OctConf 2015

From Octave

OctConf 2015 will take place in Darmstadt, Germany for three days from September 21 until September 23. Please email Sebastian (mailto:schoeps@gsc.tu-darmstadt.de) or Jacopo (mailto:corno@gsc.tu-darmstadt.de) if you think you could attend. Also write your name below in the Participants section if you think of attending with high probability.

Slides

Status of Octave (John W. Eaton)

description

 Octave and Python (https://mtmxr.com/octave-pytave-slides/) (Mike Miller)

description

Profiling (Daniel Kraft)

Talk on using the profiler in Octave. The shown demo code is also available.

Octave Forge (Carnë Draug)

An overview of the Octave Forge project, what it provides, and discussion of its future.

Creating Octave Packages (Carnë Draug)

A tutorial on writing your own Octave packages, from simple collections of m files to all the extra optional files.

Writing high performance m-files (Rik)

Tips for improving performance of user scripts.

The NURBS and GeoPDEs packages (Rafael Vazquez)

Octave software for research on Isogeometric Analysis.

Interval package (Oliver Heimlich)

Very basic overview of the Octave Forge package on real valued interval arithmetic. For further reading, please consult the package documentation [1] (http://octave.sourceforge.net/interval/package_doc/index.html). Also some general experiences with development at Octave Forge.

• odepkg: Present and Future (Jacopo Corno)

SOCIS results and moving ode?? to core

• OCS intro and tutorial (http://wiki.octave.org/Ocs_package) (Carlo de Falco)

Octave Circuit Simulator

GMSH and GetDP in Academia and Industry (Christophe Geuzaine)

description

GSoC 2015 Summary (Juan Pablo Carbajal)

We discussed about our future relation with the "Summer of Code" programs (Google, ESA, etc.). What percentage of students stays within the community? What is the quality of their contributions?

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OctaveRs (Richard Márquez)

Some thoughts on a personal online platform for GNU Octave

Fund Raising

The fund raising at OctConf yielded a \$700 donation for GNU Octave on Oct 2, 2015 (Transaction ID 7P725701GD802890U).

Location



Mathildenhöhe in Darmstadt

Darmstadt, Germany

Darmstadt is a medium sized German city (154.002 inhabitants, cf http://www.darmstadt.de (http://www.darmstadt.de/fileadmin/Bilder-Rubriken/Standort/Statistik_und_Stadtforschung/pdf/faltblaetter/ZahlenInKuerze2015internet.pdf)) located in the close neighborhood to Frankfurt, i.e., easy to reach due the airport FRA (http://www.fraport.com/en.html). It is one of the few cities in Germany that are allowed to call themselves "city of science". The reason is that Darmstadt has clearly dedicated itself to academia and research:, it has a technical university ("TU Darmstadt", founded in 1877) and two universities of applied sciences "h_da" and "Evangelische Hochschule" with 40,616 students in total. Furthermore there are several research institutes, e.g., the European Space Operations Centre (http://www.esa.int/About_Us/ESOC), EUMETSAT (http://www.eumetsat.int/website/home/index.html) and the GSI Helmholtz Centre for Heavy Ion Research (https://www.gsi.de/en/start/news.htm), which discovered with their

heavy-ion accelerator chemical elements like Darmstadtium (http://en.wikipedia.org/wiki/Darmstadtium). Many technology companies are also located here, e.g. big cooperations like Deutsche Telekom (http://www.telekom.de/), Merck (http://www.merck.de) but also SMIs like CST (https://www.cst.com) which is a spin-off of TU Darmstadt and the market leader for high-frequency electromagnetic field simulations.

In former times Darmstadt was the seat of government of the German State Hessen (https://english.hessen.de) and thus has still an active cultural life and in particular important architecture from the beginning of the 20th century. The dukes of Hesse (http://en.wikipedia.org/wiki/Ernest_Louis,_Grand_Duke_of_Hesse) were at that time interested in art, in particular the so-called Jugendstil (the German version of Art Nouveau (http://en.wikipedia.org/wiki/Art_Nouveau)) and funded the Darmstadt Artists' Colony (http://en.wikipedia.org/wiki/Darmstadt_Artists%27_Colony). It is still located at the Mathildenhöhe (http://www.mathildenhoehe.eu).

