

19th Workshop on Information Optics (WIO 2025)

June 30, 2025 to July 04, 2025
ICFO -The Institute of Photonic Sciences, Castelldefels, Barcelona, Spain

Outline:

The **19th Workshop on Information Optics (WIO 2025)** will be held during **30 June-4 July 2025 at ICFO** - The Institute of Photonic Sciences, Barcelona, Spain.

The Workshop is a well-established and long-running forum for scientists in the field of information optics and photonics for over 30 years, with the first meeting held as Euro-American Workshop on Optical Pattern Recognition in La Rochelle in 1994. Subsequent workshops were held in different locations in Europe, North America, and Asia including Colmar (1999), Valencia (2001), Toledo (2006), Reykjavik (2007), Annecy (2008), Paris (2009), Helsinki (2010), Benicasim (2011), Quebec (2012), Tenerife (2013), Neuchatel (2014), Kyoto (2015), Barcelona (2016), Interlaken (2017), Quebec City (2018), and Stockholm (2019).

After a period of disruption due to Covid-19, we celebrate the workshop again in Barcelona in 2025.

In continuation of the theme of the workshop, WIO 2025 will address the latest advances in information optics, information photonics, imaging sciences and engineering, display technologies and 3D displays, 3D image sensing, image-based information security, image recognition, biophotonics, novel image sensors, quantum information science and technology, and more. It will be a forum for close interaction, collaboration, and networking among prominent scientists and educational outreach to students in a warm and friendly atmosphere. The workshop will be a single-session event consisting of oral presentations by prominent scientists from around the world, who will deliver invited talks. Contributed submissions will be accepted as poster presentations on topics that include, but are not strictly limited to, those listed above. All presentations including invited and poster contributions are expected to submit a 2-page summary.

Scientific topics:

Fundamental advances in information optics and photonics, including algorithms, devices, and systems
AI and deep learning for information optics
Physics informed neural networks and deep learning
Imaging through scattering media
Multidimensional image sensing, processing
Digital holography
Integral imaging
Biophotonics and biomedical imaging
Inverse problems in optics
Optical microscopy
Optics and photonics for information security and optical security systems
Polarimetric and multi spectral imaging
Materials and devices for information optics
Nano-technologies for imaging systems
Quantum optics for imaging
Integrated sensing and imaging, compressive sensing
Diffractive optics
Spatial light modulators and applications in information optics
Nanophotonics, metasurfaces, plasmonics
Augmented reality devices

Biomedicine, microscopy
Computational imaging
New radiation sources for information optics

Invited speakers:

Abhijit Mahalanobis, University of Arizona, USA

Adrian Stern, Ben-Gurion University of the Negev, Israel
Adolfo Esteban-Martin, University of Valencia, Spain
Ahmed Dorrah, Eindhoven University of Technology, Netherlands
Amr Helmy, University of Toronto, Canada
Andrew Forbes, University of Witwatersrand, South Africa
Andres Marquez, Universitat d'Alacant, Spain
Ariel Fernandez, Universidad de la Republica, Uruguay
Bahram Javidi, University of Connecticut, USA
Enrique Tajahuerce, Universidad Jaume I, Spain
Estela Martin Badosa, Universitat de Barcelona, Spain
Filiberto Pla, Universidad Jaume I, Spain
Giuseppe Leo, Universite Paris Cite, France
Goutam Samanta, Physical Research Laboratory, India
Hooman Mohseni, Northwestern University, USA
Juan Perez Torres, ICFO, Spain
Julia Alonso, Universidad de la Republica, Uruguay
Julie Fade, Fresnel Institute, France
Kavita Devi, Indian Institute of Technology, Dharwad, India
Lluis Martinez, Universidad Jaume I, Spain
Manuel Martinez, University of Valencia, Spain
Marti Duocastella, Universitat de Barcelona, Spain
Miguel Alonso, University of Rochester, USA
Osamu Matoba, Kobe University, Japan
Pablo Artal, University of Murcia, Spain
Pasquale Memmolo, CNR-ISASI, Italy
Pierre Marquet, Universite Laval, Quebec, Canada
Rainer Leitgeb, Medical University of Vienna, Austria
S Chaitanya Kumar, TIFR, India

Shaya Fainman, UC San Diego, USA
Simon Thibault, Universite Laval, Quebec, Canada
Tomoyoshi Shimobaba, Chiba University, Japan
Toralf Scharf, Focuslight, Switzerland
Yasuhiro Awatsuji, Kyoto Institute of Technology, Japan
Zeev Zalevsky, Bar-Ilan University, Israel

Conference Chairs:

Majid Ebrahim-Zadeh (ICFO)
Artur Carnicer (University of Barcelona)
Bahram Javidi (University of Connecticut)

The proceedings of WIO 2025 shall be published by the Springer Nature Applied Sciences.
Registration:

All invited participants must submit a 2-page paper.

Find here the Manuscript Style Guide for paper sumbmissions:
http://s.ic.fo/WIO2025_StyleGuide.

All student participants can make a poster submission, but it's not mandatory. For a poster submission, you must make a 1-2 paper submission.

Deadlines for paper submission:

Title submission: April 30, 2025
Full paper submission: **June 9, 2025** (extended!)

Registration fee:

Early bird registration deadline: April 30, 2025
Before April 30, 2025: ?600 // Students: ?300
After April 30, 2025: ?700 // Students: ?350

Deadline to finalize the payment: 20 June, 2025

Registration fee covers subsistence costs including lunches, coffee breaks, conference banquet, excursion (excludes hotel accommodation).
Only participants that paid the fee will be admited to the workshop.
Students and young researchers greatly encouraged to attend.

ICFOnians participation:

ICFOnians are not required to pay the attendance fee.

All ICFOnians can also **contribute with a poster**, but it's not mandatory. And you don't need to submit the paper to present the poster.
Please confirm that you will present a poster to the WIO2025 by sending an email to: WIO25@icfo.eu

ICFOnians Poster presentation Deadline: Monday 16 June, 2025

Venue:

ICFO - The Institute of Photonics Sciences, Castelldefels, Barcelona, Spain

ICFO is a young research institution that aims to advance the very limits of the science and technology of light, tackling important challenges faced by society at large in all areas of life, including health, energy, information, safety, security and caring for the environment. ICFO is a member of BIST, the Barcelona Institute of Science and Technology, and is situated in Castelldefels, a small town located by the sea just outside of Barcelona, Spain.

More information about ICFO can be found here.

ICFO does not tolerate any type of conduct or behavior considered harassment or bullying and has clearly defined policies against it.

Contact:

For more information, please contact:

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