

1 Tuesday June 4, 2019 de RSE KONFERENZ 2019 Conference Programme

13:15 Welcome & Keynotes: RSEs together - building networks, groups, organisations and careers - Alys Brett (UK Research Software Engineer Association, UK Atomic Energy Authority) - Building a Future with AI - Sven Wildermann & Bradley Tipp (Microsoft)

16:00 Testing Research Software Challenges for Verifying and Validating Scientific Software in Computational Materials Science - T. Vogel / L. Grunske / S. Druskat - The Quest For Better Tests In Scientific Computing - R. Fritz - Decentralized software development facilitating CI/CD to produce high quality, open-source code in a European metrological joint research project - B. Ludwig

18:00 Software Quality Management The art of giving and receiving code reviews - A. Hill - Develop, License, Test, Curate - Mathematical Optimization In The Real World - M. Mittenberger / F. Schlöcker - GitHub pipelines for every need: testing, documentation, and writing a paper - D. Manik

Sustainable Long Living Software I Lebensverlängernde Maßnahmen für Fortran-Codes - M. Meinel - Entwicklung der Forschungssoftware RCE im ZLR - B. Boden / R. Mischke - Softwareentwicklung zwischen Forschungscode und Industriereleases - J. Kern

Community Building Building research software communities - J. Cohen - Building scientific communities - Lessons learned with AIRR - C. Busse - Building a healthy and vibrant volunteer driven community: The Bio-IT project - M. Gouws - Help me help you - T. Allard

Jupyter: Interactive visualizations in Python and C++ W. Vollprecht / J. Mabilite

Developing for the Cloud - Azure Notebook, DevOps, Cognitive Services, VM and DataBricks M. Kunde

Libraries (the brick and mortar type) for Research Software & Engineers A. Struck / R. Gey / K. Leinweber / R. Strögen / C. Pietsch

9:00 Jogging / morning run (Meet at Building A17)

11:30 Guided Tour Telegrafenberg (Meet at Haus H)

12:00 Packed Lunches

15:30 Coffee Break

17:30 Coffee Break

19:30 Conference Dinner

2 Wednesday June 5, 2019

9:00 Welcome & Keynotes: Sustainable Research Software – as Code, as Paper, as Book - Andreas Zeller (CISPA, Universität des Saarlandes) - Delivering on the promise of Research Computing - Brendan Bouffier (Amazon Web Services)

10:20 Conference Photo

11:00 Software Engineering Productivity Optimizing Developer Productivity in Endangered Language Documentation Apps - L. Gessler - ediarum - from bottom-up to generic programming - M. Fechner / S. Dumont - Debian Astro - a "Debian Pure Blend" for Astronomy and Astrophysics - O. Streicher

Reproducibility I Curious Containers: Framework zur Reproduzierbarkeit von digitalen Experimenten - C. Jansen / D. Krefling - Portable Container zum Entwickeln, Erstellen, Verteilen und Ausführen von komplexer wissenschaftlicher Software - L. Bilke - Integrierte Entwicklungs- und Publikationsumgebung für Forschungssoftware und Daten am Helmholtz-Zentrum Dresden-Rossendorf (HZDR) - T. Ernst

Research Data Management Evaluation of the semantic research data management system CaosDB in gladiology - A. Schlemmer - How to save a scientist's career with data classes - D. Klein - Linking biological data using data science and cross-disciplinary software development - F. Huber - Against Schematisation – Mapping the Choreographic Vector Space - A. Koch

Herausforderungen für die nachhaltige Entwicklung, Bereitstellung und Pflege von Forschungssoftware in Deutschland A. Loewe / M. Katerbow / G. Seemann / S. Druskat

FAIR Software A. Lamprecht / C. Martinez

13:30 Research Software Frameworks Automated Deadline-Based Scaling of Experiments in the Cloud with MICADO - J. DesLauriers - Parallel-in-Time integration with PFASST: from prototyping to applications - R. Speck - Software for autonomous astronomical observatories - T. Granzer - xtensor: A n-dimensional container for C++ - W. Vollprecht / J. Mabilite - Generation of a wrapper library for MPI - MeDiPack - M. Sagebaum

