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## STAFF NEWS & UPDATES

*CSIR Centre for Mathematical Modelling and Computer Simulation (CSIR CMMACS) was set up in 1988 with the mandate to develop expertise, excellence and facilities for undertaking major mathematical modelling and simulation problems in identified areas primarily of relevance to CSIR. CSIR C-MMACS was repositioned in 2013 as CSIR-Fourth Paradigm Institute (CSIR-4PI) to provide the country a unique positioning in the domain of computational and data intensive research powered by high performance computing and informatics research. One of the smallest of CSIR laboratories, CSIR-4PI today is a young and vibrant institution of research.*

**Vision:** *To provide modeling, simulation and data intensive capability powered by high performance computing and informatics research.*

**Mission:** *Develop knowledge products in earth system and information sciences for societal good by exploiting modeling, simulation and data science capabilities.*

### **Objectives**

*To develop capability for addressing critical issues of scientific significance and social benefit*

*To enhance the scope and strength of mathematical modeling through development of new techniques/algorithms etc.*

*To train and develop high-quality man-power in the area of Mathematical Modeling and Computer Simulation*

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## CSIR-4PI Staff List

### Head

Vidyadhar Y Mudkavi

### Honorary Emeritus Scientist

Gaur V K

Yajnik K S

### Distinguished Scientist

Ehrlich Desa

Prakash V

### Scientist

Anil Earnest

Anilkumar V

Ashapura Marndi

Ashish

Chiranjeevi Vivek

Gouda K C

Gyanendranath Mohapatra

Himesh S

Indira N K

Kantha Rao Bhimala

Krishna Mohan T R

Parvez I A

Patra G K

Pavithra N.R

Rajendran K

Ramamohan T R

Rakesh V

Ramesh K V

Rameshan K

Sajani Surendran

Senthilkumar V

Sharada M K

Sridevi Jade

Swathi P S

Tejpal Singh

Thangavelu R P

Vijayan M S M

### Project Monitoring and Evaluation

Sharada M K (additional charge)

Suchanda Ray

### Technical Officer

Prabhu

Suchanda Ray

### Stores & Purchase

Nandeesh M J

Mary Suneetha William

### Administration

Anilkumar Angadi

Balakrishna K R

Raman P K

Sathyanarayana K

### Technical Staff

Chandrashekara Bhat

Dileep Kumar P

Sita S

Stella Margaret A

Veeresh

### DST Women Scientist

Chikka Kalyani Devasena

### Research Associate

Mohammad Mafooz

Prakash Barman

### SRF/JRF

Ajay Vijay Bankar

Arya V B

Jayasankar C B

Shafeer K B

Shaktidhar Nahak

Silpa K

Stella Jes Varghese

Sumana Sarkar

Sunil Kumar T C

### Project Assistants

Abhijith Nath

Abinaya Lakshmi B

Addala Koti Dharma Teja

Ajilesh P

Akash Choudhury

Alfred Johny

Amritha Babu

Anil Boddapati

Anusha Chilukuri

Athira U Nambeesan

Chinmaya Mohini

Ganesan P

Gourab Maiti

Jahanavi Meda

Lavanya S

Murthy D H R

Nagaraj Naik

Nalini Karna

Natesh S

Neethu C  
Nirmala J Nair  
Nunna Bala Ankaiah  
Parthasarathi Barik  
Payoshini Samantray  
Praveen S  
Rammes Raja Mir  
Sambit Kumar Panda  
Sanjeeb Kumar Sahoo  
Shelva Srinivasan  
Smruthishree Lenka  
Sofia Evelin

Sowjanya Rani V  
Sudeep Nesakumar  
Suganya R  
Sujatha Patnaik  
Sunil Babu  
Suribabu Donupudi  
Swathi Kokkiligadda  
Vishal Gupta S

**Graduate Trainee**  
Jayalakshmi D C

## **Awards/Honours/Recognition**

### **Rakesh V**

Received CSIR Young Scientist Award, June 2016, Earth, Atmosphere, Ocean and Planetary Science

### **Senthilkumar V**

Distinguished Alumni Award (DAA), June 2016, Excellence in Academic/Research, National Institute of Technology (NIT) Trichy, Tamilnadu

**CEMP Group**, Smart Drainage System using IOT, Best Paper Award, ICEGOV, 2017, Theme IoT and Smart City, Ministry of electronics & information technology, Govt. of India

**Anil Kumar V**, Sujata Patnaik and Chinmaya Mohini

Poster on Cyber Security Dynamics Inference: A Data Driven Approach, Best Poster Award, Digital India, Indian International Science Festival (IISF 2016).

### **Patra G K**

Poster on A Novel Approach Based on Neural Cryptography to Achieve Enhanced Data Security and Integrity Simultaneously, Second Best Poster, Digital India, Indian International Science Festival (IISF 2016).

