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Tokyo City University,
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Program committee

Chair: E. Lomonova
Eindhoven University of Technology,
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Organizing committee

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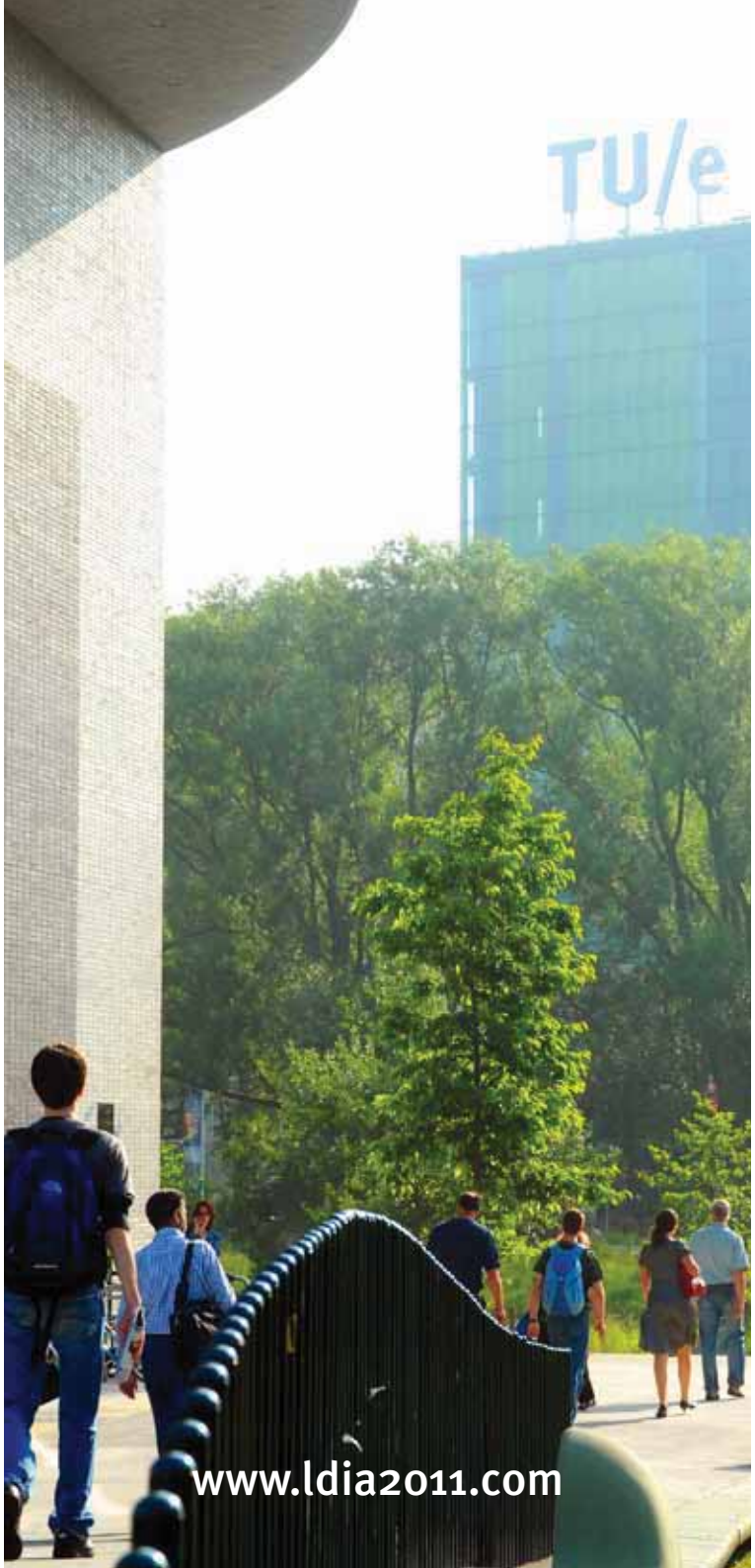

LDIA 2011

The Eighth International Symposium on Linear Drives for Industry Applications

Eindhoven, the Netherlands - July 3-6, 2011

LDIA 2011

The Eight International Symposium on Linear Drives for Industry Applications (LDIA) will be held from July, 3-6 2011 in Eindhoven, the Netherlands. The goal of the symposium is to bring together researchers from both academia and industry, and to share research findings and discuss future developments in linear drive technology.

Program

July 3: Welcome reception
July 4: Technical sessions and banquet
July 5: Technical sessions
July 6: Technical tour

Venue

The symposium will be held in the conference center of the Eindhoven University of Technology (TU/e) in Eindhoven, the Netherlands. The Eindhoven University of Technology is a leading international university specializing in engineering science and technology.

Eindhoven is the largest city in the southern Netherlands. It received its city rights in 1232. Nowadays, the city of Eindhoven is called the brainport of the Netherlands as the region counts for more than 40% of all research and development (R&D) investments in the Netherlands. The region holds third place in the European Innovation Scoreboard.

There are direct train services between Amsterdam, the capital of the Netherlands, and Eindhoven every 15 minutes (transit time 1h 20min).

Topics

Trends and new developments of linear drives (survey)

Electromagnetic linear motors and actuators

- Linear motors
- Linear actuators
- Tubular motors
- Nano-, micro-actuators
- Multi-dimensional linear and planar drives

Non-electromagnetic linear motors and actuators

- Linear motors
- Linear actuators
- Nano-, micro-actuators
- Multi-dimensional linear and planar drives
- Bio-actuators
- Piezo electric 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
- 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 fields and force fields

- 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

November 1, 2010	Receipt of abstracts
February 1, 2011	Notification of acceptance
April 1, 2011	Receipt of full papers

Authors are invited to submit a single-page A4 abstract before November 1, 2010 through the conference website. The accepted papers will be published in the conference proceedings. After the conference, authors of selected papers will be invited to resubmit their work to the IEEJ Transactions of Industry Applications or the IFAC Mechatronics Journal.

The official language of the symposium is English.