European Workshop on On-Board Data Processing (OBDP2019)

European Workshop on
On-Board Data Processing
cnes   DLR   esa

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