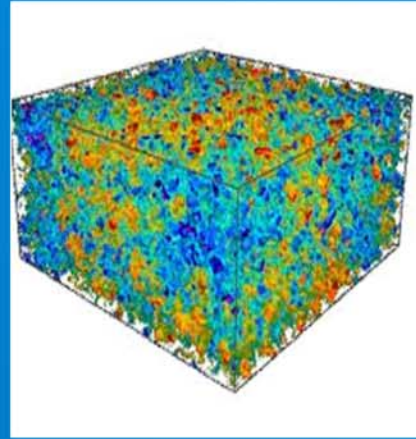
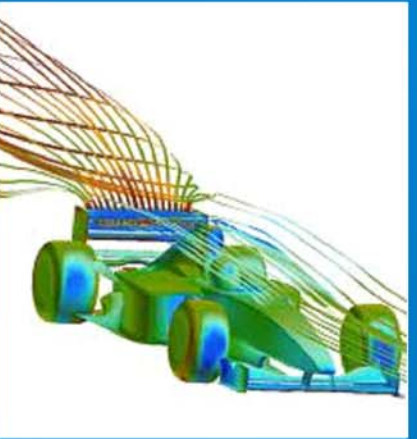


(NCHPCS-2013)

National Conference on High Performance Computing & Simulation January 18-19, 2013, Berhampur, Odisha



Organized by
School of Computer Science & Engineering
National Institute of Science and Technology
Berhampur, Odisha – 761008
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 **NATIONAL INSTITUTE OF SCIENCE AND TECHNOLOGY**
Palur Hills, Berhampur, ODISHA-761008

