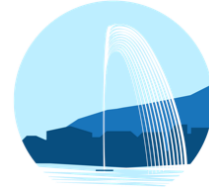


Octave Conference 2017



OctConf 2017

March 20-22
CERN, Geneva, Switzerland



Report of Contributions

Contribution ID: 1

Type: **not specified**

Welcome to CERN

Monday, March 20, 2017 9:30 AM (5 minutes)

Primary author: HEMMER, Frederic (CERN)

Presenter: HEMMER, Frederic (CERN)

Session Classification: Welcome to CERN

Contribution ID: 2

Type: **not specified**

Conference info

Monday, March 20, 2017 9:35 AM (5 minutes)

Primary authors: LATINA, Andrea (CERN); EVANS, John (CERN)

Presenters: LATINA, Andrea (CERN); EVANS, John (CERN)

Session Classification: Welcome to CERN

Contribution ID: 3

Type: **not specified**

Octave for N dimensions and microscope image processing

Monday, March 20, 2017 9:40 AM (30 minutes)

Primary author: DRAUG, Carnë

Presenter: DRAUG, Carnë

Session Classification: Applications

Contribution ID: 4

Type: **not specified**

Octave for Particle Accelerator Performance Optimization

Monday, March 20, 2017 10:10 AM (20 minutes)

Primary author: LATINA, Andrea (CERN)

Presenter: LATINA, Andrea (CERN)

Session Classification: Applications

Contribution ID: 5

Type: **not specified**

Publish your code with Octave

Monday, March 20, 2017 11:00 AM (30 minutes)

Primary author: OHLHUS, Kai Torben

Presenter: OHLHUS, Kai Torben

Session Classification: Applications

Contribution ID: 6

Type: **not specified**

Discussion

Monday, March 20, 2017 11:30 AM (1 hour)

Session Classification: Applications

Contribution ID: 7

Type: **not specified**

25 Years of Octave: Recent Developments and Future Directions

Monday, March 20, 2017 2:00 PM (1 hour)

GNU Octave (octave.org) development began in 1992. Now, 25 years later, the project is more active than ever before. This talk will touch on the history of the project, significant recent developments, and plans for the future.

GNU Octave is a free-software scientific programming language with a powerful mathematics-oriented syntax that is largely compatible with Matlab. It includes built-in plotting and visualization tools and can run in GUI mode, as a command-line application, or invoked as part of a shell script. Octave runs on a wide variety of systems, including GNU/Linux, macOS, BSD, and Windows.

Primary author: EATON, John W.

Presenter: EATON, John W.

Session Classification: CERN Open Session

Contribution ID: 8

Type: **not specified**

MOOC: Matlab and Octave for beginners

Primary author: DEPARIS, Simone (EPFL)

Presenter: DEPARIS, Simone (EPFL)

Session Classification: CERN Open Session

Contribution ID: 9

Type: **not specified**

GSoC project: Exponential Integrators

Tuesday, March 21, 2017 9:00 AM (30 minutes)

Primary author: SEGALA, Chiara

Presenter: SEGALA, Chiara

Session Classification: Projects

Contribution ID: **10**

Type: **not specified**

SOCIS project: Improve iterative methods for sparse linear systems

Tuesday, March 21, 2017 9:30 AM (30 minutes)

Primary author: DORIGO, Cristiano

Presenter: DORIGO, Cristiano

Session Classification: Projects

Contribution ID: **11**

Type: **not specified**

Discussion

Tuesday, March 21, 2017 10:00 AM (30 minutes)

Session Classification: Projects

Contribution ID: 12

Type: **not specified**

Support of free software in public institutions: the KiCad case

Tuesday, March 21, 2017 11:00 AM (1 hour)

KiCad [1] is a tool to help electronics designers develop Printed Circuit Boards (PCB).

CERN's BE-CO-HT section has been contributing to its development since 2011 [2]. These efforts are framed in the context of CERN's activities regarding Open Source Hardware (OSHW), and are meant to provide an environment where design files for electronics can be shared in an efficient way, without the hurdles imposed by the use of proprietary formats.

The talk will start by providing some context about OSHW and the importance of using Free Software tools for sharing design files. We will then move on to a short KiCad tutorial, and finish with some considerations about the role public institutions can play in developing and fostering the use of Free Software, and whether some of the KiCad experience can apply in other contexts.

[1] <http://kicad-pcb.org/>

[2] <http://www.ohwr.org/projects/cern-kicad/wiki>

Primary author: SERRANO, Javier (CERN)

Presenter: SERRANO, Javier (CERN)

Session Classification: Projects

Contribution ID: 13

Type: **not specified**

KiCad demo

Tuesday, March 21, 2017 11:25 AM (20 minutes)

Primary author: WLOSTOWSKI, Tomasz (CERN)

Presenter: WLOSTOWSKI, Tomasz (CERN)

Session Classification: Projects

Contribution ID: 14

Type: **not specified**

KiCad: questions and discussion

Tuesday, March 21, 2017 11:45 AM (15 minutes)

Session Classification: Projects

Contribution ID: 15

Type: **not specified**

GSoC project: ode15{i,s}

Tuesday, March 21, 2017 12:00 PM (20 minutes)

Primary author: FACCIO, Francesco

Presenter: FACCIO, Francesco

Session Classification: Projects

Contribution ID: 16

Type: **not specified**

The future of the Neural Network package

Tuesday, March 21, 2017 12:20 PM (15 minutes)

Primary author: FACCIO, Francesco

Presenter: FACCIO, Francesco

Session Classification: Projects

Contribution ID: 17

Type: **not specified**

Technical overview of user code parallelization

Tuesday, March 21, 2017 2:00 PM (30 minutes)

Primary author: TILL, Olaf

Presenter: TILL, Olaf

Session Classification: Projects

Contribution ID: **18**

Type: **not specified**

8/16-bit simulation with GNU Octave

Tuesday, March 21, 2017 2:30 PM (30 minutes)

Primary author: STAHEL, Andreas

Presenter: STAHEL, Andreas

Session Classification: Projects

Contribution ID: 19

Type: **not specified**

Status of Octave-Forge

Tuesday, March 21, 2017 3:00 PM (30 minutes)

Primary author: HEIMLICH, Oliver

Presenter: HEIMLICH, Oliver

Session Classification: Projects