



*The location: Haus Humboldtstein*

## DETAILS

### Organizer/Host

Fraunhofer FHR  
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### General Chair

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 **Fraunhofer**  
FHR



FRAUNHOFER INSTITUTE FOR HIGH FREQUENCY  
PHYSICS AND RADAR TECHNIQUES FHR

# 11<sup>th</sup> International SummerSchool on Radar / SAR

5 - 12 July 2019  
Bonn, Germany



Learning...

... and ENJOYING!





*Walk along the Rhine*



*The surroundings: Drachenfels and Siebengebirge*

## LEARNING...

One of Europe's most renowned radar institutes Fraunhofer FHR cordially invites you to join us for our upcoming International Summer School on Radar/SAR. Our program covers a wide range from radar fundamentals over state-of-the-art Radar/SAR systems to sophisticated signal processing techniques.

## ...and ENJOYING!

As a student at the International Summer School you will gain in-depth education on radar and synthetic aperture radar (SAR) techniques by distinguished international lecturers in a vibrant atmosphere. Our intellectually rewarding courses are accompanied by excursions as well as cultural and social events, introducing you to UNESCO's World Heritage, the Upper Middle Rhine Valley, and to the famous city of Cologne.

[www.RadarSummerSchool.Fraunhofer.de](http://www.RadarSummerSchool.Fraunhofer.de)

more info



**apply now!\***  
\*from 1. Dec. 2018 until 15. Mar. 2019

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The main focus of the International Summer School on Radar/SAR lies particularly in imparting the knowledge of the physical fundamentals and technologies of modern Radar/SAR systems and the necessary signal processing steps. Special emphasis is put on imaging radar. Considered systems and applications are regarded under dual use aspects.

The exacting challenging lectures and workshops feature crucial topics, such as:

- Introduction and fundamentals of radar technology
- Overview of different radar systems and their applications
- Antenna technology, phased array antennas, digital beamforming (DBF), frontend
- Radar imaging (synthetic aperture radar - SAR)
- Moving Target Indication (MTI)
- Interferometric/Tomographic SAR
- Bi- and multistatic radar / SAR systems
- Waveform design
- Special radar techniques: Terahertz imaging, ultra wideband (UWB) radar, ground penetrating radar (GPR), Compressive Sensing (CS)