NATIONAL CONFERENCE ON HIGH PERFORMANCE COMPUTING & SIMULATION JANUARY 18-19, 2013, BERHAMPUR, ODISHA

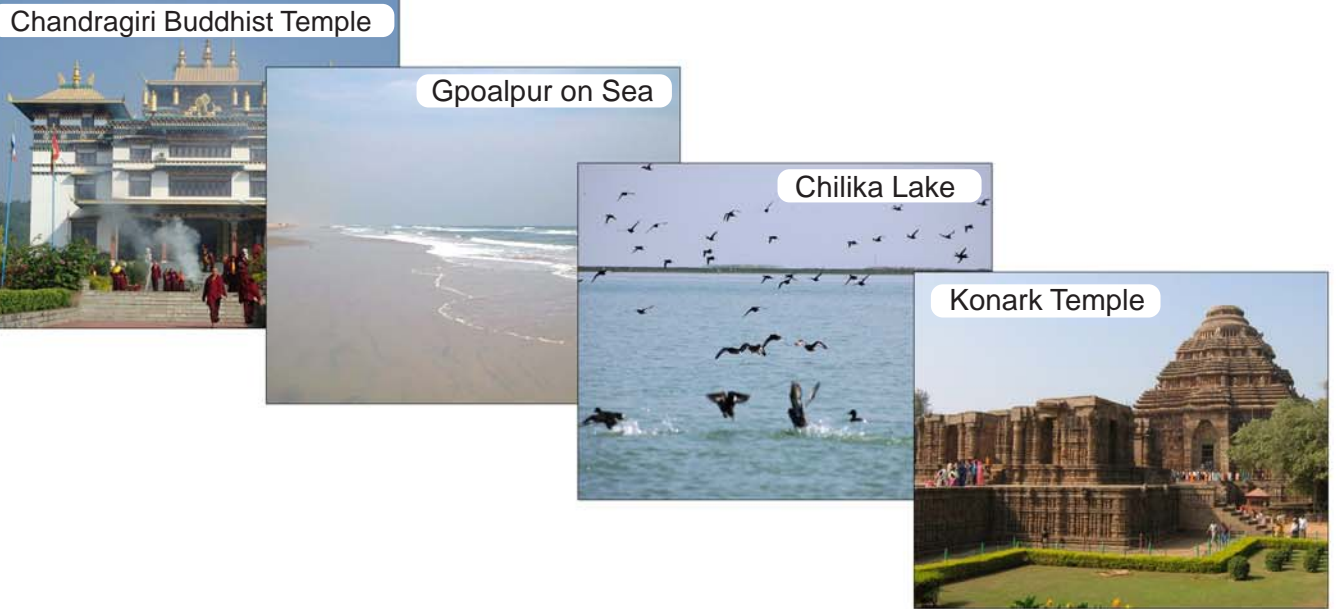
REGISTRATION FORM

Name :
Designation :
Address for Correspondence :
.....
Phone No. (Office) :(Residence) :
Email :
Title of the Paper :
I plan to attend the Tutorial/Workshop : Yes / No
I plan to present a oral/poster paper : Yes / No
Accommodation required : Yes / No
Registration fee details
DD No.&Date :

(To be drawn in favour of "NCHPS-2013" at any nationalized bank, to be payable at Berhampur, Orissa, India)

Date: _____ Signature _____

ADDRESS FOR COMMUNICATION
Dr. Motahar Reza, Convener
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HOW TO REACH BERHAMPUR

Those who are coming from abroad can take a flight to Bhubaneswar which is connected to Delhi, Mumbai and Kolkota by daily flights of Air India, King Fisher, Indigo, Jet Airlines etc. On reaching Bhubaneswar, Volunteers of NCHPCS -2013 at the airport will guide and arrange transport to Berhampur and Gopalpur on sea (places of accommodation) by road. The travel from Bhubaneswar Airport to Gopalpur on sea will take approximately three and half hours. Those who are traveling by train may note that Berhampur is well connected with most of the major cities of India. Transport will be arranged from Berhampur railway station to respective places of accommodation during the workshop.



BRIEF INTRODUCTION to NCHPCS-2013

The National Conference on High Performance Computing and Simulation (NCHPCS 2013) is devoted to the impact of high performance computing on computer simulations.

Advances in multicore and many-core architectures, networking, high end computers, large data storages, and middleware capabilities are ushering in a new era of high performance parallel and distributed simulations. Along with these new capabilities come new challenges in computing and system modeling.

The conference is to address, explore and exchange information on the state-of-the-art in high performance and large scale computing systems, their use in modeling and simulation, their design, performance and use, and their impact. Participation is extended to researchers, designers, educators and interested parties in all related disciplines and specialities.

OBJECTIVE

The conference will include invited presentations by experts from academia and industry as well as contributed paper presentations describing original work on the current state of research in HPC& simulation technologies and systems and related issues. It will promote the exchange of ideas and information between universities, industry and national laboratories about new developments in system modeling, high performance computing and communication, scientific computing and simulation.

FOCUS OF THE CONFERENCE (Topics of interest)

- ❖ High-Performance Computing
- ❖ Parallel and Distributed Algorithms/Systems
- ❖ Parallel Languages and Programming Environments
- ❖ High performance/large scale application case studies
- ❖ Multi-core and many-core computing
- ❖ Cloud, distributed, and grid computing
- ❖ Hybrid system modeling and simulation
- ❖ Large scale visualization and data management
- ❖ Tools and environments for coupling parallel codes
- ❖ Parallel algorithms and architectures
- ❖ High performance software tools
- ❖ Advances in Computational Methods in CFD
- ❖ High-Performance and Distributed Computing for Financial Applications
- ❖ HPC Systems for Biomedical, Bioinformatics, and Life Sciences
- ❖ Parallel Evolutionary Computation



TECHNICAL PROGRAMME

The technical programme will consist of six sessions spread over two days. This will include plenary lectures by invited speakers and contributed papers in the form of oral & poster presentations.

TUTORIALS

The conference will offer tutorials (typically 2-4 -hours) on state-of-the-art topics in HPCS. Lab classes on High performance computing will be conducted in sequence or in parallel cross platforms using the middle-ware for job scheduling and job monitoring facilitated by Ganglia and message passing interface (MPI) parallel library .