**Amritha Babu, Azharuddin, Kalyani Devasena C, Sharada M K, Shelva Srinivasan M K, Sofia Evelin, Suganya R, and Swathi P S**

Modelling and simulation of marine ecosystem and evaluation with satellite data, Best Poster Award Impact of Aeronautical and Aerospace Programmes on Emerging India, CSIR Pensioners Welfare Association, 31 March -1 April 2017,

### **Dr. K C Gouda**

Chief guest in the "TARUNYA-2K16" technical conference meeting held at CIT College of Engineering, Abu Road, Rajasthan 19, April 2016.

Chief guest and Key note speaker in the "National Conference on "Research in Information Technology & Management", held at Global Institute of Management and Science, Bangalore, 31 May 2016

Included as honorary member of Program Assessment Committee, DayanandaSagar Inst. of Technology & Management, Kanakpura Bangalore at the 1st PAC meeting held on October 4, 2016.

Chief guest and Key note speaker in the Annual Award function and delivered talk on "Modelling, Simulation and the Data Intensive Research : The next step for IT-Students, BNM Institute of Technology, 22 Oct, 2016

Chief Guest in the Science exhibition and Annual Day celebration of St. Anselm's School, Abu Road (Rajasthan), 8th Feb 2017.

## **Services on External Committees/Membership of Professional Bodies**

### **Anil Earnest**

Member, American Geophysical Union (AGU)  
Member, Society of Exploration Geophysicists (SEG)  
Member, Society of Earth Scientists (SES), India  
Associate Member, International GNSS Service (IGS)  
Member, Asia Oceania Geosciences Society (AOGS)

### **Anil Kumar V**

Member, Internet Society (ISOC)  
Member, Cyber Security and IT Policy, Committee National Aerospace Laboratories, Bangalore  
Member, Program Committee, National Conference on Parallel Computing Technologies, PARCOMPTECH 2017  
Life member Computer Society of India  
Expert Member, Selection Committee C-DAC, Bangalore  
Expert Member Assessment Committee C-DAC, Bangalore  
Expert Member, M.Tech Thesis Evaluation Committee, Center for Cyber Security, Amrutha Vishwa Bidyapeetham, Coimbatore  
Nodal Officer, National Knowledge Network (NKN)

### **Himesh S**

Life Member, Indian Meteorological Society  
Life Member, IAEM  
Life Member, Institution of Engineers

### **Indira N K**

Member, Advisory Board, Dept. of Mathematics, Dayananda Sagar college of Engineering, Bangalore.  
Member, Board of Studies, Dayananda Sagar University, Bangalore  
Member, Working Group for Greenhouse Gases. Aerosol and greenhouse gas monitoring research, Ministry of Earth Sciences, Govt. of India.

### **Dr K C Gouda**

Executive member, Indian Meteorological Society, Bangalore  
Life Member, Indian Meteorological Society  
Member, MoES Committee for Long Range Forecast of Monsoon  
Member, Advisory Board, Dept. of CSE, DayanandaSagar college of Engineering, Bangalore.  
Member, Board of Studies, Dept. of MCA, DayanandaSagar University, Bangalore  
Member, Board of Studies, School of Computer Science, Jain University, Bangalore  
Member, M.Tech. Thesis Evaluation Committee, VTU, Belagavi.  
Member, Doctoral Committee, VTU, Belgavi  
Member, Doctoral Thesis Evaluation Committee, MAHARISHI MARKANDESHWAR UNIVERSITY, MULLANA-AMBALA.  
Member, Doctoral Committee, Jain University.  
National Advisory Committee Member, National Conference on Emerging Trends in Science and Engineering (NCETSE), ShriMadhwaVadiraja Institute of Technology and Management, Bantakal, 23-24 February 2017.

### **Parvez I A**

Coordinator, AcSIR, C-MMACS

PhD Examiner, Indian School of Mines, Dhanbad, Indian Institute of Technology, Kanpur.  
Member, Advisory Committee, Reviewing Committee of Scientific Projects at National Institute of Rock Mechanics (NIRM), Kolar  
Member, Hindi Technical Advisory Committee (HTAC) of NAL.  
Member, Technical Expert Committee of Karnataka State Natural Disaster Monitoring Centre (KSNDMC), Department of Science and Technology, Government of Karnataka.  
Life Member: Indian Society of Earthquake Technology  
Life Member: Indian Society of Earthquake Science

#### **Patra G K**

Life Member, Computer Society of India  
Life Member, Indian Meteorological Society  
Life Member, Cryptology Research Society of India  
Life Member, Orissa Information Technology Society  
Life Member, Advanced Computing and Communication Society  
Life Member, International Association of Engineers  
Member CSIR SRF/RA selection committee, CSIR HRDG, New Delhi  
Adjunct faculty, Department of computer Science, Amrita School of Engineering, Bangalore  
Member, Advisory Board of School of Computer Science and Engineering, VIT  
Member, Board of Studies, Mathematics Department of Mount Carmel College, Bangalore  
AcSIR Senate sub-committee for reinstatement of academic program of CSIR-NISCAIR  
Coordinator, AcSIR CSIR-4PI

#### **Prabhu N**

Technical Committee member, National Centre for Disease Informatics and Research (NCDIR), Bangalore

#### **Rajendran K**

Executive Council Member, Indian Meteorological Society  
Associate Editor, Journal of Earth System Sciences, Indian Academy of Science  
Member, Working Group on Climate Change, Kerala State Planning Commission, Govt. of Kerala  
Member, Board of Studies in Atmospheric Sciences, Cochin University of Science & Technology, Cochin, Kerala.  
Member, Scientific and Academic Council, Institute for Climate Change Studies, Department of Environment, Govt. of Kerala.