Reproducibility II Data mining made easy, reproducible and open-source - A. Bartholomäus - Reproducibility of Particle-In-Cell Simulations in Plasma Physics - S. Tietze - Common Workflow Language (CWL)-based software pipeline for de novo genome assembly from long- and short-read data - P. Korhonen

Institutional RSE Communities II Kollaborationsmodelle für Softwareentwicklung an der HU - M. Dreyer - Empfehlungen für bessere Forschungssoftware - T. Schlauch - Zwischen Digital und Humanities - O. Pohl / A. Notroff

GitLab selbst betreiben: Wie sind die Erfahrungen? Wie ermöglichen wir Kooperation mit Externen? F. Goth / C. Pietsch

15:30 Experience with Simulation Software Insight Earth System Models - J. Piwonski - PALM – a story of developing and maintaining a scientific model system - T. Gronemeier - How to build a modern particle based CFD framework for both - Industry and Science - M. Taesch / S. Przybilla - ESM-TOOLS: A Software Tool for Earth System Modelling Scientists - N. Wieters

Towards Open Research Software Von Closed zu Open Source - L. Baumstark - Forschungssoftware als digitale Ressource erhalten - E. Albers - Neukonzeption des DLR Software-Katalogs - T. Kolb

RSE4NFDI – Nachhaltigkeit von Forschungssoftware in der nationalen Forschungsdateninfrastruktur (NFDI) Deutschland M. Hammitzsch / F. Löffler

Anforderungen, Wünsche und Erfahrungen für den Aufbau des HIFIS Competence Clusters Software Services in der Helmholtz-Gemeinschaft U. Konrad

17:15 Poster Lightning Talks - B. Fritsch

18:15 Poster Session & Geo BoF

15:00 Coffee Break

12:30 Buffet Lunch

10:30 Coffee Break

8:30 Get-in Coffee

Registration

3 Thursday June 6, 2019

9:00 User Interfaces GUI-Architektur für interaktive Datenanalyse - J. Wuttke - NICOS - ein Steuerungsframework für Großforschungsgeräte - G. Brandl - Umsetzung effizienter plattformunabhängiger App-Entwicklung in einer bestehenden Forschungssoftware-Landschaft - R. Buchbach

Communication and Outreach The Research Software Engineering Landscape in Germany - S. Janosch / M. Hammitzsch - RSE 2.0 - M. Woodbridge - Research Software Network for the Digital Humanities // Forschungssoftware-Netzwerk für die digital arbeitende Geistes- und KulturwissenschaftlerInnen - T. Kälmb - Development of research software at DLR - role and status in practice - L. V. Kurnatowski

Entwicklung von Policies und Richtlinien für Forschungssoftware B. Fritsch / T. Schlauch / J. Fuhrmann / K. Scheliga

Organisation von lokalen und regionalen RSE Chapters | Organising RSE Chapters H. Seibold / D. Nüst

Organisations- und Projektmanagementmethoden in Forschungssoftwareentwicklungsprojekten

Cost Effective Research Leveraging AWS Spot R. Winzinger

11:00 Paneldiskussion "Nachhaltigkeit von Forschungssoftware in Deutschland" M. Katerbow (DFG) / A. Lamprecht (Uni Utrecht) / K. Leinweber (TIB) / M. Meinel (DLR) / A. Zeller (CISPA, Uni Saarland)

13:30 Closing Session

15:15 de-RSE e.V. Jahreshauptversammlung

12:30 Packed Lunches

11:00 Guided Tour Telegrafenberg (Invitation Only)

10:30 Coffee Break

8:30 Get-in Coffee

Drinks Reception

aws

Organizer



Gesellschaft für Informatik e.V. (GI), Fachbereich Softwaretechnik (SWT)

Co-organizer



de-RSE e.V. - Gesellschaft für Forschungssoftware

Local Organizers



Forschungsstelle Potsdam des Alfred-Wegener-Instituts (AWI)



GFZ German Research Centre for Geosciences



Potsdam-Institut für Klimafolgenforschung (PIK)

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