

## ORGANIZING COMMITTEE

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### Patron

**Dr.R.Prabhakar**, Professor Emeritus & Secretary  
CIT Institutions, India  
**Prof.Håvard Helstrup**, Dean of Research, BUC, Norway

### International Coordinator

**Prof.Dhayalan Velauthapillai**  
Department of Engineering, Bergen University College, Norway

### Conference Chair

**Dr.V.Selladurai**, Principal, CIT

### Co-Chairs

**Dr.K.S.Ramaswamy**, HOD, Department of Mathematics, CIT  
**Prof.K.S.Palanisamy**, HOD, Department of Computer Science and Engineering and Information Technology, CIT

### Organizing Secretaries

**Dr.N.Nagaveni**, Department of Mathematics, CIT  
**Dr.R.Renuga**, Department of Computer Science and Engineering and Information Technology, CIT

### Co-ordinators

**Dr.A.Kunthavai**, Department of Computer Science and Engineering and Information Technology, CIT  
**Prof. S.Dayana Mary**, Department of Mathematics, CIT

### Co-organizing Secretaries

**Dr.M.Sangeetha**, Department of Computer Science and Engineering and Information Technology, CIT  
**Prof.T.Ramraj**, Department of Computer Science and Engineering and Information Technology, CIT  
**Prof. D.Sheeba**, Department of Mathematics, CIT

### Organizing Committee Members

**Department of Mathematics, CIT**  
**Dr.S.Somasundram**  
**Dr.V.Shanthi**  
**Dr.R.Navamani**  
**Dr.R.Lavanya**  
**Dr.B.Gokila**  
**Prof.R.Sutharani**

## Department of Computer Science and Engineering and Information Technology, CIT

**Dr.G.Kousalya**  
**Prof.D.Mohana**  
**Dr.M.Rajalakshmi**  
**Prof.A.N.Senthilvel**  
**Prof.P.Kumudha**

### Important Dates

Full Paper Submission : 10.10.2014  
Acceptance Notification : 30.10.2014  
Camera Ready Paper : 12.11.2014

### Registrations

At least one of the authors of the paper and all participants should register on or before **28.11.2014**

Type	Type Foreign Delegates (USD)	Indian Delegates (INR)
Industry Delegates	350	5000
Academic Delegates	300	4000
Student Delegates	200	3000

Registration fee includes Conference kit, Softcopy of the Proceedings, Food and Banquet.

### Mode of Payment

1. Demand Draft in favour of "ICGHIA14" payable at **Coimbatore**.
2. Bank Transfer
3. Credit Card payment : For details, please visit conference website.  
**website : [www.ICGHIA2014.in](http://www.ICGHIA2014.in)**

### Address for Communication

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### International Coordinator

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## INTERNATIONAL CONFERENCE ON GRAPH ALGORITHMS, HIGH PERFORMANCE IMPLEMENTATIONS AND APPLICATIONS

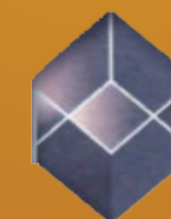
Organized by

Department of Computer Science and  
Engineering and Information Technology  
and  
Department of Mathematics



COIMBATORE INSTITUTE OF TECHNOLOGY

INDIA



HØGSKOLEN I BERGEN

BERGEN UNIVERSITY COLLEGE  
NORWAY

Venue :

COIMBATORE INSTITUTE OF TECHNOLOGY  
Coimbatore, India

December 17 -19, 2014

ICGHIA14 is jointly organized by the Department of Computer Science and Engineering and Information Technology and Department of Mathematics. The objective of the Conference is to bring together researchers and experts from industries to exchange and share their experiences and research solutions about all aspects of Graph Theory, High Performance Implementations and their applications and to discuss the practical challenges and solutions adopted.

