



PyHPC2015

5th Workshop on Python for High-Performance and Scientific Computing

In cooperation with SIGHPC

Held in conjunction with SC15: The International Conference on High Performance Computing, Networking, Storage and Analysis

<http://www.dlr.de/sc/pyhpc2015>

November 15, 2015, Austin, TX, USA



Program

- 9:00-9:10** **Introduction**
Andreas Schreiber, William Scullin, Bill Spatz, and Andy Terrel
- 9:10-10:00** **INVITED TALK: Boost Python performance with Intel®MKL & Intel® Vtune™ Amplifier XE**
Robert S. Cohn
- 10:00-10:30** **Break**
- 10:30-11:00** **PeachPy meets Opcodes: Direct Machine Code Generation from Python**
Marat Dukhan
- 11:00-11:30** **Python, Performance and Natural Language Processing**
Aleksandr Drozd, Anna Gladkova, and Satoshi Matsuoka
- 11:30-12:00** **Performance and Productivity of Parallel Python Programming – A study with a CFD Test Case**
Achim Basermann, Melven Roehrig-Zoellner, and Joachim Illmer.
- 12:00-12:30** **Solving Large Numerical Optimization Problems in HPC with Python**
Antonio Gómez-Iglesias
- 12:30-14:00** **Lunch Break**
- 14:00-15:00** **KEYNOTE: A Pythonic Future for Scientific Computing Education**
Katy Huff
- 15:00-15:30** **Break**
- 15:30-16:00** **PyTACC: HPC Python at the Texas Advanced Computing Center**
Richard Evans, Antonio Gómez-Iglesias, and William Cyrus Proctor
- 16:00-16:30** **Feature Frequency Profiles for Automatic Sample Identification using PySpark**
Gregory Zynda, Niall Gaffney, Mehmet Dalkilic, and Matthew Vaughn
- 16:30-17:00** **dispel4py: A Python Framework for Data-Intensive eScience**
Amrey Krause, Rosa Filgueira, and Malcolm Atkinson
- 17:00-17:30** **Lightning Talks**

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Contact

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