

## *Curriculum Vitae*

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### **M.B.Rajani**

Permanent Address                    305-A, Sangeetha Apartments, 5<sup>th</sup> Cross  
Malleswaram, Bangalore 560 003  
Tel: + 91 (0)80 42073049, Mob: (0)9343835535  
Email: rajaniphd@gmail.com

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### **Work/research experience**

- Mar 2014 onward                    **Involvement in activities of Centre of Archaeological Sciences, IIT Gn**  
1. Conducted a 1 day workshop 'Applications of remote sensing to archaeology' on Mar 15<sup>th</sup> 2014. Participants included students of archaeology from in and around Ahmedabad and also students from IITGn.  
2. Phase-1 or in other words preliminary analyzing of the project 'Remote sensing and GIS analysis of Dholavira' May- July 2014. The outcomes of this analysis was presented in a workshop on Aug 5<sup>th</sup> 2014.
- Jun 2013 – Mar 2014                **Fellow, Nalanda University**  
Research project title 'A study of Nalanda using GIS and remote sensing'
- Nov 2011 – May 2013                **Assistant Professor**  
NIIT University (NU), Neemrana, Rajasthan, India
- Nov 2010 – Oct 2011                **Post Doctoral Associate**  
National Institute of Advanced Studies, Bangalore, India
- Jan 2005 – Jun 2010                **Research Scholar – Ph.D. Student**  
National Institute of Advanced Studies, Bangalore, India  
Conducted research towards PhD in the field of remote sensing and GIS applications to archaeology at NIAS under the guidance of Dr. K.Kasturirangan

### **Education**

- 2011                                        **Ph.D., University of Mysore, Karnataka, India**  
Thesis title 'Space based archaeological investigations' submitted on June 28, 2010; PhD degree awarded in April 2011.
- 2002 – 2003                                **MA, Surrey Institute of Art and Design: University College, Farnham, Surrey – GU9 7DS, UK**

This was a MA programme based on self-managed research designed to produce a series of essays over three semesters. At the end of the course I had to write an extended dissertation. My specialization was in East India Company paintings (eighteenth and nineteenth centuries), textile designs and trade of that period and their comparison with other contemporary paintings and changes in the present styles. Mark for dissertation 72%.

**Others courses**

- |             |  |
|-------------|--|
| 2002 – 2003 | Art and Archaeology of the Indian Sub-Continent (66%)<br>Bharatiya Vidya Bhavan, UK Centre, London             |
| 2001 – 2004 | Passed five-year Certificate course in Karnatic music theory in first class,<br>Bharatiya Vidya Bhavan, London |

**Awards:**

1. Rachapudi Kamakshi Memorial Gold Medal for Young Geospatial Scientist 2011.
2. Won award for best presentation for Students Session at the Indian Society of Remote Sensing (ISRS) Symposium Dec 18-20 2008, Nirma University, Ahmedabad.
3. Won award for third best presentation Students Session at the Indian Society for Geomatics (ISG) national conference Feb 4-6 2009, Forestry Research Institute (FRI), Dehradun.

**Professional activities at Nalanda University**

- Research progress colloquiums in Nalanda University Delhi office, K.K.Birla Road:
  - A study of Nalanda Using GIS and Remote Sensing, , July 4<sup>th</sup> 2013
  - Further investigations of Nalanda using GIS and remote sensing, Oct 10<sup>th</sup> 2013
- Participated in discussions between Nalanda University and Archaeological Survey of India towards preparing Dossier for applying for UNESCO World Heritage Status for Nalanda site. Assisted in organising a workshop (Nov 11-12 2013) for this discussion and also made a presentation about outcomes of research on remote sensing and GIS analysis of Nalanda.

