



**SEVENTH FRAMEWORK PROGRAMME  
Research Infrastructure**

**FP7-INFRASTRUCTURES-2010-2 – INFRA-2010-1.2.3:  
Virtual Research Communities**

**Combination of Collaborative Project and Coordination and Support  
Actions (CP- CSA)**



**LinkSCEEM-2  
Linking Scientific Computing in Europe and the Eastern  
Mediterranean – Phase 2**

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**Table of Contents**

PROJECT AND DELIVERABLE INFORMATION SHEET ..... II

DOCUMENT CONTROL SHEET ..... II

DOCUMENT STATUS SHEET ..... II

DOCUMENT KEYWORDS ..... II

TABLE OF CONTENTS ..... III

EXECUTIVE SUMMARY ..... 4

1    BRIEF REPORT ON THE CONFERENCE ..... 4

## Executive Summary

The Partnership for Advanced Computing in Europe (PRACE) and the project Linking Scientific Computing in Europe and the Eastern Mediterranean (LinkSCEEM-2) organized the Conference on Scientific Computing 2013 (CSC 2013) in Paphos, Cyprus, during 3 - 6 December 2013.

The conference gathered the international High Performance Computing research community to present and debate new methods and results, covering a diverse range of topics from fundamental sciences to climate change and medical applications. Recent successes in Computational Science and Engineering obtained by using PRACE and LinkSCEEM infrastructure were highlighted.

LinkSCEEM-2 granted 27 fellowships for regional participants to enable participation in the conference and the poster session.

Deliverable D5.5 consists of the conference proceedings. The book of abstracts and the posters presented during the poster session are available from the LinkSCEEM webpage (following the conference link on the front page, <http://linksceem.eu/ls2/component/rsevents/event/27-international-conference-on-scientific-computing-csc-2013.html> ). In addition, a brief summary of the conference is given in this report.

### 1 Brief report on the Conference

Leading international researchers in computational science gathered to present highlights of their scientific work performed using PRACE and LinkSCEEM computational resources - including the Cy-Tera machine funded by the Cyprus Research Promotion Foundation.

CSC 2013 brought together 120 international computational scientists, amongst them the directors of the biggest High Performance Computing (HPC) facilities in Europe and the US. The European research community, local academics, scientists from the Eastern Mediterranean region and the United States had a momentous opportunity to exchange ideas, develop synergies and set out a vision for future development in various aspects of HPC.

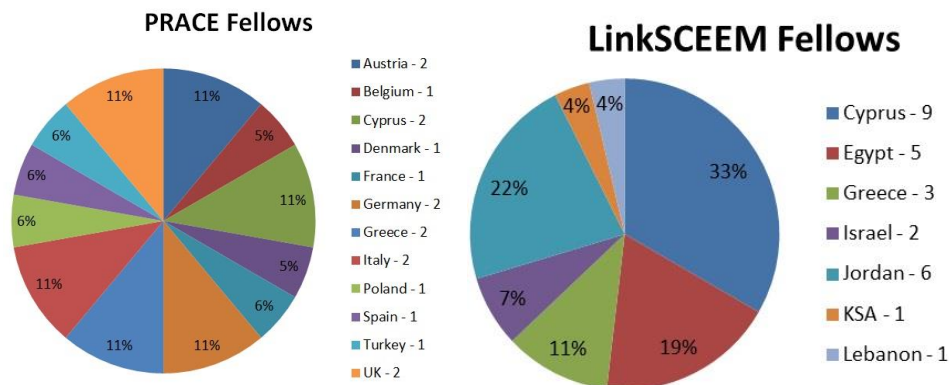
Participants had the opportunity to show recent success in HPC, present and debate new methods and results covering a diverse range of topics from fundamental sciences to climate change and medical applications. Scientists from Cyprus and the wider Eastern Mediterranean region used the opportunity to present local HPC related research activities to the international audience.



Conference highlights: From top left clockwise: a) Prof. Th. Lippert presenting plans for the next generation of high performance computers in Europe, b) C. Riviere, Chair of the PRACE Council, presenting during the Panel discussion, c) Poster Session, d) Three best posters award presented by Prof. C. Lang of the PRACE SSC.

The conference offered sessions, which focused on the Horizon 2020 program, with a representative of the European Commission (EC) presenting the funding program and initiatives, whilst giving extra attention to the calls related to HPC. High profile EU officials and prominent scientists participated in a panel discussion that focused on the needs of the HPC user communities. The priorities and aspirations of the EC in HPC in Horizon 2020 were highlighted to the participants allowing for lively discussions among policy-makers, researchers and representatives of computational centers on the available funding opportunities. Participants from the Eastern Mediterranean (EM) stressed the importance of projects like LinkSCEEM for supporting regional computational sciences and urged the EC to continue funding such initiatives.

PRACE provided 18 fellowships for young scientists from 12 PRACE member countries to come and present posters at the conference. Similarly, LinkSCEEM provided funding for 27 fellows from 7 EM countries to present their work at the poster session of the conference.



The distribution of PRACE and LinkSCEEM fellows per country can be seen in the above figure.

PRACE also provided funding for the prizes awarded to the three best posters as voted by participants of the conference. The conference participants voted on the best posters. One of these prizes was awarded to a poster from SESAME, Jordan with the topic of the poster being on Synchrotron radiation applications. A PRACE fellow from Sabanci University, Turkey was also amongst the winners with the topic of the poster being on molecular dynamics simulations on a human iron binding protein. The final poster prize was awarded to a LinkSCEEM fellow from the The Cyprus Institute with the topic of the poster being in Lattice Quantum Chromodynamics. Each of the poster prizes comprised of a statue of Aphrodite and 350 Euro for each winner to attend a scientific conference in their respective fields. The prizes were awarded by Professor C. Lang who is a member of the PRACE Scientific Steering Committee.



Group picture of the CSC 2013 participants.