#### Themes of the Conference

- ❖ Graph Theory
- ❖ Grammars and Languages
- ❖ Computational Mathematics
- ❖ Topology
- ❖ Simulation and Modeling
- ❖ Grid Computing
- ❖ Cloud Computing
- ❖ Distributed Computing
- ❖ Bio Informatics
- ❖ Image Processing
- ❖ Data Mining and Data Warehousing
- ❖ Network Analysis
- ❖ Mobile and Sensor Computing
- ❖ Robotics
- ❖ Software Defined Networks
- ❖ Artificial Intelligence
- ❖ Privacy Preservation
- ❖ Graph Mining

#### Invited Speakers

##### Dr. Dhayalan Velauthapillai

Professor, Bergen University College, Norway

##### Dr. Rajkumar Buyya

Professor, Computing and Information Systems, University of Melbourne, Australia

##### Dr. Hong Shen

Professor, School of Computer Science, Adelaide University, Australia

##### Dr. Reggie Davidrajuh

Professor, Department of Electrical Engineering and Computer Sciences, University of Stavanger, Norway

##### Dr. R.K.Shyam Sundar

Senior Professor, Tata Institute of Fundamental Research, Mumbai

##### Prof. Visveswaran

Chief Mentor, HexawareTechnologies Limited, Chennai

#### Publications

It is planned to publish the selected research papers in reputed International journals.

#### Organizers

##### Coimbatore Institute of Technology, Coimbatore, INDIA

Coimbatore Institute of Technology was established in the year 1956 and is one of the most reputed and prestigious Educational Institution in South India. The Institute is backed by world-class research and development and attained autonomous status in 1987 and is affiliated to Anna University - Chennai. The Institute has the services of competent and qualified faculty and visionary management to enhance the quality of education at all levels and maintain its position in the emerging globalization.

There are 7 undergraduate programs, 11 postgraduate programs in engineering and 10 research programs in different disciplines of Science and Engineering leading to Ph.D degree. All the Departments are well-equipped to meet the needs of the latest technological trends and international standards. The Institute functions in collaboration with reputed Colleges and Universities abroad in cutting-edge technologies. Experts are invited from various countries to the Institute for interaction and exchange of expertise. National and International conferences, symposia and workshops in different fields of Science, Engineering and Technology are being organized regularly to update and keep in step with the rapid growth of Science and Technology.

##### Bergen University College, Bergen, NORWAY

Bergen University College is a state Educational and Research Institution that offers a broad range of high quality Bachelor and Masters Programs directed towards specific professions in the society. With 7000 students, 700 academic and administrative staffs, Bergen University College is one of the leading Institutions of higher education in Norway. It comprises of 3 faculty, each with individual character, based on strong professional traditions. The Faculty of Education, the Faculty of Engineering and the Faculty of Health and Social Sciences provide the core of the academic structure and offer a wide range of Bachelor and Masters Programs. Faculty of Engineering provides education in 12 different disciplines of engineering. Deliberate R&D activities are organized in programs to promote high quality research in the areas which are strategically important.

Bergen University College is engaged in National and International collaboration in order to enhance the quality and relevance of study programs, research and development projects. The international cooperation with Educational institutions is of great value and Bergen University College has established formal partnerships with Institutions worldwide.

#### About the Department of Computer Science & Engineering and Information Technology

The Department of Computer Science & Engineering and Information Technology was established in the year 1986. It is one of the active departments at CIT which offers Undergraduate, Postgraduate and Ph.D. programs. The Department is committed to high standard of academic excellence & aims to provide the students a sound foundation of theory and practice in Computer Science & Engineering and expose them to the forefront of the developments in the field of computing. Many faculty are specialized in the areas of High Performance Computing, Cloud Computing, Mobile Computing, Wireless Networks, Soft Computing, MultiMedia Networks, Web Semantics etc., and are being actively engaged in R&D activities.

#### About the Department of Mathematics

Mathematics Department is one of the most active departments with faculty strength 20. The department was established in the year 1956, the year of establishment of the Institute. The department caters to the mathematical needs of the institute by offering courses for all the UG, PG and Research programs, in the field of Mathematics, Science and Humanities. The department holds research programs leading to Ph.D in Mathematical Sciences, Engineering Sciences and Applied Sciences.

#### About Coimbatore

Also known as Kovai, Coimbatore is the second largest city of Tamil Nadu state and one of the fastest growing cities in India. Situated at the foot hills of Nilgiris, it is known for its pleasant and salubrious climate, peaceful atmosphere, cosmopolitan outlook and private enterprises. Cotton textiles, electric motors, pumps, automobile spares, iron, steel and aluminum castings are the major exports from Coimbatore. With the ongoing TidalPark project and setting up of IT center by many multinational companies, this city is also fast emerging as an IT hub. Coimbatore is a center for higher learning with 6 Universities, about 35 Engineering colleges, 3 Medical colleges, and an Air Force Administrative College, a Forest College, a Law College and more than 75 Arts and Science Colleges. The city is well connected not only by road and rail but also by air.