**Professional activities at NIIT University (NU); Nov 2011 to May 2013**

- Member of curriculum development committee for M.Tech GIS programme
- Teaching and course related:
  - Building course structure
  - Developing content, material, assignments and evaluation methods
  - Delivering, administering and managing the following courses

|   | Course title                        | Credits | Semester | Course type | Year                            |
|---|-------------------------------------|---------|----------|-------------|---------------------------------|
| 1 | Remote sensing and image processing | 4       | 1        | Core        | April-July 2012<br>Aug-Dec 2012 |
| 2 | Cartography and visualization       | 2       | 1        | Core        | April-July 2012<br>Aug-Dec 2012 |

|   |  |   |   |                       |              |
|---|--|---|---|-----------------------|--------------|
| 3 | Advanced remote sensing and photogrammetry | 4 | 2 | Core                  | Jan-May 2013 |
| 4 | GIS for humanities and social sciences     | 3 | 2 | Professional elective | Jan-May 2013 |

- Participated in fund raising for research projects
- Provided GIS support to NU authorities which helped in the negotiations with Rajasthan government in the conversion of 600 acres of land around NU from revenue to forest.
- Admissions: Participated in outreach activities for publicity of the M.Tech programme, and was involved in interview and selection of candidates
- Involved in conducting interviews and selection of candidates for B.Tech and MBA programmes

### **Professional activities as NIAS (2005-11)**

#### **A. Fund raising for research projects:**

1. Research in the field of remote sensing archaeology would involve acquisition of space imagery over archaeological sites of interest and setting up of an image analysis facility for interpreting the satellite data. Accordingly a proposal, title '**Archaeological investigations using remote sensing techniques**' was submitted to ISRO requesting financial support for setting up a Remote Sensing lab at NIAS. I was involved in putting together this proposal. This proposal was approved (under **ISRO RESPOND project**) at the end of 2006 sanctioning Rs 23.5 lakhs for three years with Prof B.V.Sreekantan as the PI and me as research scholar. A committee was set up consisting members from ISRO and NIAS with myself as the coordinator to analyze the lab requirements, invite vendors for demonstration, finalize the configuration, order and procure required equipments and softwares. By the end of 2007 the lab was fully set up and functioning and also started to produce results. This lab has been useful for my own research and also other scholars at NIAS have used it. The project itself was completed in said duration and has produced many research papers.
2. Based on the experience of the above mentioned project Space Applications Centre, ISRO, invited NIAS for collaboration in another project title '**Subsurface Imaging by RISAT-SAR and its Geo-archaeological Applications**' and sanctioned Rs 10.8 lakhs for a duration of 3 years. The project started in Oct 2010 with Prof B.V.Sreekantan as PI. This project was for analyzing data of RISAT-1 satellite for archaeological purposes. I was the lead researcher till I left NIAS in Oct 2011, after which I have been collaborating with Ms Nalini on a regular basis on this projects activities.
3. To continue activities in the field and association with ISRO, another proposal was made to ISRO under RESPOND scheme; title '**Implications of Satellite Imagery on Cultural Heritage Resource Management**'. I was involved in putting together and presenting this proposal. ISRO sanctioned Rs 20 Lakhs for a duration of 3 years starting from March 2011 with Prof.S.Ranganathan as PI. I was involved in research activities for this project till Dec 2011.

#### **B. Organizing and coordinating summer workshop on GIS for high school children:**

A summer workshop 'How to Map what's around you!' was conducted for high school children on map making at NIAS, Bangalore. The goal of this workshop was to bring children to the context of a research institute and guide them through small research projects to provide authentic learning and research experience. The workshop aimed at enhancing children's cartographic skills and make them aware of the potential of their everyday familiar locality and natural environment for map making. Children tracked a total of 200 trees comprising of 38 different types on NIAS campus. Children also tracked the various energy sources of the campus that also gave them knowledge about its measure of usage. Through the process of making maps children develop a relationship with the space around

them, thus learn to care about their local environment. The workshop was held during summer vacation, from 19<sup>th</sup> of April to 12<sup>th</sup> of May-2011 and was carried out by researchers from the areas of remote sensing, GIS and education. Course coordination and teaching was jointly done by Rajani and Anu Joy (PhD student at NIAS working on science education in schools).

