

NIC Symposium 2016 at the Forschungszentrum Jülich

The John von Neumann Institute for Computing (NIC) supports research projects from a broad scientific spectrum including topics from Astrophysics, Biology and Biophysics, Chemistry, Elementary Particle Physics, Material Sciences, Condensed Matter, Soft Matter Sciences, Earth and Environment, Computer Sciences and Numerical Mathematics, Fluid Mechanics and Plasma Physics. The NIC symposium is held biennially in February and gives an overview of the activities and results of those projects which received computing time on the supercomputers at the Forschungszentrum Jülich through the NIC. This year the NIC symposium reached a new record of 200 scientists who attended the talks and poster session.

The participants were welcomed by the Forschungszentrum Jülich's Chairman of the Board of Directors Prof. Wolfgang Marquardt and the Director of the Jülich Supercomputing Centre (JSC) Prof. Thomas Lippert. Prof. Marquardt focussed on Big Data and its significance in scientific simulation. He shortly discussed a selection of emerging key challenges. Prof. Lippert expanded on

the challenges of Scientific Big Data Analytics (SBDA) in High Performance Computing (HPC). Additionally, he gave an overview of the JURECA system, the successor to the general purpose system JUROPA, which has been greatly accepted by the users of the JSC computer facilities.

Recent results and outcomes were presented in 14 insightful talks and in an overwhelming number of 120 posters. The symposium produced fruitful discussions after the talks and during the poster session and provided plenty of space for the exchange of ideas and experiences in an interdisciplinary scientific environment.

All accompanying materials such as the programme, talks, posters, proceedings, and photographs are available at <http://www.john-von-neumann-institut.de/nic/nic-symposium-2016>

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