



14-18 March 2015  
Sendai, Japan

Environmental Supercomputing

# Environmental Supercomputing and Disaster Risk Reduction

CIMA Foundation, Italy

Leibniz Supercomputing Centre (LRZ), Germany







Video: SuperMUC rendered on SuperMUC by LRZ

<http://youtu.be/OIAS6iiqWrQ>

Dr. Christian Pelties, Department of Earth and Environmental Sciences (LMU)  
Prof. Michael Bader, Department of Informatics (TUM)

1,42 Petaflop/s on 147.456 Cores of SuperMUC  
(44,5 % of Peak Performance)

[http://www.uni-muenchen.de/informationen\\_fuer/presse/presseinformationen/2014/pelties\\_seisol.html](http://www.uni-muenchen.de/informationen_fuer/presse/presseinformationen/2014/pelties_seisol.html)

Picture: Alex Breuer (TUM) / Christian Pelties (LMU)



- Europe has installed and is operating a number of **world-leading e-Infrastructures**
  - Network: GEANT
  - Grids/Clouds: EGI
  - Supercomputing: PRACE
- **DRIHM Project Series:** Collaboration between Hydrometeorology and Supercomputing
- Generalization of Results
  - ➔ **Environmental Computing** – [www.envcomp.eu](http://www.envcomp.eu)

- **Connect**
  - Establish initial connections between interested parties
- **Interact**
  - Public report from WCDRR Side Event on Environmental Computing
  - Workshop at eScience 2015 Conference in September, Munich, Germany
- **Collaborate**
  - Projects to get actual code running on Supercomputers
  - Share the vision, understand the potential
  - Grow avcommunity, share common tools



<http://escience2015.mnm-team.org/>



**11th IEEE International Conference on eScience – Munich, Germany Aug 31 – Sept 04, 2015**

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**11<sup>th</sup>**  
**eScience** 2015  
IEEE INTERNATIONAL CONFERENCE

**IMPORTANT DATES**

- 8th March 2015: Workshop proposal and full paper abstract deadline
- 15th March 2015: Full and experience paper deadline
- 18th March 2015: Workshop notification of acceptance
- 15th May 2015: Notification of acceptance: full and experience papers
- 20th May 2015: Poster submission deadline
- 7th June 2015: Camera ready paper (full & experience) deadline
- 21st June 2015: Camera ready workshop paper deadline
- 30th June 2015: End of early registration rate
- 15th August 2015: End of standard registration rate (on-site rate available after this)
- 31st August - 4th September 2015: Conference in Munich, Germany



## **9.00 – 10.00 Welcome and Opening**

- Sahar Safaie (UNISDR)
- Denis Peter (EC)
- Kenji Satake (ASTARTE)

## **10.00 – 10.50 Technology**

- Matti Heikkurinen (LMU)
- Roberto Rudari (CIMA)
- Lydia Cumiskey (RISC-KIT)

## **10.50 – 11.40 Applications and Impact**

- Kuniyushi Takeuchi (PEARL)
- Amelie Vagner (MIAVITA)
- Dieter Kranzlmüller (LRZ)

## **11.40 – 12.00 Discussion and Wrap-Up**