka Institute of Technology Umeda Campus, Osaka, Japan. Umeda Campus is located at the center of Osaka City. It is very close to a main station (JR Osaka Station). Osaka city is the third largest city in Japan and is well known as a commercial city with tasty food and drink. It has easy accesses to famous historical cities in Kyoto and Nara.



**IMPORTANT DATES & PREMININARY PROGRAM**

~~December 31, 2016~~

January 31, 2017	Submission of abstracts
April 15, 2017	Notification of acceptance
June 30, 2017	Submission of full papers
September 6, 2017	Registration, Welcome Party
September 7, 2017	Opening Ceremony, Plenary Lectures, Technical Sessions, Banquet
September 8, 2017	Technical Sessions, Closing Remarks
September 9, 2017	Technical Tour

**TOPICS**

- 00. Trend and new developments of linear drives
- 10. Electromagnetic linear motors and actuators
  - 11. Linear motors
  - 12. Linear actuators
  - 13. Tubular motors
  - 14. Nano-, micro-actuators
  - 15. Multi-dimensional linear and planar drives
- 20. Non-electromagnetic linear motors and actuators
  - 21. Linear Motors
  - 22. Linear Actuators
  - 23. Nano-, micro-actuators
  - 24. Multi-dimensional linear and planar drives
  - 25. Bio-actuators
  - 26. Piezo electric actuators
- 30. Control methods for linear drives
  - 31. Linear drive and motor control
  - 32. Control theory
  - 33. Applications of new control theory
  - 34. Modeling and identification
- 40. Levitation technology
  - 41. Magnetic levitation for linear drives
  - 42. Magnetic suspensions for motors
  - 43. Electrodynamic levitation
  - 44. Control strategies
  - 45. Novel levitation control schemes
- 50. Subsystems of linear drives
  - 51. Bearings
  - 52. Power sources and power conversion
  - 53. Sensors and measurement systems
- 60. Applications of linear drives and levitation technology
  - 61. Transportation
  - 62. Factory automation and machine tools
  - 63. Office automation
  - 64. Robotics
  - 65. Home and medical applications
- 70. Analysis of electromagnetic fields and force fields
  - 71. Numerical analysis
  - 72. Analysis of coupled systems
  - 73. Visualization
  - 74. Dynamics
  - 75. EMC
- 80. Materials
  - 81. Permanent magnets
  - 82. Superconductors
  - 83. Piezo devices
  - 84. Magnetic materials
  - 85. Special design of force elements
- 90. Other related topics and new technologies

## CONTRIBUTIONS

Prospective authors should submit a single page abstract, in English, on one side of A4 or letter-size paper to the LDIA2017 secretariat in Word or PDF electronic file, by December 31, 2016. This abstract should be headed by the title of the paper, names and affiliations of authors, mailing address, phone and facsimile numbers, e-mail address, and the topic number(s), followed by the summary of the paper's contents, clearly indicating the aim and the results of the work. Please refer to latest information in the LDIA2017 Home Page.

## LANGUAGE

The official language of the Symposium is English.

## PROCEEDINGS

The full paper submitted by accepted author(s) of the digests will be included in the conference records. One of the authors who submitted the extended manuscripts is required to be registered and to be presented in the LDIA 2017. Conference papers presented at LDIA 2017 are submitted for possible inclusion in **the IEEE Xplore Digital Library and the IEEJ Electronic Library**. They can be submitted to the IEEJ Journal of Industry Applications (a special issue is now planned) or the IEEJ Transaction on Industry Applications. The recommended paper by LDIA 2017 program committee can be submitted to the IEEE Transactions on Industry Application.

## TECHNICAL TOUR

A technical tour is under planning. Latest information will be provided at the LDIA 2017 Home Page.

## SPONSORSHIP

Sponsored by Industry Applications Society, The Institute of Electrical Engineers of Japan (IEEJ IAS)

## LDIA2017 SECRETARIAT

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## ON-LINE INFORMATION

LDIA2017 Home Page on WWW at URL: <http://www.ldia.jp/>

## ORGANIZATION

**Conference Chair:** Toshimitsu Morizane (*Osaka Institute of Technology, Japan*)

**Technical Program Committee Chair:** Keisuke Fujisaki (*Toyota Technological Institute, Japan*)

**Organizing Committee Chair:** Tsutomu Mizuno (*Shinshu University, Japan*)

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