

2013 Highlights

Research team

At the end of 2013 the center research team consisted of eight senior researchers (4 at AU), five Postdocs (all at AU) and fourteen PhD students (7 at AU).

Additionally, five further Postdocs and six PhD students (who obtained PhD degrees during the year) were part of the center in 2013. Almost all center Postdocs are internationals and so are well over half of the PhD students.



Research collaboration and results

In 2013 MADALGO researchers published 92 peer-reviewed research papers within the center research areas. Several of these papers have appeared in highly ranked journals and conference proceedings. Some of the results in the papers have been obtained with the many international researchers that have visited MADALGO in 2013. The center also has extensive multidisciplinary and industry collaboration.



Sorting is one of the most fundamental computational tasks. In 2013 MADALGO researchers developed sorting algorithms that are simultaneously efficient in terms of CPU time and movement of data between internal and external memory. The results received the best paper award at the 2013 Int. Symposium on Algorithms and Computation.

Center Events

Apart from a large number of smaller research seminars and workshops, as well as a retreat for center employees, MADALGO organized a four day international summer school on Data Structures in 2013, where four international experts, including Turing Award winner Robert Tarjan from Princeton University, lectured for a record number of 82 participants (mostly PhD students) from 44 institutions in 18 countries. The center also organized the Fifth Workshop on Massive Data Algorithmics (MASSIVE 2013) as part of the main European algorithms event ALGO in Sophia Antipolis, France.



In 2013 center researchers gave numerous presentations at international research conferences, as well as more than 30 invited presentations at research conferences, workshops and seminars. Center researchers have also participated in several public outreach activities, and in April the then Danish Minister for Science, Innovation and Higher Education, Morten Østergaard visited MADALGO to discuss how MADALGO has successfully integrated basic research and innovation.

Awards and acknowledgments

Center researchers received a number of awards and acknowledgments in 2013 including the following:

Center Director Arge received the ISACC 2013 best paper award and was appointed Associate Editor of ACM Transactions on Spatial Algorithms and Systems. Center senior researcher Jensen was elected member of Academia Europaea, Demaine was elected a Guggenheim Fellow and received the EATCS Presburger Award, and Indyk received the ACM Paris Kanellakis Theory and Practice Award.

Center Advisory Board member Pankaj K. Agarwal was appointed Honorary Doctor at Aarhus University.