**C. Guiding/teaching experience:**

1. Course offered for PhD students at NIAS (July-Dec semester 2009), title: *Introductory course in mapping and GIS*. The course focused on cartography and maps which will include brief historical development of map making; geodesy: understanding important terms and concepts that govern mapping (such as projection, datum, ellipsoid, etc); map reading; GPS: technology and applications, practical demonstration and exercises in using GPS and applying the information to generate maps; Brief introduction to use of remote sensing (satellite imagery) for mapping; Introduction to GIS software, digitizing geospatial information, handling multi layer geospatial data, generating maps using GIS software.
2. Asha K.G. is a PhD student at NIAS working on a research paper on Geo-spatial nature of depleting child sex ratio (CSR) analyzing census data of last three decades. Rajani guided (Jul-Sept 2011) her in organizing her data in GIS.
3. Sreeja K.G. is a PhD student at NIAS conducting research on 'Emergent non-agrarian livelihoods and their linkages to natural resources in the various agroecosystems of a river basin in central Kerala' where she has examined occupational profile at National, State, District levels and also Panchayat and river basin levels for her study area. Rajani guided (June-Sept 2011) her in organizing her data in GIS and also use of remote sensing.
4. Mtech project of Mrs J.N.Nalini on remote sensing and 3D GIS for heritage management. Case study on the site Chitradurga (2009).
5. Summer holiday project of Mr Ashvij Narayanan on tracing around 120 archaeological sites with the help of google earth and other websites to find out and list their locations (lat/long), some historical background and identifiably on imagery. This was undertaken as a preparatory ground work activity on request of Dr R R Navalgund, Director Space application Centre, Ahmedabad. On a later date ISRO may use this report as a base for producing an atlas of archaeological sites using Indian remote sensing data (April-May 2009).

**D. Public Lectures at NIAS:**

1. Seven Pagodas of Mahabalipuram (5 November 2008)
2. Some thoughts on western classical and later geographers' perspective of India (29 March 2006)
3. Usage of Remote Sensing for Archaeology (2 September 2005)
4. Bangalore from above: an archaeological overview (29 March 2005)
5. Student colloquia: 16 March 2007, 11 March 2008, 26 December 2008, 24 December 2009.
6. Prethesis Colloquium: 20 December 2009
7. Open Viva Voce (PhD thesis): March 19<sup>th</sup> 2011

**E. Coordination activities**

1. Organizing Committee member for 'International Conference on the Tangible and Intangible Heritage of Tangible and Intangible Heritage of Hampi' – Jan 16 to 18, 2009
2. Organizing Committee member for the Seventh International Conference on the 'Beginning of the Use of Metals and Alloys' (BUMA) – September 13<sup>th</sup> and 17<sup>th</sup> 2009.
3. Assistant coordinator for Senior Executive course in the years 2007
4. Assistant coordinator for Senior Executive course in the years 2008
5. Coordinator for "Workshop on remote sensing applications to archaeology" July 5, 2005

