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## HARINI NAGENDRA

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### Education

*Dec. 1998* Ph.D., Centre for Ecological Sciences, Indian Institute of Science  
*March 1995* M.S., Biological Sciences, Indian Institute of Science  
*July 1992* B.Sc., Bangalore University

### Academic Appointments

*Jan 2014 -* Professor – Sustainability, School of Development, Azim Premji University, Bangalore  
*2015 -* External Affiliated Faculty, Ostrom Workshop, Indiana University, Bloomington  
*2000 -14* Asia Research Coordinator, Center for the Study of Institutions, Population, and Environmental Change (CIPEC), Indiana University, Bloomington  
*Sep-Dec 2013* Hubert H. Humphrey Distinguished Visiting Professor, Department of Geography, Macalester College, Saint Paul Minnesota  
*2009 -2013* Department of Science and Technology Ramanujan Fellow, ATREE  
*2003 - 2008* Society in Science: The Branco Weiss Fellowship, Swiss Federal Institute of Technology (ETH), Zurich  
*2003 - 2008* Associate Member, Indian Academy of Sciences  
*2005* Guest of Rektor, Wissenschaftskolleg zu Berlin: Institute of Advanced Studies  
*1999 - 2000* Research Associate, Centre for Ecological Sciences, Indian Institute of Science  
*1998* Visiting Researcher, Department of Evolutionary Biology and Ecology University of California at San Diego  
*1994 - 1997* Research Scholar, Centre for Ecological Sciences Indian Institute of Science

### International Science and Policy Outreach

*2014-16* Member, United Nations' Sustainable Development Solutions Network (SDSN) Thematic Group on Forests, Oceans, Biodiversity and Ecosystem Services  
*2014-16* Member, Scientific Committee, ICSU Programme on Ecosystem Change and Society (PECS)  
*2011-16* Member, Scientific Steering Committee, Global Land Project (GLP)  
*2009-15* Expert Member, Capacity Building Committee, Asia Pacific Network for Global Environmental Change (APN)  
*2011-14* Member, Scientific Committee, DIVERSITAS: International Programme of Biodiversity Science  
*2011-14* Lead Author, Intergovernmental Panel on Climate Change (IPCC) Annual Report 5 – Working Group III  
*2012* Invited Expert, Intergovernmental Science-Policy Platform for Assessment of Biodiversity and Ecosystem Services (IPBES), Draft Conceptual Framework  
*2011* Coordinating Lead Author, International Science Workshop on Assessments for IPBES, UN University Tokyo, 25-29 July

### Research

Urban ecology and urban sustainability  
Collective action for sustainable governance of forests and urban commons  
Patterns, processes and human drivers of land use/land cover change  
Remote sensing for biodiversity assessment and monitoring in protected areas

## Awards

- 2014 Best paper award, Computers and Geosciences, 'Uncertainty in ecosystem mapping by remote sensing' (with lead author Duccio Rocchini and 15 co-authors)
- 2013 Elinor Ostrom Senior Scholar Award for Collective Governance of the Commons
- 2009 Ramanujan Fellowship, Department of Science and Technology, Government of India
- 2007 Cozzarelli Prize for Proceedings of the National Academy of Sciences paper, "Insights on Linking Forests, Trees and People from the Air, on the Ground, and in the Lab", co-authored with Elinor Ostrom
- 2006 Distinguished alumnus, St. Joseph's College of Arts and Sciences, Bangalore
- 2003 Society in Science: Branco Weiss research fellow at the Swiss Federal Institute of Technology, for innovative interdisciplinary research at society-science interfaces
- 2003 Invited associate member, Indian Academy of Sciences
- 2002 START ("global change SysTEM for Analysis, Research and Training") Young Scientist Awards for outstanding research paper on global environmental change
- 2001 Indian National Science Academy (INSA) Young Scientist Medal
- 2001 Indian National Science Academy (INSA) Professor LSS Kumar Memorial Award
- 1999 Shamrao Kaikini award for best doctoral thesis in Biological and Chemical Sciences, Indian Institute of Science
- 1993 M.V. Jaganath Memorial Prize, BSc. University Examination, St. Joseph's College of Arts and Sciences, Bangalore

## Publications

### Books

H. Nagendra (2016). *Nature in the City: Bengaluru in the Past, Present, and Future*. Oxford University Press, Delhi, India.

H. Nagendra and J. Southworth, eds (2010). *Reforestation Landscapes: Pattern and Process*. Springer Landscape Series, Dordrecht, The Netherlands.

