

# IEEE Advances in Magnetism 2020



March 8-11, 2020 - Moena (Trento), Italy

IEEE AIM 2020 will be the third edition of the conference Advances in Magnetism, organized by IEEE Italy Section and its Magnetism Chapter. Previous AIM conferences took place in Bormio (2016) and La Thuile (2018). It will represent a forum for presentation and discussion of the most recent advancements in all the fields of Magnetism: theory, numerical modeling, experiments and applications. The event is open to experts and scientists with different backgrounds (engineers, physicists, mathematicians, material scientists, chemists, biologists, etc.) to present, discuss, exchange ideas, methods and results.

## Technical sessions:

- **Biomagnetism and biomedical applications**  
(chairs: Oriano Bottauscio, Daniel Ortega, Paolo Ravazzani)
- **Magnetic recording, magnetic memories and sensors**  
(chairs: Francesca Casoli, Gaspare Varvaro)
- **Magnetic materials for energy applications**  
(chairs: Nora Dempsey, Simone Fabbri)
- **Additive manufacturing of magnetic materials**  
(chairs: Dieter Suess, Paola Tiberto)
- **Spin waves and magnonics**  
(chairs: Gianluca Gubbiotti, Helmut Schulteiss)
- **Spintronics, multiferroics and voltage control of magnetism**  
(chairs: Riccardo Bertacco, Georg Schmidt)
- **Spin-orbit torque**  
(chairs: Giovanni Finocchio, Jean-Marie George)
- **Skymions**  
(chairs: Nicolas Reyren, Riccardo Tomasello)
- **Mathematical modeling and micromagnetics**  
(chairs: Oksana Chubykalo-Fesenko, Massimiliano d'Aquino)
- **Macroscale modeling of magnetic and multifunctional materials and devices**  
(chairs: Simone Quondam Antonio, Ciro Visone)
- **FORC-based identification techniques**  
(chair: Alexandru Stancu)
- **Advanced measurement techniques**  
(chairs: Marco Coisson, Evangelos Hristoforou)
- **Electromagnetic non-destructive testing**  
(chairs: Aldo Canova, Antonello Tamburrino)
- **Magnetic levitation and bearings, electrical machines and other electromagnetic devices**  
(chairs: Antonino Musolino, Luca Sani)
- **Artificial intelligence, optimization and inverse problems**  
(chairs: Gabriele Lozito, Riccardo Scorretti)

## Conference chairs:

**Franca Albertini**  
(IMEM-CNR Parma, Italy)

**Mario Carpentieri**  
(Politecnico di Bari, Italy)

## Conference organization:

**Francesca Casoli**  
**Simone Fabbri**  
(IMEM-CNR Parma, Italy)

**Vito Puliafito**  
**Giulio Siracusano**  
(Università di Messina, Italy)

**Luis Sanchez-Tejerina**  
(Politecnico di Bari, Italy)

## Important dates:

**Abstract submission opens**  
July 15, 2019

**Abstract submission closes**  
September 20, 2019

**Abstract acceptance notice**  
October 20, 2019

**Registration opens**  
November 1, 2019

**Early bird registration closes**  
January 15, 2020



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