Prof. Dr. Rao Tatavarti, M.S. (IIT Madras), PhD (Dalhousie University, Canada)

Senior Professor and Director (Engineering Research & Consultancy)

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PROFILE

2013 – To date National Maritime Foundation, India

Regional Director NMF, Vizag Chapter – A Think Tank for Advancing India's Maritime Interests.

2010 – To date GVP / CASTLE

Director and Senior Professor

Executive Director

Visiting Professor

GVP-SIRC and GVP College of Engineering, Visakhapatnam, India

CASTLE, Visakhapatnam – A Non Profit Scientific Society and Think Tank.

U of H – Central University of Hyderabad

Director Srujana Dukeship Consulting – An Innovation Incubation Company
Technical Advisor Hindustan University, Chennai; The Sun School, Vizianagaram

Editorial Board ICTACT Journal on Image and Video Processing

Currently working on Design and Development of cutting-edge technologies with Aerospace and Oceanic applications in Defence/Civilian Sectors.

2008 - 2010

Member, Board of Management

Director (R&D)

Dean, Academic Research

VIT University, Vellore, India

Steered R&D activities and was responsible for increasing the R&D productivity at VIT University. Instrumental in streamlining the research policies and practices of VIT University. Facilitated award of 54 PhD and 25 M.S. by Research degrees.

1989 - 2008 Naval Physical & Oceanographic Laboratory (NPOL), DRDO, Kochi, India

Senior Scientist and Additional Director Head, Centre for Oceanics and Optronics Non-Acoustic Technology Programs Director

Significant contributions to the fields of ocean science, engineering and technology through development of new algorithms, novel monitoring techniques and innovative design and development of highly sensitive optoelectronic systems for studying the dynamics of stratified fluids as well as for use in naval surveillance activities. Design and Development of novel techniques and technologies to monitor ocean dynamics and surresponsible for utilization of the state-of-art satellite technology for surveillance activities - by developing satellite image processing algorithms which can comprehensively extract spatial feature information from any of the available satellite sensors covering the region of interest.

1984 - 1989 Dalhousie University, Halifax, Canada

Researcher and Teaching Assistant

Involved in R&D and Teaching Activities pertaining to Coastal and Ocean Processes at Dalhousie.

1981 - 1984 Indian Institute of Technology, Madras, Chennai, India

Researcher and Senior Project Officer

Involved in R &D and Consultancy Activities in Ocean Engineering

Professional Experience

30 + years R&D experience at various institutes in India, Asia, North America, Europe and Russia.

Research Projects and Technical Consultancy

Headed and completed research and consultancy projects with a total financial outlay of more than Rs.500 million in India and North America related to Ocean Industry, Power, Oil and Natural Gas, Ports and Harbors, Defence and Telecom.

Research Interests

Ocean Engineering and Technology, Signal Processing, Fluid Dynamics, Photonics, Image Processing, Satellite Image Processing, Biomedical Engineering and Bio-Technology

Research Supervision

36 Masters in Engineering, Technology and Science 3 PhDs Many DRDO / DST / DOS / Defence Projects

Teaching Experience

Dalhousie University, Canada; Cochin University of Science and Technology, Kochi; VIT University, Vellore, GVP College of Engineering, Visakhapatnam; Central University of Hyderabad, Hyderabad.

Publications / Patents

135 Peer Reviewed Research and Classified Publications 2 Monographs 7 Patents

Awards

Most Active Researcher Awards, GVPCE (2012, 2011), VIT University (2010, 2009), DRDO Laboratory Award (2007), DRDO Silicon Medal (2006), DRDO Advances in Naval Technology Award (1997)

Fellowships

Berkner Fellow, American Geophysical Union, USA (1990–1994); Dalhousie Senior Fellow, Canada (1988–1989); International Center for Ocean Development (ICOD) Fellow, Canada (1985–1987); Dalhousie Fellow, Canada (1984–1987); Hayes' International Scholar Canada (1984–1985); Institute Fellowship, IIT Madras (1981–1983); CSIR Fellowship (1980–1981).

Membership of Professional Bodies

Life Member of Scientific and Engineering Professional Bodies in India, Asia and North America; and the Founding Member of Ocean Society of India, OSI; Founder, CASTLE.