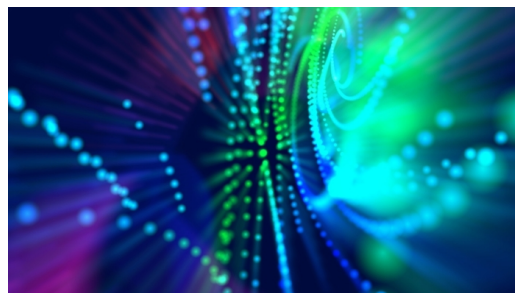




Artificial Intelligence Photonics 2023



11.Sep - 14.Sep 2023

Cod. Z21-23

Modalité:

En personne

Édition

2023

Type d'activité

Workshop

Date

11.Sep - 14.Sep 2023

Location

Carlos Santamaría Zentroa

Langues

Anglais

Reconnaissance officielle par l'État

40 heures

Comité d'organisation



Description

Photonics is gaining traction in the artificial intelligence area in close competition with mature technologies such as microelectronics and developing platforms such as memristive systems. On the one hand photons are viewed more and more as optimum information processing and transporting carriers for their versatility, speed and energy economy that make them apt for hardware implementations. On the other hand, AI in general and machine learning in particular have revealed as phenomenal tools capable to solve complex problems that can boost the development of photonics in aspects concerning, for instance, new materials, inverse design, and even law discovery.

The integration of both disciplines is a two-way street where the benefits are incalculable. Bringing together the international communities involved in artificial intelligence and photonics can only be in their mutual benefit and that of science in general.

ORGANIZING COMMITTEE:

Cefe López (DIPC, ICMM-CSIC)

Aitzol García-Etxarri (DIPC, Ikerbasque)

Javi Aizpurua (DIPC, CFM-CSIC)

David Gacía (ICMM-CSIC)

Objectifs

This workshop aims at bringing together the communities of artificial intelligence and photonics to foster interaction and joint development and establishing a cooperative community.

Collaborateurs spécifiques au cours



Directed by



Cefe López Fernández

ICMM-CSIC

Prof. López has a background in semiconductor physics and over thirty years' experience in materials science. His specialization in photonic materials covers preparation and characterization of nano- and micro-structured materials especially those based on self-assembly. Colloidal materials have been a dear subject of study with emphasis on the order/disorder balance and led to exceptional contributions in photonic crystals and photonic glasses. Introduction of non-linear properties such as optical gain greatly adds to these materials' potential giving rise to systems such as random lasers. Investigating random lasers, he found that certain ingenious realizations facilitate their coupling and their organization in networks.

Professeurs



Thomas Bocklitz



Daniel Brunner

FEMTO-ST, CNRS



Miguel Cornelles Soriano

University of the Balearic Islands



Sylvain GIGAN

Sorbonne Université



Antonio Hurtado Villavieja

University of Strathclyde



Laurent Larger

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Serge Massar

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Davide Pierangeli

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Paul Prucnal

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Dimitrios Psaltis

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Junsuk Rho



Damien Rontani



Giovanni Volpe

University of Gothenburg



Roberta Zambrini

IFISC (UIB-CSIC)

Tarifs inscription

REGISTRATION FEES

JUSQU'AU 05-09-2023

Registration Fee Waiver	0 EUR
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Student Registration Fee	250,00 EUR
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Regular Registration Fee	350,00 EUR
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Lieu

Gipuzkoa