High Performance Computing (HPC) Facility of NIST

The HPC of NIST is based on Dell PowerEdge R610Rack Server with Dual Intel XeonQuadcoreE5620 @2.93 GHz processors with a total 4 servers (64 Processors)12GB RAM / 3x300 GB SAS HDD/ RAID – 5/RPS/ Dual NIC.

PAPER SUBMISSION

Abstracts of original papers not more than 300 words for oral & poster presentation should be sent as soft copy to the convener by e-mail by November 15, 2012. The abstracts accepted for presentation will be intimated to

the authors by November 25, 2012.

Authors should submit the full text of the papers, not exceeding six double space typed pages including figures and tables, in the form of a soft copy before December 15, 2012. Proceedings will be published by a reputed publisher.

PARTIAL LIST OF INVITED SPEAKERS (TENTATIVE)

Dr. A. K. Pani, IIT Bombay
Dr. Amalendu Chandra, IIT Kanpur
Dr. Gautam Biswas, CMERI Durgapur
Dr. K. Ganapathy Ayappa, IISc Bangalore
Dr. N. Behera, KIIT Bhubaneswar
Dr. Nandini Mukherjee, JU Kolkata
Dr. P. P. Chakrabarti, IIT Kharagpur
Dr. P. A. Sreeram, IISER Kolkata
Dr. P. K. Patra, CET Bhubaneswar

Dr. Pradeep K Sinha, C-DAC India
Dr. Pradipta Bandyopadhyay, JNU Delhi
Dr. R Mall, IITKharagpur
Dr. S. Chakraborty, IIT KGP
Dr. S. K. Aggarwal, IIT Kanpur
Dr. S. Patkar, IIT Madras
Dr. S. Padhy, IIIT Bhubaneswar
Shri Bibhu Dash, Hewlett Packard (HP), India
Shri Vivek Gokhale, Intel Inc, India

REGISTRATION FEE

Registration fees which will take care of the lunch, tea, seminar material and local hospitality during the conference period are specified below:

Research Scholars and Students (Indian) Rs. 500

Academic staff/faculty (Indian) Rs. 1000

Industrial Personnel (Indian) Rs. 3000

Accompanying person (Indian/Foreign) Rs. 1000

The registration fee may be paid in advance; by bank draft at any nationalised bank drawn in favor of “NCHPCS-2013” payable at Berhampur, Odisha.

ACCOMMODATION

Accommodation can be arranged on request, which must reach the convener on or before December 1, 2012. The approximate charges are Rs.100 in Engineering College Hostels and Rs.400 to Rs.700 in nearby hotels per day.

The accommodation charges will be borne by the participants

ADVISORY COMMITTEE

Prof. A. K. Pani, IIT Bombay
Prof. A. M. Jayannavar, Director, IOP Bhubaneswar
Prof. Amalendu Chandra, IIT Kanpur
Prof. Gautam Biswas, CMERI Durgapur
Prof. J. Satpathy, Vice Chancellor, BPUT, Rourkela
Prof. K. L. Chopra, Former Director, IIT, Kharagpur
Prof. P. P. Chakrabarti, IITKharagpur
Prof. P. K. Patra, CET Bhubaneswar
Prof. R. Mall, IITKharagpur
Prof. S. Padhy, IIIT Bhubaneswar
Prof. Sanjay Kumar, BHU Varanasi
Dr. Pradeep K Sinha, C-DAC, India

PATRONS

Prof.Sangram Mudali, NIST Berhampur

ORGANIZING COMMITTEE

Prof. Sangram Mudali, NIST Berhampur (Chairman)
Prof. Geetika Mudali, NIST, Berhampur (Co-Chairman)
Dr. Motahar Reza (Convener)
Mr. Shom Prasad Das (Co-convener)
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Dr. Diptendu Sinha Roy
Dr. Mihir Hota
Dr. Sukanta K Tripathy
Dr. Tanmay K das
Dr. Sujit K Samanta
Dr. Anupam Priyadarshi