Venue

The upcoming Octconf 2015 will take place at the Graduate School of Excellence Computational Engineering (CE) at the Technische Universität (TU) Darmstadt

Graduate School CE Dolivostraße 15 (http://www.openstreetmap.org/#map=18/49.87756/8.64091) D-64293 Darmstadt

The institution has been recognized as a center for top-level research and scientific excellence by the highly competitive 'Excellence Initiative' of the German Federal and State Governments. The Graduate School enables PhD students to develop their scientific skills in a focused way, and to cooperate under optimal conditions in a highly stimulating interdisciplinary environment (computer science, engineering and mathematics). One lecture hall and two seminar rooms with wifi (eduroam (https://www.eduroam.org)) are reserved for the whole week.

Travelling

You can find travel directions here (http://www.graduate-school-ce.de/index.php?id=23). The recommended procedure is a flight to Frankfurt's International Airport (http://www.frankfurt-airport.de/content/frankfurt_airport/de.html) and then taking the bus called "Airliner"

(http://www.rmv.de/linkableblob/de/33548-

59802/data/AirLiner_Direktbus_Darmstadt_Frankfurt_Flughafen_PDF.pdf)" to Darmstadt main station. Frankfurt Hahn (https://www.hahn-airport.de/Default.aspx?menu=passengers_visitors&cc=en) is also an option

but is approximately 130 km away from Darmstadt and there is no direct connection. To get from Hahn to

Darmstadt the best way is to take the bus to Frankfurt Hbf (http://www.bohr.de/linienverkehr/buslinie-hahn-frankfurt), get off at Frankfurt's International Airport stop and take the "Airliner" from there. The conference hotel (see below) is directly at the train station and the venue in 15min walking distance.



We have prebooked rooms in

 15 single rooms in the InterCityHotel Darmstadt (http://en.intercityhotel.com/Darmstadt/InterCityHotel-Darmstadt) (booking via e-mail or phone is recommended; code "TU Darmstadt, Octconf 2015)

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·		
Email address is:	reservations@darmstadt.intercitvhotel.de	
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• 2 rooms in the youth hostel Darmstadt (http://www.djh-hessen.de/jugendherbergen/darmstadt/)

Dates

September 21-23, 2015. This is from Monday to Wednesday. Participants are encouraged to attend for all three days, but anyone is welcome for any duration of time. If necessary, invitation letters can be issued.

Excursions for the technology enthusiasts to ESOC, EUMETSAT and/or GSI are planned.

Suggestions for Sessions

Code sprints and informal discussion will happen every day. Please propose topics of interest for these sessions.

Schedule

Time	Monday (Octave Core Day)	Tuesday (Packages Day)	Wednesday (Open Source Day)
9:00- 10:00	Status of Octave (John W. Eaton, confirmed)	NURBS and GeoPDEs Package (Rafael Vazquez)	GMSH and GetDP in Academia and Industry (Christophe Geuzaine)
10:00- 10:15	Coffee	Coffee	Coffee
10:15- 10:50	Octave and Python (https://mtmxr.com/octave- pytave-slides/): Don't Call it Pytave! (Mike Miller, confirmed)	To Be Announced	GSoC 2015 Summary (Juan Pablo Carbajal, confirmed)
10:50- 11:25	Octave's profiler (Daniel Kraft, confirmed)	Interval Package (Oliver Heimlich, confirmed)	
11:25- 12:00	Writing high performance m- files (Rik, confirmed)	The future of odepkg (Jacopo Corno)	Discussion: Open source, funding, software projects as partners in scientific research projects
12:00- 12:30	Discussion	Discussion	
12:30- 14:00	Lunch	Lunch	Lunch
14:00- 14:35	Packaging for Octave (Carnë)	OCS (http://octave.sf.net/ocs) intro and tutorial (Carlo de Falco)	A WUI for GNU Octave (http://www.cursosing.net/octavers/gnuoctave/) (Richard Márquez)
14:35- 15:10 15:10- 15:45	Open Slot	Poster Session	Discussion: Octave in Teaching: examples, best practices (short presentations are welcome)
15:45- 16:00	Coffee	Coffee	Coffee
16:00-		Social program: excursion to EUMETSAT	(optional)

http://wiki.octave.org/OctConf_2015

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18:00	Code Sprint	(http://www.eumetsat.int/website/home/index.html) (confirmed, 30 people max)	Code Sprint
18:00- 19:00	Dinner	Dinner	Social program: excursion to GSI
19:00- 20:00	Social program: a walk to the Mathildenhöhe (http://www.mathildenhoehe.eu/)	Open slot	(https://www.gsi.de/en/start/news.htm) (confirmed, 20 people max)

Poster Session

Show us what you do with Octave and any interesting application in your field. Please email us (mailto:octconf2015@gsc.tu-darmstadt.de) if you are interested in contributing so that we can schedule the number of participants.