## **Publications**

### **A. Articles published in peer-reviewed journals:**

1. M.B.Rajani, and K.Kasturirangan, 'Multispectral remote sensing data analysis and application for detecting moats around medieval settlements in South India' *Journal of the Indian Society of Remote Sensing*, Springer, Published online 03 January 2014, DOI: 10.1007/s12524-013-0346-4
2. N. S. Nalini and M. B. Rajani, 'Stone fortress of Chitlédroog: visualizing old landscape of Chitradurga by integrating spatial information from multiple sources' *CURRENT SCIENCE*, VOL. 103, NO. 4, 25 AUGUST 2012, pp.381-387.
3. Asha Kuzhiparambil & Mandyam B. Rajani (2012): EPICENTRES OF MISSING DAUGHTERS, *Asian Population Studies*, DOI:10.1080/17441730.2012.714668. Published online 06 Aug 2012.
4. M.B.Rajani, and K.Kasturirangan, 'Sea-Level changes and its impact on coastal Archaeological monuments: Seven Pagodas of Mahabalipuram', *Journal of the Indian Society of Remote Sensing*, Springer, Published online 17 April 2012, DOI: DOI 10.1007/s12524-012-0210-y
5. M.B.Rajani , A.S.Rajawat , M.S. Krishna Murthy , J. Kamini and Srinivas Rao, 'Demonstration of the synergy between multi-sensor satellite data, GIS and ground truth to explore the archaeological site in Talakadu region in South India', *Journal of Geomatics*, Indian Society of Geomatics, Vol 6 No.1 April 2012
6. Meera Iyer, Harini Nagendra and M.B.Rajani, 'Using satellite imagery and historical maps to investigate the original contours of Lalbagh Botanical Garden' *Current Science*, VOL. 102, NO. 3, 10 February 2012, pp.507-509.
7. Rajani M.B., Bhattacharya, S., and Rajawat A.S., 'Synergistic Application of Optical and Radar Data for Archaeological Exploration in the Talakadu Region, Karnataka', *Journal of the Indian Society of Remote Sensing*, Springer, 2011, pp. 519-527, DOI: 10.1007/s12524-011-0102-6
8. Rajani M.B., and Rajawat A.S., 'Potential of satellite based sensors for studying distribution of archaeological site along palaeo channels: Harappan sites a case study' *Journal of archaeological sciences*, Elsevier, Volume 38, Issue 9, September 2011, 2011,pp. 2010-2016, DOI:10.1016/j.jas.2010.08.008
9. Rajani, M.B., Patra S.K., and Verma, Mamta 'Space observation for generating 3D perspective views and its implication to the study of the archaeological site of Badami in India' *Journal of Cultural Heritage*, Elsevier, Volume 10, Supplement 1, December 2009, pp. e20-e26. DOI: 10.1016/j.culher.2009.08.003
10. Rajani M.B., and Patra, S.K., 'Application of satellite image processing techniques for Talakadu, a unique archaeological landscape in India', *PHOTO-INTERPRETATION*, ESKA, Paris, France, 2009-4 (volume 45), pp.168-175.
11. Rajani, M.B., 'Bangalore from Above: An Archaeological Review' *Current Science* 93(10): 2007, 1352-53 pp.168-175
12. Narasimha, R, Menon, Sangeetha, Bhattacharya, Papiya and Rajani, M. B., 'Six months after the tsunami', *Current Science*, 89 (9): 2005, pp.1459-1461

### **B. Guest Editing of a volume:**

1. Kasturirangan, K. and Rajani, M. B. (eds.) (2007). *Indian Space Programme: A Multidimensional Perspective*. Special Section: Indian Space Programme. *Current Science* 93(12)

### **C. Article in print:**

1. M.B.Rajani, 'Satellite Navigation and observation: effective, accurate and essential methods for visiting and revisiting archaeological sites in Talakadu, India' submitted (Oct 2012) and accepted by *Ancient Asia*, *Journal of society of south Asian archaeology*.

**D. Article under review:**

1. M.B.Rajani, 'The expanse of archaeological remains at Nalanda: a study using Remote Sensing and GIS' submitted on April 27th 2014 to *Archives of Asian Art*.