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Mr. Bhawani Shankar Patnaik
Mr. Bisnu Kar Nayak
Mr. Chandan Behera
Mr. Chinmay Sahu
Mr. Debananda Kanhar
Mr. Jaydip Sen
Mr. K. Hemanta Reddy
Mr. Pradeep K Jena
Mr. Rabindra Shial
Mr. S. B. Neelamani

ABOUT NIST

National Institute of Science & Technology was set up in 1996 and is being managed by the SM Charitable Educational Trust with the aim “to create Engineering minds capable of mastering the global challenges of tomorrow’s technology” by promoting higher technical education. It is approved by AICTE and affiliated to BPUT. The institute campus is of more than 60 acres of land located at picturesque Palur hills about 15 kms from Berhampur and 3½ hours drive from Bhubaneswar. The institute is headed by Prof. Sangram Mudali. About 3000 students are studying in various disciplines of M.Tech, B.Tech.,MCA, MBA &PGDM at NIST.

Within a short span of 16 years, NIST has produced 4 BOYSCAST scholars, 2 Fulbright scholars, 3 SamantChandrashekhara Young Scientist Awardees and more than 20 Post-Doctorate scholarships have been awarded to the institute faculty. Our faculty members have published more than 15 books and 120 international journal papers in refereed journals. In 2010 NIST got the TIFAC-CORE project on “3G/4G Communication Technologies” from DST & Industry Partners.

The institute has tied-up with companies like Cadence, IBM, Infosys, Wipro, Mphasis and TCS etc. for projects and technical certification courses through various Industry-Institute interaction programmes. Recently Cadence, National Instruments and IBM have established their Center of Excellence.

NIST has State-of-the-art-laboratories with equipment like, Distributed Control Systems, PLC, Interactive-Non Interactive Process Trainer, Batch Process Reactor Trainer, Level Transmitter Trainer, 5 HP shunt motor coupled to 3 KVA alternator salient pole type with 3 point starter field regulator for motor, alternator & experimental panel, TRANSFORMER Experimental Trainer, AC DRIVE, AC SOFT STARTER, PLC MACHINE & DRIVE, SYMBOLSShakti, Software like, Synopsis, Cadence, IE3D, Tanner, Xilinx, and Equipments like, Vector Network Analyzer, Semiconductor Parameter Analyzer, FPGA Board, etc. The campus is completely networked and through the use of load levelers can access high end work stationsand parallel computers (HPC) in the central campus computing facilities.

ABOUT BERHAMPUR

Famous for its silk, Berhampur, the major commercial town of the district of Ganjam, is a convenient base point from where a tourist can plan her/his visit to various places of interest in the area. The sea shore town of Gopalpur located at a distance of 15 km from Berhampur, with blue beaches attracts visitors from round the globe and offers facilities for ‘Sun - Sand - Surf’ to them all year round. The back waters of the Blue Bay enhance the beauty of the quiet beach. At a distance of 50 km from Berhampur, amidst lush green forests is Taptapani famous for its hot spring. The hot water is channelised to a pond nearby to facilitate fascinating baths. A Panthanivas (tourist lodge) of the Orissa Tourism Development Corporation (OTDC) provides accommodation to the tourists

The Golden triangle of Orissa comprising Bhubaneswar, Puri and Konark attracts tourists from around the world. The city of Bhubaneswar abounds in temples built over several centuries. Puri, famous for its beaches and the Jagannath temple, is a pilgrim centre for the Hindus. Only a portion of the Sun Temple at Konark, the largest of the temples of the Golden Triangle exists today, and it is still staggering in its size. Chilika the biggest brackish water lake famous for its bird sanctuary is on the way from Bhubaneswar to Berhampur. Sixty kms from here is a unique place called Chandragiri, a Tibetan settlement inside the heart of Odisha.

