

HPI Kolloquium

16.07.2015, 16:00 Uhr

Hasso-Plattner-Institut, Vorlesungsgebäude, Auditorium 2
Campus Griebnitzsee, 14482 Potsdam

“Disruptive Trends in High Performance Computing”

Dr. Eng Lim Goh

SVP & CTO Silicon Graphics

Abstract

In the next few years the high performance computing industry is expected to go through major changes that will significantly affect applications. This is attributed to a combination of technologies that are maturing across the entire system hierarchy, i.e. from the processor, memory, IO, storage to the network. Additionally there are user and societal factors. From the former, the expectation for AI-driven autonomous systems management, resiliency, data exploitation and the Cloud. From the latter, the progressive public expectation around energy efficiency and changes in funding as major economies of the world recover.

Short CV

Dr. Eng Lim Goh joined SGI in 1989, becoming a chief engineer in 1998 and then chief technology officer in 2000. He oversees technical computing programs with the goal to develop the next generation computer architecture for the new many-core era. His current research interest is in the progression from data intensive computing to analytics, machine learning, artificial intelligence and autonomous systems. In 2005, InfoWorld named Dr. Goh one of the World's 25 Most Influential CTOs. He was included twice in the HPCwire list of "People to Watch", both in 2005 and 2015. In 2007, he was named "Champions 2.0" of the industry by BioIT World magazine, and received the HPC Community Recognition Award from HPCwire. Dr. Goh is a frequent industry speaker and he continues to discuss, in different forums, innovative technologies and their applications. He co-presented with NASA at the 1st plenary of the Supercomputing 2014 Conference to a 1,700 person audience. Before joining SGI, Dr. Goh worked for Intergraph Systems, Schlumberger Wireline and Shell Research. A Shell Cambridge University Scholar, Dr. Goh completed his Ph.D. research and dissertation on parallel architectures and computer graphics, and holds a first-class honors degree in mechanical engineering from Birmingham University in the U.K. Dr. Goh has been granted four U.S. patents, two of which as the inventor and the others as co-inventor.

Hosts

Prof. Dr. Andreas Polze, Dr. Matthias Uflacker