



To Photonics21Secretariat
via eMail: secretariat@photonics21.org

or via Mail:
c/o VDI Technologiezentrum GmbH
ST / QS
Attn: Barbara Kehrer, Ursula Tober, Markus Wilkens
VDI Platz 1
40468 Düsseldorf
Germany

Dear Photonics21 Secretariat

We herewith submit the nomination of the following Photonics21 Board of Stakeholder candidate
CNRS / Eleni Diamanti.

**- Letter of Nomination -
Photonics21 Board of Stakeholders
Election 2019**

Photonics21 Board of Stakeholders - Letter of Nomination

1. Full legal name of the affiliation nominated as BoS Member (candidate's organisation):

Centre National de la Recherche Scientifique

2. Full contact details of the affiliation (street, postal code, country) nominated as BoS Member and invoice address.

Centre National de la Recherche Scientifique
LIP6, Sorbonne Université
4 place Jussieu
75252 Paris
France

3. Name of the suggested BoS Representative (the personal candidate)

Eleni Diamanti

4. Information about the BoS candidate and the BoS representative

a) Description of the activities and information about the expected contribution and value added the nominated BoS member (candidates organization) will bring to the BoS¹

The CNRS (Centre National de la Recherche Scientifique) is the biggest French research institute with more than twelve thousands researchers covering all fields of science. The CNRS is a public organization under the responsibility of the French Ministry of Higher Education and Research. Its missions, defined by governmental decree, are to evaluate and carry out research capable of advancing knowledge and bringing social, cultural, and economic benefits to society; to contribute to the application and promotion of research results; to develop scientific information, to support research training and to participate in the analysis of the national and international scientific climate and its potential for evolution in order to develop a national policy. As the largest fundamental research organization in Europe, CNRS is involved in all fields of knowledge. Interdisciplinary programs and actions offer a gateway into new domains of scientific investigation and enable CNRS to address the needs of society and industry. CNRS counts more than 1100 research units spread throughout France, with different types of laboratories in partnership – or not – with universities, other research organizations, or industry.

b) Description of the activities and information about expected contribution and value added the BoS Representative (candidate / person) will bring to the BoS.

Dr. Eleni Diamanti received a B.Sc. in Electrical and Computer Engineering from the National Technical University of Athens, Greece, in 2000 and a Ph.D. in Electrical Engineering from Stanford University in 2006, on the topic of the security and implementation of differential phase

¹ The candidate is aware and accepts that according to the Photonics21 Terms of Reference a service agreement and a service fee invoice is to be signed / paid with the Photonics21 association.

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shift quantum key distribution (QKD) protocols. She then worked as a Marie Curie post-doctoral scholar at the Institut d'Optique Graduate School, France, on a continuous-variable QKD experimental platform, before joining the CNRS LTCI laboratory at Telecom ParisTech, France, as a CNRS Researcher in 2009. She moved to the LIP6 laboratory of Sorbonne University – the top University in France – in 2016 and was promoted to CNRS Research Director in 2019.

Her research interests lie in theoretical and experimental quantum cryptography, including continuous-variable QKD and protocols beyond QKD, and in the generation of entangled-photon states for quantum information networks. Her work in continuous-variable QKD has led to the first commercial product employing this technology. She is engaged in multiple collaborative projects and contracts involving major industrial actors.

Dr. Diamanti has been a member of the Board of Stakeholders of Photonics21 since 2015. She is the Vice Director of the Paris Centre for Quantum Computing and Steering Committee member of the French national and Ile de France region groups in Quantum Technologies, where she is responsible for the quantum communication axes. She is also member of the European Commission expert group on the Quantum Communication Infrastructure and participates in the working group responsible for shaping up the Strategic Research Agenda in Quantum Technologies in Europe. Dr. Diamanti is a recipient of an ERC Starting Grant and member of the Scientific Management Team of two large European consortia on QKD, involving both academic and industrial partners. She serves as an Associate Editor for Science Advances, guest editor for special issues in quantum communications of the IEEE Photonics Society Journal of Selected Topics in Quantum Electronics, and she has served in numerous steering, program and organizing committees for international conferences (QCrypt, QCMC, OFC, CLEO US, CLEO/EQEC, etc.) She has co-authored over 65 papers in peer-reviewed journals and has given invited talks in more than 80 international conferences, workshops and seminars. She believes that photonic technologies are a key enabling technology for future information and communication technologies, including those exploiting quantum systems, and that their integration into the entire supply chain will be crucial for maintaining Europe's leadership in ICT.