**E. Articles published in conference proceedings:**

1. M.B.Rajani, and K.Kasturirangan, 'Satellite image and India's past', Futute of the past: a workshop organized under the aegis of ICTS, Nov 22-26, 2011, Mangalore ([http://www.tifr.res.in/~archaeo/FOP/fop.icts\\_table.htm](http://www.tifr.res.in/~archaeo/FOP/fop.icts_table.htm)).
2. M.B.Rajani and Asha Kuzhiparambil, 'Epicenters of missing daughters: geospatial analysis of the Child Sex Ratio in India' ESRI India User Conference, Delhi, 7-8 December 2011
3. I.A.Oltean, M.B.Rajani and N.S.Nalini, 'Pioneering metallurgy: Geospatial technologies', UKIERI Dissemination Seminar Nov 16-18, 2011, National Institute of Advanced Studies (NIAS), Bangalore.
4. N.S.Nalini and M.B.Rajani, 'The importance of precision in georeferencing demonstrated in the case study of archaeological GIS of Chitradurga, Karnataka' in In Stefano Campana, Maurizio Forte and Claudia Liuzza (Eds.), BAR –S2118, 2010 Space, Time, Place *Third International Conference on Remote Sensing in Archaeology, 17th-21st August 2009, Tiruchirappalli, Tamil Nadu, India*, ISBN 978 1 4073 0659 9, pp.173-177.
5. M.B.Rajani and S.Settar, 'Application of multispectral remote sensing imagery in detection of ancient forts in South India' In Stefano Campana, Maurizio Forte and Claudia Liuzza (Eds.), BAR – S2118, 2010 Space, Time, Place *Third International Conference on Remote Sensing in Archaeology, 17th-21st August 2009, Tiruchirappalli, Tamil Nadu, India*, ISBN 978 1 4073 0659 9, pp.123-127.
6. M. B. Rajani, "Space based remote sensing applications for archaeology", Proc. SPIE 7651, 76511O (2009); doi:10.1117/12.855565
7. Rajani, M.B., Patra, S.K., and Verma, Mamta, '3D perspective views and their applications to Archaeology: A case study on the site of Badami' in Lasaponara, R., Masini, N. (Eds,) Proceedings of Workshop on Advances in Remote Sensing for Archaeology and Cultural Heritage Management, Rome 2008.
8. Rajani, M.B., and Rajawat, A.S., 'Lost courses of River Sarasvati and spatial distribution of Harappan settlements – Observations based on multisensor satellite data' in Lasaponara, R., Masini, N. (Eds,) Proceedings of Workshop on Advances in Remote Sensing for Archaeology and Cultural Heritage Management, Rome 2008.
9. Rajani, M.B., Patra, S.K., 2008. 'The applicability of image processing techniques for archaeological exploration using space imagery: Talakadu - a case study' in Lasaponara, R., Masini, N. (Eds,) Proceedings of Workshop on Advances in Remote Sensing for Archaeology and Cultural Heritage Management, Rome 2008.
10. Rajani, M.B., Rajawat, A.S., Krishna Murthy, M.S., Kamini, J., and Srinivas Rao, 'Archaeological exploration in the Talakadu region along the bank of the Cauveri river, Karnataka, Southern India using multi-sensor satellite data and Geographic Information System (GIS)' in Lasaponara, R., Masini, N. (Eds,) Proceedings of Workshop on Advances in Remote Sensing for Archaeology and Cultural Heritage Management, Rome 2008.

**F. Public outreach articles/activities:**

1. M.B.Rajani, 'View from the top', *Higher Education: A guide to opportunities in India and abroad*, The Times Of India, January 2012
2. Inputs on GIS for archaeology for Deepali Roy 'Dig we must? Not really' *Geospatial world*, December 2010

3. Interview: regarding RS work on Talakadu: Meera Iyer 'Township of shifting sands', Deccan Herald, Nov 10 2009.
4. M.B.Rajani, 'Satellites gaze into past', *Geospatial Today*, November 2009
5. M.B.Rajani, 'Satellites gaze into past', *CSSTEAP Newsletter* (Centre for Space Science and Technology Education in Asia and the Pacific: Affiliated to United Nations), Dehradun, Vol 12, issue 2, July 2009
6. K Kasturirangan and M B Rajani 'Saga of Chandrayaan-1' *EXPAT Magazine*, Jan 2009
7. K Kasturirangan and M B Rajani, article on Energy in "Wow! Tech a Look: Some Amazing Future Possibilities in Internet, Mobiles, Learning, Energy, Genetics, Weapons, Nanotech, Health Care: The India story", *The WEEK*, 22 June 2008, pp. 20-22
8. K Kasturirangan and M B Rajani, "Soaring Higher and Higher" in *Innovative India Rises* edited by L K Sharma and Sima Sharma published by Medialand London, 2008, pp. 109-113
9. M.B.Rajani 'Warriors for the afterlife' *The Hindu* (National edition), Magazine, Sunday Nov 4<sup>th</sup> 2007

