

SPEAKERS:



#### RAFAL JASTRZENSKI

Docent, levitation systems rafal.iastrzebski@lut.fi +358 408337618

Summer school June 15 to July 8

TO APPLICATIONS:

**CONTROL OF MAGNETIC** 

**LEVITATION SYSTEMS** 



#### **LEONID CHECHURIN**

Professor, control systems leonid.chechurin@lut.fi +358 504419193

#### INVITED SPEAKERS:



**WOLFGANG GRUBER** 

Professor, IEEE Senior, Johannes Kepler University, Linz, Austria



**AKIRA CHIBA** 

Professor, IEEE Fellow, Tokyo Institute of Technology, Japan

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# WHAT IS CONTROL SUMMER SCHOOL AT LUT\*?

# WE OFFER



3+3 ECTS intensives



blended highly interactive project/problem-based practice oriented experience learning experience



2 weeks in inspiring environment of modern university and Finnish summer



# WE ARE INTERESTED IN:

## **CONTENTS:**

#### WEEK 1

Classical control basics: modeling, analysis, and synthesis of linear control systems. Robust modelbased control examples and applications.

#### WEEK 2

Physics of electromagnetic levitation, mechanics of rotor, control principles and practical implementation of active magnetic bearing systems, bearingless motors and levitated linear drives.

Student project on control of AMB with real laboratory prototype

#### **STUDENTS**

Basic and advanced active magnetic bearings technology and bearingless motors

#### **PARTNERS**

International educational and research projects in system control and magnetic levitation

#### **COMPANIES**

Collaborators, outsource challenges or train/retrain employees

## HOST/CO-HOST

for control summer schools to come