#### **Rakesh V**

Life Member, Indian Meteorological Society  
Joint secretary, Indian Meteorological Society Bangalore Chapter

#### **Sajani Surendran**

Life Member, Indian Meteorological Society  
Member, Working Group III, National Carbonaceous Aerosol Project, Ministry of Environment and Forests

#### **Senthilkumar V**

Scientific Advisory Committee, Computational Science Symposium (CSS 2017), Department of Computational Data Sciences, Indian Institute of Science (IISc), Bangalore, 16-18 March 2017  
Advisory Board, Five Day Short Term Training Program on Additive Manufacturing (25th - 29th April 2016), Department of Mechanical Engineering, Marwadi Education Foundation's Group of Institutions, Rajkot  
Editorial Board Member, Journal of Modelling and Simulation in Design and Manufacturing (JMSDM)  
Life Member, Indian Association for Computational Mechanics (IndACM)  
Life Member, Indian Society for Advancement of materials and Processing Engineering (ISAMPE)  
Member, International Association of Engineers  
Member, IAENG Society of Industrial Engineering  
Member, IAENG Society of Mechanical Engineering

**Sridevi Jade**

Life Member, Indian Geotechnical Society  
Life member, Indian Geological Congress  
Member, Indian Science Congress  
Member, International Society of Soil Mechanics and Foundation Engineering  
Founder Life Member, Indian Society of rock mechanics and tunneling technology  
Associate Member, International GNSS Service (IGS)  
Expert member, Technical Advisory Committee, Government of Karnataka  
Member, Information Sciences cluster 12<sup>th</sup> FYP Work Group/Task Force

**R P Thangavelu**

Life Member, Computer Society of India  
Life Member, Cryptology Research Society of India  
Member, Executive Committee, Karnataka State Natural Disaster Monitoring Centre  
Member, Cloud Computing Innovation Council of India  
Member, Expert Group on Infrastructure, National Supercomputing Mission  
Member, Recruitment Committee for Scientists, National Institute of Wind Energy  
Member, Technical Expert Committee for procurement of Petascale Supercomputers, Ministry of Earth Sciences, GoI  
Member, Technical Expert Committee for procurement of HPC cluster, Aeronautical Development Agency  
Member, Data Center Implementation Monitoring Committee, TUE-CMS, SSCU, Indian Institute of Science  
Chairman, Technical Committee for Firewall and Server Augmentations, National Institute of Wind Energy  
Member, Cyber Security and IT Policy Committee, CSIR National Aerospace Laboratories

**Vidyadhar Mudkavi**

Member, Executive Board, National Supercomputing Mission (NSM).  
Chairman, Technical Evaluation Committee (TEC), Cloud Aerosol Interaction and Precipitation Enhancement Experiment (CAIPEEX), Indian Institute of Tropical Meteorology (IITM), Pune.  
Chairman, Technical Advisory Committee (TAC), UAV Development for Atmospheric Measurements, IITM Pune.  
Co-Chairman, Interdisciplinary Committee for Tejas Wake Clearance, Aeronautical Development Agency (ADA), Bengaluru.  
Secretary, Trust for Advancement of Aerodynamics in India (TAAI), Bengaluru.  
Member, National Advisory Committee, CAIPEEX, IITM, Pune.  
Member, Technical Advisory Panel (TAP) for various departments of Government of Karnataka.  
Member, Expert Committee, eVidhana, Government of Karnataka  
Life member, Aeronautical Society of India (AeSI)  
Member, Indian Academy for Mathematical Modeling and Simulation (IAMMS)  
Member, Computer Society of India  
Fellow, The Institution of Engineers (India)

**Vijayan M S M**

Member, American Geophysical Union (AGU)  
Member, International GNSS Service (IGS)

## **Deputations**

### **N K Indira**

ESRL, NOAA, Boulder, USA and worked with scientists in Global Monitoring Division, November 10 to December 16, 2016

### **V Anil Kumar**

Argentina for participation in 95th Internet Engineering Task Force (IETF) Meeting at Buenos Aires, 2-8 April 2016

### **Dr K C Gouda**

P Samantray: To participate and present paper in the WMO/CLIVAR Open Science Conference, Qingdao, China during 18-25 September 2016

Sanjeeb K Sahoo, To participate and present paper in the WMO/CLIVAR Open Science Conference, Qingdao, China during 18-25 September 2016

Partha S Barik and K C Gouda, To participate and present paper in the 10th International Wetlands Conference, Changshu, China, 19-24 September 2016