

Brief C V of Dr Pradeep K Srivastava

A B O U T

Dr. Pradeep K Srivastava is a senior expert in the domain of Remote Sensing from far and near. He did his integrated Master in Physico-Mathematical Sciences in Applied Mathematics (1979) and PhD in Theoretical Mechanics and Control Systems (1983) from Peoples' Friendship University, Moscow. He has spend more than thirty years in the service of Indian Space Research Organization in different capacities. During his tenure in ISRO, he was responsible for design, development and realization of algorithms and software for processing of Space borne Earth and Planetary observation, Meteorological, Oceanographical data acquired by Indian Space missions. One of his contributions has resulted in the Processing of Cartosat-1 stereo imagery to produce CartoDEM, a high resolution Earth's surface model from ISRO. Dr. Srivastava has made major contributions in theory and practice of Satellite Photogrammetry as a discipline. He has published more than 60 papers and reports on the subject. Dr Srivastava was deputed to Geospatial Delhi Ltd, a Govt. of NCT of Delhi during 2011-2013 as Managing Director. At GSDL, Dr Srivastava defined and developed many applications of very high resolution spatial data from DSSDI project for State government. Since retiring from ISRO in 2014 as Outstanding Scientist he has been active as Advisor in Karnataka State Remote Sensing Centre, Department of Information Technology, GoK. He has contributed in establishing Karnataka-GIS, a flagship project of Govt. of Karnataka for institutionalizing the use of Geospatial in governance, as its Chief Technical Officer. He pursues his academic and research interests as Adjunct Professor, IIT Gandhinagar and Visiting Professor at CEPT University, Ahmedabad. Dr Srivastava has given courses on 'Satellite Photogrammetry', Terrain Modeling and Analysis' and 'Terrain modeling using data from Unmanned Aerial Vehicles' at IIT Gandhinagar. and 'Thinking Spatially' at CEPT University, Ahmedabad.

His current research interests include

- Physical and Mathematical Modeling of Imaging Processes,
- Modeling of Sensor Geometry and Satellite Photogrammetry
- Near and Far Remote Sensing
- Spatial Data Infrastructures
- Geospatial technologies in Governance

SELECTED PUBLICATIONS

1. Exploring the Moon in 3 dimensions, Coordinates, April 2009, pp 06-10, ISSN 09732-2136
2. Planetary Data System for Chandrayaan-1 mission and ISRO Science Data archives, GEOMATICS 2010, Feb. 4-6, 2010,
3. Reconstruction of Quadratic curves in 3D Space from real images, Proceedings of "1st International Conference on Computer, Communication, Control and Information Technology (C3IT2009)", pp 255-263, 6-7 Feb. 2009, Hoogly,
4. Advanced Studies in Strip Pair processing of Cartosat data by Pradeep K. Srivastava ,T. P. Srinivasan , Amit Gupta , Sanjay Singh , Jagjeet Singh Nain , Amitabh, Shilpa Prakash, B. Kartikeyan, B. Gopala Krishna, The Photogrammetric Record 23(123): Pages 290-304 (September 2008)
5. Rational Polynomial Modeling for Cartosat-1 data by Sanjay K. Singh, S. Devakanth Naidu, T. P. Srinivasan, B. Gopala Krishna & P. K. Srivastava, Proceedings of ISPRS Beijing Congress 2008.
6. Long strip modeling for Cartosat-1 with minimum control by Amit Gupta, Jagjeet Singh Nain, Sanjay K Singh, T P Srinivasan ,B Gopala Krishna, and P K Srivastava, Proceedings of ISPRS Beijing Congress 2008.
7. CARTODEM – A National DEM from CARTOSAT-1 Stereo, B Gopala Krishna, P K Srivastava, Amit Gupta and B Kartikeyan, NNRMS Bulletin 2006.
8. 'Satellite for mapping : Requirements' Analysis, Sensor Specifications, Data Processing', Report of INCA study group on 'Satellite for mapping' pages

103, November 1994. Publication of Indian National Cartographic Association.

TEACHING

1. At IIT, Gandhinagar, 2014-15 and 2015-16 as Adjunct Professor in Earth Sciences. Read two 4 credit Elective courses for M Tech and PhD students on ‘Satellite Photogrammetry’ and ‘Terrain Modeling and Analysis’.
2. At CEPT University, Ahmedabad, 2015-16 as Visiting Professor in Geomatics . Read 4 credit Elective course, common across disciplines and levels on ‘Thinking Spatially’.

HONORS, AWARDS ETC

1. President, Indian National Cartographic Association, 2007-2008
2. Chairman, Indian Meteorological Society, Ahmedabad Chapter, 2009-2011,
3. Member, Editorial Board, Indian Society of Remote Sensing Journal of Remote Sensing, 2008 –10
4. Chairman, International Society of Photogrammetry and Remote Sensing Working Group IV/3 on ‘Mapping from High Resolution Imagery’, 2008-2012
5. National Geomatics Award 2009 for Technology by Indian Society of Geomatics,
6. Member of ISRO Team excellence award 2007 for successful Cartosat-2 mission,
7. Leader of ISRO Team excellence award 2008 for developing CartoDEM, a National Elevation Model based on Cartosat-1 mission,

- 8.** Member of ISRO Team excellence award 2009 for development of ISRO Meteorological Data Products System,

 - 9.** GeoSpatial Excellence award 2010 of Indian Society of Remote Sensing

 - 10.** Four (4) copyrights awarded for software packages for Stereo data processing and Satellite Photogrammetry,
-