

# ISMB17

# 17<sup>th</sup> International Symposium on Magnetic Bearings

Rio de Janeiro, August 18-21, 2020

www.ismb17.org



The International Symposium on Magnetic Bearings will be held, for the first time since its inaugural edition in 1988, in South America. Rio de Janeiro, elected World<sup>t</sup> Heritage by UNESCO, hosted the RIO+20 Summit Meeting in 2012, the World Youth Day with the Pope in 2013, the Football World Cup in 2014, the 30<sup>h</sup> Anniversary of Rock in Rio in 2015 and the Olympic Games in 2016. Besides that, every year, Carnival in Rio is celebrated with international glamour. The inhabitants, dubbed 'cariocas', are known by their hospitality and will welcome you in 2020.

Parallel to the usual main topics of ISMB conferences, a sightseeing program for accompanying persons will be organized. The registration to this social program will include the gala dinner and welcome reception, as an invitation to make ISMB not simply a workshop of experts but also a meeting of families and friends.

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COPPE - Federal University of Rio de Janeiro www.coppe.ufrj.br

#### **LOCAL SECRETARIAT**

Creacteve Eventos (ISMB17@creacteve.com.br)

# **DEADLINES**

Submission of abstracts February 29<sup>th</sup>, 2020

Notification of acceptance April 25th, 2020

June 20<sup>th</sup>, 2020 Submission of full papers

#### **MAIN TOPICS**

- Active magnetic bearings (AMB)
- Passive magnetic bearings (PMB)
- Electrodynamic bearings (EDB)
- Superconducting magnetic bearings (SMB)
- Hybrid bearing systems
- Self-bearings (bearingless) motors
- Smart bearings
- Sensors, actuators, power electronics for magnetic
- Self-sensing (sensorless) techniques
- Modeling, simulation, design and identification
- Advanced control
- Rotor dynamics
- Safety and reliability aspects
- Fault detection, diagnosis and tolerance
- Back up / Touch down bearings
- Components and materials
- Industrial, medical and aerospace applications
- Blood pumps, vacuum pumps and canned pumps
- Flvwheels
- Low power consumption magnetic bearings
- Ultra high speed bearings
- Micro bearings
- Electromagnetic suspensions (EMS)
- Electrodynamic suspensions (EDS)
- Diamagnetic levitation
- Electrostatic levitation
- MagLev trains
- Other related new fields

# REFERENCE HOTEL

Novotel Porto Atlantico www.accorhotels.com





