

## Call for Contributions

**1. Inform the Chair:** with the Title of your Contribution

**2. Submission URL:**

<https://www.iariasubmit.org/conferences/submit/newcontribution.php?event=ICSNC+2021+Special>

Please select Track Preference as **G-PHOTON**

**3. Note:** *For 2021, all events will be held in a hybrid mode: on site or virtual choices (live, prerecorded videos, voiced presentation slides, and .pdf slides). We hope for better times allowing us to return to the traditional on site scientific events. However, we are ready to adapt any which way the conditions dictate.*

Special track

## **G-PHOTON: Geo-photonics, Intelligent Illumination of Planetary Matter**

### **Chairs**

Dr. Damian San Roman Alerigi, EXPEC Advanced Research Center, Saudi Aramco, Saudi Arabia  
[damian.sanromanalerigi@aramco.com](mailto:damian.sanromanalerigi@aramco.com)

Dr. Bastian Sauerer, Schlumberger, Houston, USA  
[bastian@slb.com](mailto:bastian@slb.com)

**ICSNC 2021: The Sixteenth International Conference on Systems and Networks Communications**

<https://www.iaria.org/conferences2021/ICSNC21.html>

October 03 - 07, 2021 - Barcelona, Spain

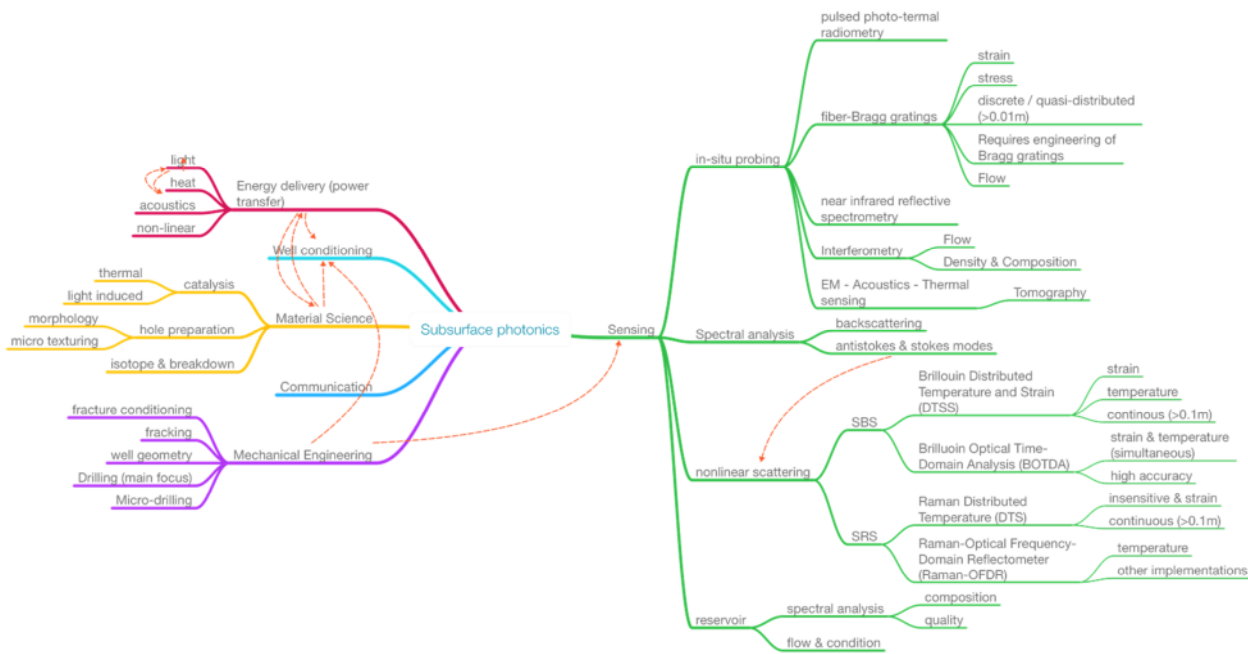
Photonics is the science of generation, detection, and manipulation of photons or electromagnetic radiation. It is at the core of numerous applications in sensing, digitalization, Internet of Things (IoT), big data, advanced Artificial Intelligence (AI), or robotics.

Geo-photonics studies, develops, and harnesses these technologies for subterranean, atmospheric, and planetary applications, e.g., it enables rapid characterization of rocks and fluids, imaging techniques that capture 3D/4D point clouds of subterranean environments, distributed and remote sensors that measure various physical properties from the Earth's crust to the limits of the atmosphere.

This interdisciplinary special track would convene researchers who develop and apply photonic technologies to evince new insights in geophysics, geology, petrophysics, and atmospheric sciences. It would be a venue to connect geoscientists and engineers developing new photonic technologies.

**The key topics include**, but not limited to (see the figure below):

- Photonics applications in petrophysical characterization;
- Geological/geochemical analyses;
- Remote and distributed sensing for geophysics;
- Atmospheric and subterranean monitoring;
- Earth's crust monitoring.



## Contribution Types

- Regular papers [in the proceedings, digital library]
- Short papers (work in progress) [in the proceedings, digital library]
- Posters: two pages [in the proceedings, digital library]
- Posters: slide only [slide-deck posted on [www.iaria.org](http://www.iaria.org)]
- Presentations: slide only [slide-deck posted on [www.iaria.org](http://www.iaria.org)]
- Demos: two pages [posted on [www.iaria.org](http://www.iaria.org)]

## Important Datelines

Inform the Chair or Coordinator: As soon as you decide to contribute

Submission: August 12, 2021

Notification: August 28, 2021

Registration: September 10, 2021

Camera ready: September 10, 2021

*Note: The submission deadline is somewhat flexible, providing arrangements are made ahead of time with the chair.*

## Paper Format

- See: <http://www.iaria.org/format.html>
- Before submission, please check and comply with the editorial rules: <http://www.iaria.org/editorialrules.html>

## Publications

- Extended versions of selected papers will be published in IARIA Journals: <http://www.iariajournals.org>
- Print proceedings will be available via Curran Associates, Inc.: <http://www.proceedings.com/9769.html>
- Articles will be archived in the free access ThinkMind Digital Library: <http://www.thinkmind.org>

## Paper Submission

<https://www.iariasubmit.org/conferences/submit/newcontribution.php?event=ICSNC+2021+Special>

Please select Track Preference as **G-PHOTON**

## Registration

- Each accepted paper needs at least one full registration, before the camera-ready manuscript can be included in the proceedings.

- Registration fees are available at <http://www.iaria.org/registration.html>

**Contact**

Chairs:

Damian San Roman Alerigi, [damian.sanromanalerigi@aramco.com](mailto:damian.sanromanalerigi@aramco.com)

Bastian Sauerer, [bastian@slb.com](mailto:bastian@slb.com)

Logistics: [steve@iaria.org](mailto:steve@iaria.org)