

Dr. A. D. PRASAD

Education:

Degree	Specialisation	University	Division
Ph.D	Civil Engineering (Geomatics Engineering)	Indian Institute of Technology Roorkee, India	-
M.Tech	Industrial Pollution Control	National Institute of Technology Karnataka, India	First
B.E	Civil Engineering	Andhra University, India	First

Technical skills:

Programming Languages:	C, C++, Visual Basic 6.0, C#, VB.NET, Arc Objects, Map Objects,
Database/Tools:	MySQL, SQL Server 2008.
Operating Systems:	Windows 98/2000/NT/7/8.1/10, MS-DOS, Linux, Android.
GIS Desktop	AutoCAD 3D Civil / Map, Trans CAD, Hydro CAD, Bentley - Micro station, In RAIL, In ROAD, ArcGIS10.7, Quantum GIS, Grass, ArcGIS Explorer, ILWIS, Surfer, HEC-RAS/HMS, WMS, Basins, GIS (R2V), etc..
Remote Sensing:	PCI Geomatica 2014, ENVI 5.5, Erdas Imagine 2014, IDRISI,
ERP/ Business Analytics and Business Intelligence Software:	SAP R/3 4.7/6.0 SAP-BW (3.0B), BI (7.0), SAP-SEM (3.1B), (6.0), SAP PP, SAP-APO, SAP-Retail, SAP-SEM includes BPS, CPM, BCS, BIC, SRM, SAP- EH&S, SAS 4.0
Project control software:	Primavera P6, Microsoft Project
Other Software's:	STAAD, 3D-Doctor, MATLAB, NI LabVIEW, MS-Office etc...

Experience in Industries/Research Organizations/Post-Doc (in Yrs):

- ✓ **Software / IT Industry - 8.5 Years**

Post Ph.D. Experience:

- ✓ **NIT-Raipur – Since Jun-15**
- ✓ **NIT-Jalandhar – Sep-14 to May-15**

Research Interests:

- **Geomatics Engineering**
- **Energy / Renewable Energy**
- **RS & GIS Applications**
- **Water Resources Engineering**
- **Environmental Engineering**
- **Image Processing / Medical Image Processing**

Memberships / Certificates:

- **Indian Society of Remote Sensing (ISRS)** – Life Member
- **The Institution of Engineers (India) (IEI)** – Member
- **The Institution of Engineers (India) (IEI)** – Chartered Engineer
- **Indian Society of Geomatics (ISG)** – Life Member
- **Indian Geotechnical Society (IGS)** – Life Member
- **Trainers Training Programme on Entrepreneurship** – EDII Certificate

Short Term Courses Attended:

- ✓ “Technical Paper Writing”, Organized by The Institute of Engineers, Roorkee, India, May 14-15, 2010.
- ✓ ECBC Training program on “Energy Conservation in Buildings”, Organised by CREDA – Raipur, India, Oct 13-14, 2015.
- ✓ UNESCO Regional Capacity Development Workshop on Ensuring Water Security in Changing Environment scenario, IIT-Bombay, Nov 26-27, 2015.

Organising Conference / Workshop / Short Term Courses:

- ✓ “Uttarakhand State Science & Technology Congress – 2012” as Technical Session Head, Dehradun, Nov 21-23, 2012.
- ✓ “National Workshop on Water Resources in Developing Countries: Planning and Management” as Coordinator, National Institute of Technology, Raipur, Aug 27-28, 2015.

Distinctions:

- ✓ Received MHRD fellowship during studies.
- ✓ Worked at a capacity of competency head of a multinational organization **with an award** of “**best and brightest**” among all employees around the world.
- ✓ Reviewer for SCI journals of **Elsevier**, **Springer** and **Inderscience** publishers.
- ✓ Editorial Board member of Journal on Computational Imaging and Multimedia Networks
- ✓ Has experience in Software / IT industry with abroad work experience in USA, UK, UAE, Saudi Arabia, Malaysia, Qatar and South Africa.

Books Published

1. KVSG Murali Krishna, A D Prasad (2019), "RECYCLE AND REUSE OF MUNICIPAL AND INDUSTRIAL WASTEWATER", PARAMOUNT PUBLISHING HOUSE, ISBN: 978-93-88808- 48-4