Confirmed Posters:

Title	Author
emgr - Empirical Gramian Framework (http://wwwmath.uni- muenster.de/u/himpe/himpe15_octconf.pdf)	Christian Himpe
Onelab package (https://thalia.gsc.ce.tu-darmstadt.de/krimm/octconf_poster/raw/master/poster.pdf)	Alexander Krimm
Teaching Octave at University (https://github.com/hpodhaisky/OctConf/raw/master/poster.pdf)	Helmut Podhaisky, Alf Gerisch, Markus Köbis
Level-set package	Daniel Kraft
LTFAT package (http://ltfat.github.io/notes/ltfatnote033.pdf)	Zdenek Prusa
not confirmed	Jyoti Prakash
not confirmed	Luka Kurnjek
FlexiBLAS - A Blas wrapper library with runtime exchangeable backends	Martin Köhler
ADiMat - Automatic Differentiation for Matlab and Octave	Johannes Willkomm
Open business model canvas of OctaveRs (a WUI for GNU Octave) (https://docs.google.com/drawings/d/1FCOX53M7e77C_e2O97cl_Vl_ExJVYBMCPnEtoaNxFV4/edit? usp=sharing)	, Richard Márquez

Participants

- Jacopo Corno (http://www.graduate-school-ce.de/index.php?id=619)
- Christophe Geuzaine (http://www.montefiore.ulg.ac.be/~geuzaine/)
- Sebastian Schöps (http://graduate-school-ce.de/schoeps)
- Kai T. Ohlhus
- Juan Pablo Carbajal
- Rafael Vázquez
- Mike Miller
- Daniel Risquez (http://www.eumetsat.int/website/home/index.html)
- Carnë Draug
- Daniel Kraft (http://www.domob.eu)
- Rik
- Oliver Heimlich
- Carlo de Falco (http://www1.mate.polimi.it/~carlo/)
- John W. Eaton
- Andreas Weber
- Alf Gerisch (http://www.mathematik.tu-darmstadt.de/~gerisch/)
- Helmut Podhaisky (http://sim.mathematik.uni-halle.de/helmut/)

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- Jyoti Prakash
- Christian Himpe (http://wwwmath.uni-muenster.de/u/himpe/)
- Markus Bergholz
- Luka Kurnjek
- Richard Márquez (http://www.cursosing.net/octavers/gnuoctave/)
- Edmund Ronald (http://deepneural.blogspot.fr/p/instructions-1_10.html)
- M J Harvey (https://www.acellera.com)
- Doug Stewart
- Lukas Reichlin
- Martin Köhler (http://www2.mpi-magdeburg.mpg.de/mpcsc/koehlerm/)
- Johannes Willkomm (http://www.johannes-willkomm.de)
- Reza Housseini
- Zdenek Prusa

The official registration period is now over. Participation to the conference is still possible without official registration, but we cannot guarantee hotel reservations, food or the possibility to join the social program.

Child Care

TU Darmstadt is a family friendly university. If you are planning to attend OctConf with your family/children please contact us. We will be happy to help you to organize child care.

Funding

There is limited funding to cover the travel expenses of selected participants. The available funds have currently been assigned.

The following institutions have provided funding so far:

- the Graduate School CE (http://www.graduate-school-ce.de/) has granted travel funds for invited speakers
- the Institute Computational Electromagnetics Laboratory TEMF (http://www.temf.de) offers further sponsoring, e.g. for travel grants
- the CST Computer Simulation Technology AG (https://www.cst.com) will financially support event (Catering, Coffee breaks etc)

Questionnaires results

- All participants are compilers of Octave themselves. The main reason for them to participate to the conference is their interest in the development of Octave Core. Besides that also meeting the other developers in real life seems to be a motivation to join.
- The desired timespan for the conference is for almost all the participants 3 days.
- The amount of talks was to all participants adequate.
- 43% of the participants would like to have more code sprints for 57% the amount of sprints were adequate.
- Everyone liked the excursions, however 4 out of 14 participants thinks that the amount was too high.
- The poster session was appreciated by all participants and there is a slight request to extend it.
- There is also a request to define specific goals before the conference. The most proposed tool to share those goal is the wiki.
- About the financing of the conference: 8 of 14 participants do not care where the money is coming from. For those who care, they want
 the contribution of the conference fees to the financing as low as possible. For the other contributions there is no clear line.
- 10 out of 14 participants loved t-shirts and half of them thinks that we should stuff like this.

Previous OctConf

OctConf 2014

Next OctConf

OctConf 2016

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