



Extreme Performance Computational Science French-Japanese Conference

**Monday April 14th – Tuesday April 15th, 2014
at the Embassy of France in Japan, Tokyo**

High performance computing (HPC) is now required for innovations in several fields with a great impact on economic growth and social welfare. In the field of environment, it enables simulation of climate evolution, geosciences, flooding and earthquake detections. It also plays a prevalent role for health, including modelisation of human body, as well as new drugs design. Computational science is becoming the heart of a wide range of industrial developments in the energy sector or the aeronautics sector. HPC systems used for cutting-edge of advanced computational science have reached sustained petaflops (a million billion calculations per second) performance, on the road to exascale computation by the end of the decade, and end-users in different kind of applications (environment, life sciences, energy, aeronautics...) are exploring how to program such new and future machines.

Companies, countries, and organisations which will have prepared large scientific labs and supercomputers centres for future exascale computing would have an enormous advantage for future scientific and economic developments. US, Japan, China and UE have projects to develop such centres and scientific expertise and teams. Japan, which announced early 2014 the development of an exascale supercomputer by Riken by 2020, is strongly committed in the race towards Extreme Performance Computing. In order to break the exascale barrier, advancing science and technology, and therefore, strengthening international collaborations is essential. French and Japanese researchers collaborate since several years to propose new programming paradigm, language, algorithms and software solutions for future efficient and scalable computational science.

This workshop aims at synthesizing the existing French-Japanese collaborations, and making the computational sciences community meet the end-user community for different applications, in order to launch new collaborative research projects.

Attendance to the conference is by invitation only

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Language: The conference will be held in English only

Organizers: - Embassy of France in Japan – Department for Science and Technology
- RIKEN Advanced Institute for Computational Science (AICS)
- Maison de la Simulation

Location: Embassy of France in Japan, Tokyo, 1F Conference room
4-11-44 Minami Azabu, Minato-ku, Tokyo 106-8514
7 minutes walking from exit 1 of Hiroo Tokyo Metro Station (H-3 Hibiya Line)
Map available here: <http://www.ambafrance-jp.org/Plan-d-acces-a-l-Ambassade>

FRENCH JAPANESE CONFERENCE 日仏カンファレンス

APRIL 14 & 15, 2014 (MON & TUE)
平成26年4月14日-15日(月-火)

EXTREME PERFORMANCE COMPUTATIONAL SCIENCE エクサスケールスパコンによる計算科学

CONFERENCE VENUE:
EMBASSY OF FRANCE IN TOKYO
会場: 在日フランス大使館