International Journal papers: -

1. Vinit Lambey, A. D. Prasad (2021), "A Review on Air Quality Measurement Using an Unmanned Aerial Vehicle", Water Air Soil Pollut 232, 109.
2. P. Ganasala and A. D. Prasad (2020), "Contrast Enhanced Multi Sensor Image Fusion Based on Guided Image Filter and NSST," IEEE Sensors Journal, vol. 20, no. 2, pp. 939-946.
3. Ganasala, P, Prasad, AD (2019), "Medical image fusion based on laws of texture energy measures in stationary wavelet transform domain", Int J Imaging Syst Technol.
4. A. D. Prasad (2016), 'Scope of Integrated Farming Systems with Organic Agriculture and Geomatics Techniques in India' IJEE, Vol 6-N0-1, pp. 41-43
5. Padma Ganasala, Vinod Kumar, and A. D. Prasad (2016), 'Performance Evaluation of Color Models in the Fusion of Functional and Anatomical Images', J Med Syst 40: 122
6. Fathian, F., Prasad, A.D., Dehghan, Z. and Eslamian, S. (2015) 'Influence of land use/land cover change on land surface temperature using RS and GIS techniques', Int. J. Hydrology Science and Technology, Vol. 5, No. 3, pp.195–207
7. A. D. Prasad, Jain K, Gairola A and R. Hernandez-Guzman (2013), Ranking of Pumped storage hydropower site for preliminary studies, IJEE, Vol 6-N0-1, pp. 136-142
8. A. D. Prasad, Jain K and Gairola A (2013), Surface Temperature Estimation using Landsat Data for part of the Godavari and Tapi Basins, India: A Case Study, IJEAT, Volume-2, Issue-3, pp. 320-322
9. A. D. Prasad, Jain K and Gairola A (2013), Mapping of lineaments and knowledge base preparation using geomatics techniques for part of the Godavari and Tapi Basins, India: A case study; IJCA, Volume 70– No.9, pp. 39-47
10. A. D. Prasad, Jain K and Gairola A (2013), Pumped Storage Hydropower Plants Environmental Impacts using Geomatics Techniques: An Overview , International Journal of Computer Applications 81(14), pp. 41-48
11. A. D. Prasad, Jain K and Gairola (2012), A GIS for rural health in India, IJEE, Vol 5-N0 5(2), pp. 1432- 1437.

International Conference papers: -

1. Verma S., Prasad A.D., Verma M.K. (2021) Trend Analysis and Rainfall Variability of Monthly Rainfall in Sheonath River Basin, Chhattisgarh. In: Pathak K.K., Bandara J.M.S.J., Agrawal R. (eds) Recent Trends in Civil Engineering. Lecture Notes in Civil Engineering, vol 77. Springer, Singapore. https://doi.org/10.1007/978-981-15-5195-6_58.
2. A. D. Prasad and P. Ganasala, "Preliminary Assessment of Remote Sensing Satellite Data and Spectral Indices for Sustainable Development of a Smart City," 2020 International Conference on Advances in Computing, Communication & Materials (ICACCM), Dehradun, India, 2020, pp. 212-214, doi: 10.1109/ICACCM50413.2020.9212894.
3. B. P. Kumar and A. D. Prasad, "IoT based equipment for real-time identification of soil properties," 2020 7th International Conference on Smart Structures and Systems (ICSSS), Chennai, India, 2020, pp. 1-6, doi: 10.1109/ICSSS49621.2020.9202279.
4. P. Ganasala and A. D. Prasad (2020), "Functional and Anatomical Image Fusion based on Texture Energy Measures in NSST Domain," 2020 First International Conference on Power, Control and Computing Technologies (ICPC2T), Raipur, India, 2020, pp. 417-420.
5. Vasanth D., Prasad A.D. (2019) Ceramic Membrane: Synthesis and Application for Wastewater Treatment—A Review. In: Rathinasamy M., Chandramouli S., Phanindra K., Mahesh U. (eds) Water Resources and Environmental Engineering II. Springer, Singapore
6. Lambey, V. and Prasad, A. D.: UNMANNED AERIAL VEHICLE APPLICATIONS OF 3D MODELLING, VISUALIZATION AND PARAMETER CALCULATIONS, Int. Arch. Photogramm. Remote Sens. Spatial Inf. Sci., XLII-5, 649-652, <https://doi.org/10.5194/isprs-archives-XLII-5-649-652>.
7. Sahu, I. and Prasad, A. D (2018): ASSESSMENT OF HYDRO POTENTIAL USING INTEGRATED TOOL IN QGIS, ISPRS Ann. Photogramm. Remote Sens. Spatial Inf. Sci., IV-5, 115-119.
8. Lambey V., Prasad A.D., Chouksey A., Sahu I. (2019) Impact of Water Conservation Structures on Hydrology of a Watershed for Rural Development. In: Rao P., Rao K.,

Kubo S. (eds) Proceedings of International Conference on Remote Sensing for Disaster Management.

9. Akhilesh Poyam, A D Prasad (2019). "Water Quality Monitoring Using Unmanned Air Vehicle (UAV) And Internet of things (IoT)". In 2019 National Conference on Innovation in Chemistry and Environmental Engineering (ICEE).
10. A.D.Prasad, Padma Ganasala (2017), Feasibility of solar photovoltaic system: A case study, ICEEE , International Conference on Energy,Environment and Economics (ICEEE 2017), 11th-13th December 2017, Heriot-Watt University, Edinburgh, UK
11. Padma Ganasala and A. D. Prasad (2018), 'Medical Image Fusion based on Frei-Chen Masks in NSST Domain, IEEE, 619: 623, 5th International Conference on Signal Processing and Integrated Networks (SPIN), India
12. A D Prasad, Scope of Integrated Farming Systems with Organic Agriculture and Geomatics Techniques in India, 4th World Conference on Applied Sciences, Engineering &Technology, 24-26 October 2015, Kumamoto University, Japan
13. A D Prasad, Jain K and Gairola A, A review on hydropower, storage systems and site selection in the watershed as a part of natural resource management using geomatics techniques , NIRD,Hyderabad– Jan 2012.