

SONDRA

France-Singapore Lab



Charting the next frontier of Electromagnetics, Radar and Signal Processing
Research between France and Singapore



SONDRA 5th workshop, AVIGNON, 14-16 June 2022

SONDRA is the joint laboratory established between CentraleSupélec, ONERA (The French Aerospace Lab), NUS (National University of Singapore) and DSO National Laboratories since 2004.

The 5th SONDRA Workshop will be held on 14-16 June 2022 with the aim of knowledge sharing, vision setting and networking between the SONDRA parties and international collaborators.

Call for Abstract - 5th SONDRA Workshop



In accordance with the aims of SONDRA to promote collaboration between scientific institutes, we organize this Workshop to provide an opportunity to renew scientific exchanges between academics, researchers, engineers and PhD students from European and Singaporean institutions. The Workshop will consist of talks (of 20 mins each including Q&A) and poster presentations. We invite interested speakers to submit an abstract of their talk or poster via the online portal:

- **Mail submission:** sondra-workshop@centralesupelec.fr **deadline 15 April 2022**
- Abstract: 1- or 2-pages max in English (including figures and references)
- Registration: <https://sondra2022.sciencesconf.org>

Topics

- RF Propagation and scattering in complex environments (forested, urban, maritime, ionosphere...)
- Statistical signal processing for radar detection and classification
- New techniques for SAR image analysis, time series analysis and change detection
- Radar techniques for human detection and classification in urban areas
- Machine Learning for radar detection and classification
- Compressive sensing applied to radar
- New concepts for radar: cognitive & MIMO radar, quantum technologies applied to radar

Venue Avignon, France. Grand hôtel (<https://www.avignon-grand-hotel.com/en/>)

Located on the banks on the Rhône River in the Provence-Alpes-Côte-d'Azur region, Avignon is known as the City of the Popes. Its historic centre, comprising the Papal Palace, the Episcopal Ensemble and the Avignon Bridge, is an outstanding example of medieval architecture. Resulting from an exceptional episode in history, which involved the seat of the Church leaving Rome for a century, it played a major role in the development and diffusion of a particular form of culture throughout a vast region of Europe, during a time of primordial importance in the establishment of sustainable relations between the papacy and the civil authorities.



Stroll through the streets of Avignon! The old streets, the inner courtyards of the private mansions, the restored facades will charm you. Avignon is also the capital of live entertainment with its theater festival (created in 1947 by Jean Vilar). It usually takes place between July 10 and August 5. Nearly 120,000 spectators flock to discover young companies or admire shows and actors with established reputations who come from France and around the world. The place can be very easily reached by airplane or by TGV.