## Conferences

### **A. International:**

1. Cultureal heritage: Environment, ecology and Inter-Asian Interactionns, Rajgir, Bihar, organized by Nalanda University and International Institute for Asian Studies (IIAS), Leiden, Netherland Jan 6-8 2014
  - I. M.B.Rajani 'Tracing the extent of the ancient site of Nalanda though satellite images'.
2. Royal Society Indo-UK Scientific Seminar, March 7<sup>th</sup> to 9<sup>th</sup> 2012 at the Exeter University, UK
  - I. M.B.Rajani 'Space based remote sensing and its applications in India
3. ESRI India User Conference, Delhi, 7-8 December 2011
  - I. M.B.Rajani and Asha Kuzhiparambil, 'Epicenters of missing daughters: geospatial analysis of the Child Sex Ratio in India'
4. Future Of Past ICTS Mini Workshop on FUTURE OF THE PAST November 22-26, 2011, Gateway Hotel, Mangalore
  - I. Satellite Image and India's Past
5. UKIERI Dissemination Seminar Nov 16-18, 2011, National Institute of Advanced Studies (NIAS), Bangalore
  - I. I.A.Oltean, M.B.Rajani and N.S.Nalini, 'Pioneering metallurgy: Geospatial technologies'
6. *Conference on Space Information Technology*, Beijing, China in November 26-27, 2009. Paper presented:
  - I. Rajani M.B., 'Space based remote sensing applications for archaeology'
7. III INTERNATIONAL CONFERENCE ON *Remote Sensing in Archaeology* 17<sup>th</sup> - 21<sup>st</sup> August 2009, Tiruchirappalli, Tamil Nadu, India. Papers presented:
  - I. N.S.Nalini and M.B.Rajani, 'The importance of precision in georeferencing demonstrated in the case study of archaeological GIS of Chitradurga, Karnataka'
  - II. M.B.Rajani and S.Settar, 'Application of multispectral remote sensing imagery in detection of ancient forts in South India'
8. International Conference on the Tangible and Intangible Heritage of Tangible and Intangible Heritage of Hampi National Institute of Advanced Studies, IISC Campus, Bangalore from January 16 to 18, 2009. Paper presented:
  - I. Sudha Ravindranath, P G Diwakar, Uday Raj and M B Rajani 'Space based inputs for Site management - Hampi World Heritage Site and other site analysis'

9. 1<sup>st</sup> international workshop on "Advances in Remote Sensing for Archaeology and Cultural Heritage Management", Rome Sept 30<sup>th</sup> to Oct 4<sup>th</sup> 2008. Presented four papers:
  - I. Rajani, M.B., Patra, S.K., and Verma, Mamta, '3D perspective views and their applications to Archaeology: A case study on the site of Badami' (poster).
  - II. Rajani, M.B., and Rajawat, A.S., 'Lost courses of River Sarasvati and spatial distribution of Harappan settlements – Observations based on multisensor satellite data'.
  - III. Rajani, M.B., Patra, S.K., 2008. 'The applicability of image processing techniques for archaeological exploration using space imagery: Talakadu - a case study'.
  - IV. Rajani, M.B., Rajawat, A.S., Krishna Murthy, M.S., Kamini, J., and Srinivas Rao, 'Archaeological exploration in the Talakadu region along the bank of the Cauveri river, Karnataka, Southern India using multi-sensor satellite data and Geographic Information System (GIS)' (poster).

**B. Conferences attended and presented (National)**

1. Workshop on Excavated Site of Nalanda, jointly organised by Nalanda University and ASI, Nov 11-12, 2013
  - I. M.B.Rajani 'Ongoing investigations on Nalanda using remote sensing and GIS'
2. ESRI India User Conference, Delhi, 7-8 December 2011
  - I. M.B.Rajani and Asha Kuzhiparambil, 'Epicentres of missing daughters: geospatial analysis of the Child Sex Ratio in India'
3. Future of the Past: Workshop by TIFR, Mumbai, in association with the International Centre for Theoretical Sciences (ICTS), Bangalore, held in Mangalore from November 21 to 26, 2011
  - I. M.B.Rajani 'Satellite Image and India's Past'
4. The Annual Convention of the Society and Geomatics 2009: National conference on "Geomatics and Impact of Climate Change with specific reference to Mountain Ecosystem" at Forest Research Institute (FRI), Dehradun during 4th-6th February 2009. Papers presented:
  - I. Rajani M.B., Sea-level changes and its impact on coastal archaeological monuments: Mahabalipuram, a case study
5. Indian Society of Remote Sensing (ISRS) Symposium on "Advances in Remote Sensing Technology and Applications with Special Emphasis on Microwave Remote Sensing" 18-20 Dec 2008, Nirma University, Ahmedabad. Papers presented:
  - I. Rajani, M.B., Bhattacharya, Satadru and Rajawat, A.S., 'Synergistic Application of Optical and Radar Data for Archaeological Exploration in the Talakadu Region, Karnataka', presented
  - II. Rajani, M.B., and Patra, S.K., '3D analysis using DEM generated using CARTOSAT1 stereo data for archaeological exploration in Talakadu' presented (poster)

