

# WWCEKD 2011: The First International Workshop on World Wide Computing Environments for Knowledge Discovery

Osaka, Japan (March 29-30, 2011)

<https://sites.google.com/site/wwcekd2011/>

Sponsored by Japan Science and Technology Agency (JST), Japan  
and l'Agence Nationale de la Recherche (ANR), France

## Call for Papers

**THEME: Exploring scientific findings by knowledge modeling using high performance computing, synthesized middleware and advanced networking technologies**

The past decennium is characterized by a constant increase in information technology and computational resources. The constant evolution of supercomputers on central locations requests suitable protocols to transport efficiently large amounts of data along national and international networks as well as a suitable approach to visualize large amount of data off and on-line.

This evolution in technology is not remained unnoticed in the field of fluid mechanics where high precision computation as well as large scale phenomena is frequently requested. Consequently, the workshop intends to be a forum among several communities, such as information technology, information networking, fluid mechanics, system biology, physiome, visualization and computational science. Applications of numerical simulations in the field of biological, laser fusion, cosmic physics and art cultures are discussed. For example, numerical simulations of the human respiratory system (such as speech production or blood flow in the lungs) for which high precision are required in particular, a large scale simulation and its validation are, thus, required strongly when the target of the applications is advancing medical technologies. Visualization technologies are growing significant role of promoting computational science which export complicated and large scale data.

In conclusion, the workshop aims at providing from for inter-disciplinary encounters among technology, physiological object modeling, physical modeling, simulations and visualizations with a very rich application fields in biological, nuclear fusion and cosmic phenomena.

## TOPICS OF INTEREST

- Multi-physics and scale simulations
- Visualization technology
- Grid technology for scientific applications
- High performance computing technology
- High speed network technology
- Cloud computing
- Virtual Reality
- Bio-medical engineering
- Physiome
- Systembiology

## CONTRIBUTIONS

Workshop abstract (A4 paper, within 400 words including a title and authors) submission will be done by sending an email to WWCEKED office ([wwceked2011@dentgrid.com](mailto:wwceked2011@dentgrid.com)). Workshop abstract will be reviewed by reviewers. Authors are requested to register at the same time of their abstract submission. We will accept your application until **25th February 2011**. The application can be achieved by sending email ([wwceked2011@dentgrid.com](mailto:wwceked2011@dentgrid.com)). WWCEKED2011 Proceedings will be distributed on the WWCEKED2011 web site.

## IMPORTANT DATES

- 25th February Abstract submission
- 7th March Notification of acceptance
- 29th March 1st day
- 30th March 2nd day in conjunction with the 5th CMC-CAVE (Cybermedia Center CAVE) workshop

## TECHNICAL PROGRAM COMMITTEE

### Program Chairs

Shinji Shimojo, NICT, Japan  
Annemie van Hirtum, Gipsa-lab, France

### Program Committee Members

Bruno Raffin, INRIA (Grenoble), France  
Eisaku Sakane, NII, Japan  
Hiroyuki Ohsaki, Osaka University, Japan  
Ingo Assenmacher, INRIA (Grenoble), France  
Julien Cisonni, Osaka University, Japan  
Kazunori Nozaki, Osaka University, Japan  
Kenichi Baba, Osaka University, Japan  
Kohji Koyamada, Kyoto University, Japan  
Naohisa Sakamoto, Kyoto University, Japan  
Paulo Goncalves, INRIA (Lyon), France  
Yasuo Ebara, Osaka University, Japan

## CONFERENCE VENUE

Ityo kaikan and Cybermedia Center (CMC), Osaka University  
5-1 Mihogaoka, Ibaraki, 567-0047, Osaka  
JAPAN  
Phone: +81 (0)6 6879 8791  
FAX: +81 (0)6 6879 8794  
Front desk: [wwceked2011@dentgrid.com](mailto:wwceked2011@dentgrid.com)

## PROTECTION OF PERSONAL INFORMATION

The information gathered will be put into a data base to be used for the organization of the conference. In conformance with the Japanese law "Act on the Protection of Personal Information, in Japan", you have a right to access and rectify any information concerning you.