2015 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)

Feb. 22 and 24, 2015, Room B(Feb. 22) and Room C(Feb. 24),
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　from 3 Feb to 21　2016）

Feb. 22(Monday) Place：Center for Computational Sciences,　Meeting Room B

10：10-11：25　Study of hadron physics with Lattice QCD
N. Ishizuka　Division of Physics, Faculty of Pure and Applied Sciences

12：15-13：30　Computational methods in the laser-material interactions
X.M. Tong　Division of Materials Science, Faculty of Pure and Applied Sciences

13：45-15：00　Large scale computation in nuclear physics
K. Yabana　Division of Physics, Faculty of Pure and Applied Sciences

15：15-16：30　Scalable data processing in the cloud
T. Amagasa　Division of Information Engineering, Faculty of Engineering, Information and Systems

16：45-18：00　Making a Report
H. Kusaka　Division of Geoenvironmental Sciences, Faculty of Life and Environmental Sciences

Feb. 24 (Wednesday) Place：Center for Computational Sciences,　Meeting Room C

10：10-11：25　Numerical calculation on high performance parallel computer
D. Takahashi　Division of Information Engineering, Faculty of Engineering, Information and Systems

12：15-13：30　Numerical simulations in astrophysics
M. Mori　Division of Physics, Faculty of Pure and Applied Sciences

13：45-15：00　Computational Science in the　Meteorology and Climatology Fields
H. Kusaka　Division of Geoenvironmental Sciences, Faculty of Life and Environmental Sciences

15：15-16：30　Universal tree of life inferred from DNA and protein sequence data
T. Hashimoto　Division of Biological Sciences, Faculty of Life and Environmental Sciences

16：45-18：00　Making a Report
H. Kusaka　Division of Geoenvironmental Sciences, Faculty of Life and Environmental Sciences

For details about the course: contact GGEC office at #5837
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