

European Workshop on On-Board Data Processing (OBDP2019)



European Workshop on
On-Board Data Processing
cnrs  

Monday, 25 February 2019 - Wednesday, 27 February 2019

European Space Research and Technology Centre (ESTEC)

Programme

The **OBDP2019** workshop will include sessions with the following topics:

- Status of ESA, CNES and DLR On-Board Data Processing Activities
- Current and Future Data Processing Requirements, Trends and Needs
- Developments in On-Board Data Processing Applications and Architectures
- Reconfigurable data processing architectures
- Parallel processing frameworks
- Devices and Equipment for On-Board Data Processing
- DSP, FPGA, GPP, and GPU devices and benchmarks
- Digital processing units (DPUs)
- Processing systems based on COTS devices
- On-board Data Processing Algorithms and Implementations
- Hyperspectral image processing and synthetic aperture radar (SAR) processing
- Image acquisition techniques
- Data classification and selection
- Visual navigation
- Neural networks for on-board data processing

Additional topics may be added depending on contributions.

Future Needs, Requirements and Trends for On-Board Data Processing

On-Board Data Processing Systems and Architectures

Devices and IP for On-Board Data Processing

Software for On-Board Data Processing

Deep Learning in On-Board Systems

Data Reduction and Compression

On-Board Processing Algorithms

