

2012 Graduate General Education (筑波大学大学院共通科目)  
“Computational Science Literacy”(計算科学リテラシー)

Nov. 27-28, 2012, Center for Computational Sciences, Univ. of Tsukuba

Computational Science is a forefront approach in science and technology solving complex problems with supercomputers. It is recognized as an indispensable approach equal to experiments and theory in many research fields. It is highly recommended for those who will be working in research of any fields to learn basic knowledge and methodology of computational sciences. In this lecture, professors belonging to Center for Computational Sciences will overview researches with computational method in various fields of science. The lecture aims to provide a literacy of computational method and a comprehensive view across scientific fields through computational approaches.

(01ZZ605 · one credit Register through TWINS by 26, Nov. 2012.)

Place : Center for Computational Sciences, Meeting Room A

Nov. 27 (Tuesday)

10 : 30-12 : 00 Database for computational sciences

H. Kawashima Division of Computer Science, Faculty of Engineering, Information and Systems

13 : 00-14 : 30 Recent Progress of Vision Media Applications by Computational Science

Y. Kameda Division of Intelligent Interaction Technologies, Faculty of Engineering, Information and Systems

14 : 45-16 : 15 Growing galaxies in supercomputers

T. Okamoto Division of Physics, Faculty of Pure and Applied Sciences

16 : 30-18 : 00 Computational methods in the laser-material interactions

X.M. Tong Division of Materials Science, Faculty of Pure and Applied Sciences

Nov. 28 (Wednesday)

10 : 30-12 : 00 Study of hadron physics with Lattice QCD

N. Ishizuka Division of Physics, Faculty of Pure and Applied Sciences

13 : 00-14 : 30 Large scale computation in nuclear physics

K. Yabana Division of Physics, Faculty of Pure and Applied Sciences

14 : 45-16 : 15 Universal tree of the life inferred from DNA and protein sequence data

T. Hashimoto Division of Biological Sciences, Faculty of Life and Environmental Sciences

16 : 30-18 : 00 Computational physics study toward future nano-devices

K. Shiraishi Division of Physics, Faculty of Pure and Applied Sciences