**Lectures/Presentation (by invitation):**

1. Wednesday Seminar, Department of History, Delhi University 'Satellites' gaze into the past: the Seven Pagodas of Mahabalipuram and Nalanda Mahavihara' on Aug 6<sup>th</sup> 2014
2. Public talk, Centre of Earth Science, IISc, Bangalore 'Remote Sensing Applications to Archaeology' on Sept 12<sup>th</sup>, 2013
3. Public talk, India Habitat Centre, New Delhi, title 'Satellite's Gaze Into The Past' on July 3<sup>rd</sup> 2013
4. Presentation at Teri University, New Delhi, title 'Application of geoinformatics in archaeology' on July 10<sup>th</sup> 2012
5. Presentation at Kumaraguru Collage of technology, Coimbatore, Tamil Nadu, title 'space based remote sensing and GIS applications' on October 15<sup>th</sup> 2011.
6. Presentation to students and faculty at NIIT University (NU), Neemrana, Rajasthan, title 'Remote sensing and GIS for archaeological investigations' on Sept 8, 2011.



7. Presentation at Archaeological Survey of India (ASI) Janpath, New Delhi, on the multidisciplinary studies in the field of archaeology, title 'Space-based archaeological investigations' on 30 Aug 2011
8. Presentation to Sri Sam Pitrida (Chairman, National Innovation Council, and, Advisor to PM, Public information, infrastructure and Innovation) and his team members at Planning Commission on 29 March 2011.
9. As part of ISRO Induction Training Programme (IITP) at ISRO Satellite Centre, Bangalore, on the topic 'Applications of space based remote sensing to archaeology' on 07 Dec 2009
10. At ISRO Satellite Centre, Bangalore, on the topic 'Applications of space based remote sensing to archaeology' on 11 Sept 2009
11. At Institution of Engineers, Bangalore, on the topic 'Applications of space based remote sensing to archaeology' on 28 May 2009.
12. At Centre for Space Science and Technology Education in the Asia Pacific on the topic 'Remote Sensing Application to archaeology' on 03 Feb 2009.
13. At Department of Archaeology and Museums, Mysore, on the topic 'Remote Sensing and Archaeology' on 31 May 2008

**Languages:** Fluent in English, Hindi and Kannada to speak, read and write ; Tamil, spoken.

**Other interests:** Karnatic music theory, Indian classical dance (Kathak); swimming, painting (water and oil), photography, travelling

**Professional References:**

1. Dr. K.Kasturirangan  
Chairman, Karnataka Knowledge Commission  
Room No. 432-433, 4th Floor, Vikasa Soudha, Bengaluru - 560001. Phone : 080-22267626  
Ph: 011 23096568; Email: [krangank@gmail.com](mailto:krangank@gmail.com)
2. Dr. R.R.Navalgund  
Visiting Professor ISRO HQ; Former Director, Space Applications Centre, Ahmedabad  
Current address: 201,Dahlia, Esteem Gardenia Apts,Sahakaranagar,Bangalore-560092  
Ph: 080 66625594 (res); Email: [navalrr@gmail.com](mailto:navalrr@gmail.com)
3. Dr. M.S.Krishna Murthy  
Former Professor and Chairman, DOS in Ancient History and Archaeology, University of Mysore, Manasagangotri, Mysore – 570006.  
Res: 2977/1-B, *Rashmi*, 5<sup>th</sup> Main Road, Vani Vilas Puram,Mysore – 570002, INDIA  
Phone: 0821/2512647, Mob: 98453 76718; E-Mail: [pushpakrishna@yahoo.com](mailto:pushpakrishna@yahoo.com)
4. Dr John R Marr  
Vice Chairman, Bharatiya Centre, 4a Castletown Road, West Kensington, London - W14 9HE.  
Professor of South Asian Studies (retd), School of Oriental and African Studies (SOAS), London.  
Res: Holme Farm, Woodham Park road, Woodham, Addlestone, Surrey-KT15 3TG. UK  
Ph/fax: 0044 1932343616; Email: [johnmarr@hotmail.com](mailto:johnmarr@hotmail.com)

All the information mentioned above are authentic to the best of my knowledge.

M.B.Rajani