From Computational Biophysics to Systems Biology (CBSB11) – Celebrating Harold Scheraga's 90th Birthday

Proceedings, 20 – 22 July 2011 | Jülich, Germany

Paolo Carloni, Ulrich H.E. Hansmann, Thomas Lippert,
Jan H. Meinke, Sandipan Mohanty, Walter Nadler,
Olav Zimmermann (Editors)

JÜLICH
FORSCHUNGSZENTRUM

Member of the Helmholtz Association

Forschungszentrum Jülich GmbH
Institute for Advanced Simulation (IAS)
Jülich Supercomputing Centre (JSC)

From Computational Biophysics to Systems Biology (CBSB11) – Celebrating Harold Scheraga's 90th Birthday

Proceedings, 20 – 22 July 2011 | Jülich, Germany

edited by Paolo Carloni, Ulrich H.E. Hansmann, Thomas Lippert, Jan H. Meinke, Sandipan Mohanty, Walter Nadler, Olav Zimmermann

Schriften des Forschungszentrums Jülich
IAS Series Volume 8

ISSN 1868-8489 ISBN 978-3-89336-748-1

Contents

The fifth workshop in the series “From Computational Biophysics to Systems Biology” (CBSB) took place from 20 to 22 July 2011 at Forschungszentrum Jülich. It was dedicated to Harold Scheraga who celebrated his 90th birthday that year. Dr. Scheraga pioneered the use of computers in chemistry and biology. His work inspired many of the research areas that are the topic of this meeting, ranging from biophysics to systems biology. In the spirit of Harold Scheraga’s work, the workshop brought together researchers from physics, chemistry, biology, and computer science to acquaint each other with current trends in computational biophysics and systems biology, to explore avenues of cooperation, and to establish together a detailed understanding of cells at a molecular level.

These proceedings contain about 50 contributions from the CBSB11 workshop including a Laudation for Harold Scheraga by Jeff Skolnick and Harold Scheraga’s biographic keynote lecture.

This publication was edited at the Jülich Supercomputing Centre (JSC) which is an integral part of the Institute for Advanced Simulation (IAS). The IAS combines the Jülich simulation sciences and the supercomputer facility in one organizational unit. It includes those parts of the scientific institutes at the Forschungszentrum Jülich which use simulation on supercomputers as their main research methodology.

IAS Series
Volume 8
ISBN 978-3-89336-748-1

JÜLICH
FORSCHUNGSZENTRUM