### Journal Articles

1. M. Niphadkar and H. Nagendra (2016). Remote sensing of invasive plants: bringing ecology in the picture. *International Journal of Remote Sensing* 37: 3074-3085.
2. S. Agarwal, D. Rocchini, A. Marathe and H. Nagendra (2016). Exploring the relationship between remotely-sensed spectral variables and attributes of forest vegetation under the influence of local forest institutions (2016). *ISPRS International Journal of Geo-Information* 5: 117, doi: 10.3390/ijgi5070117.
3. S. Agarwal, R.H. Nagendra and R. Ghate (2016). The influence of forest management regimes on deforestation in a Central Indian dry deciduous forest landscape. Forthcoming in *LAND*.
4. V. Tomaselli, M. Adamo, G. Veronico, S. Sciandrello, C. Tarantino, P. Dimopoulos, P. Medagli, H. Nagendra and P. Blonda (2016). Definition and application of expert knowledge on vegetation pattern, phenology and seasonality for habitat mapping, as exemplified in a Mediterranean coastal site. Forthcoming in *Plant Biosystems*.
5. P. Mondal, H. Nagendra and R. DeFries (2016). Addressing issues of climate change impacts, adaptation and vulnerability on the ground: Challenges and opportunities. *Current Science* 110: 1193-1194.
6. S. Purushothaman, C. Ravi, H. Nagendra, M. Mathai, S. Mundoli, G. Joseph, S. Barna, N. Nawn, R. Gopalan, M. Bursztyn, M. Padmanabhan, S. Duncan and R.S. DeFries (2016). Sustainability in higher education for the global south: a conversation across geographies and disciplines. *Sustentabilidade em Debate – Brasília* 7: 156-173.
7. H. Unnikrishnan, S. Mundoli, B. Manjunatha and H. Nagendra (2016). Down the drain: the tragedy of the disappearing urban commons of Bengaluru. *South Asian Journal of Water Studies* 5: 7-11.
8. M. Adamo, C. Tarantino, V. Tomaselli, G. Veronico, H. Nagendra and P. Blonda (2016). Habitat mapping of coastal wetlands using expert knowledge and Earth Observation (EO) data. *Journal of Applied Ecology* DOI 10.1111/1365-2664.12695
9. N. Pettorelli, M. Wegmann, A. Skidmore, S. Muecher, T. Dawson, M. Fernandez, R. Lucas, M. E. Schaeppman, T. Wang, B. O'Connor, R. Jongman, P. Kempeneers, R. Sonnenschein, A.

- Leidner, M. Böhm, K. He, H. Nagendra; G. Dubois, L. Fatoyinbo, M. Hansen, M. Paganini, H. de Klerk, G. Asner, J. Kerr, A. Estes, D. Schmeller, U. Heiden, D. Rocchini, H. Pereira, E. Turak, N. Fernandez, A. Lausch, M. Cho, D. Alcaraz-Segura, M. McGeoch, W. Turner, A. Mueller, V. St-Louis, J. Penner, G. Geller (2016). Framing the concept of Satellite Remote Sensing Essential Biodiversity Variables: challenges and future directions. *Remote Sensing for Ecology and Conservation*, DOI: 10.1002/rse2.15.
10. H. Unnikrishnan, B. Manjunatha and H. Nagendra (2016). Contested urban commons: Mapping the transition of a lake to a sports stadium in Bangalore. *International Journal of the Commons* 10: 265-293.
  11. D. Rocchini, D. S. Boyd, J.-B. Fret, G.M. Foody, K. S. He, A. Lausch, H. Nagendra, M. Wegmann, N. Pettorelli (2016). Satellite remote sensing to monitor species diversity: potential and pitfalls. *Remote Sensing in Ecology and Conservation* 2: 25-36.
  12. P.H. Verburg, N. Crossman, E. Ellis, A. Heinimann, P. Hostert, O. Mertz, H. Nagendra, T. Sikor, K.-H. Erb, N. Golubiewski, R. Grau, M. Grove, S. Konaté, P. Meyfroidt, D.C. Parker, R. Roy Chowdhury, H. Shibata, A. Thompson and L. Zhen (2015). Land System Science and sustainable development of the earth system: a Global Land Project perspective. *Anthropocene*, doi:10.1016/j.ancene.2015.09.004.
  13. M. Niphadkar, G.F. Ficetola, A. Bonardi, H. Nagendra, E. Padoa-Schioppa (2016). Effects of landscape context on the invasive species *Lantana camara* in Biligiri Rangaswamy Temple Tiger Reserve, India. *Tropical Ecology* 57: 9-20.
  14. H. Nagendra (2015). Wild beasts in the city. *Seminar India* September 2015: 29-43.
  15. P. Mairota, B. Cafarelli, R.K. Didham, F.P. Lovergine, R.L. Lucas, H. Nagendra, D. Rocchini, C. Tarantino (2015). Challenges and opportunities for harnessing satellite remote sensing for biodiversity monitoring. *Ecological Informatics* 30: 207-214.
  16. V. Varma, J. Ratnam, V. Viswanathan, A.M. Osuri, J.C. Biesmeijer, M.D. Madhusudan, M. Sankaran, M. Krishnadas, D. Barua, M. Budruk, K. Isvaran, R. Jayapal, J. Joshi, K.K. Karanth, J. Krishnaswamy, R. Kumar, S. Mukherjee, H. Nagendra, M. Niphadkar, N. Owen, N. Page, S. Prasad, S. Quader, N. Rajamani, V.V. Robin, S.M. Sait, M.A. Shah, H. Somanathan, U. Srinivasan, B. Sundaram (2015). Perceptions of priority issues in the conservation of biodiversity and ecosystems in India. *Biological Conservation* 187: 201-211.
  17. A.A. Das, H. Nagendra, M. Anand and M. Bunyan (2015). Topographic and bioclimatic determinants of the occurrence of forest and grassland in tropical montane forest-grassland mosaics of the Western Ghats, India. *PLoS ONE* 10(6): e0130566.
  18. S. Adhikari, J. Southworth and H. Nagendra (2015). Understanding forest loss and recovery: a spatio-temporal analysis of land change in and around Bannerghatta National Park, India. *Journal of Land Use Change* 10: 402-424.
  19. D. Gopal, M. Manthey and H. Nagendra (2015). Vegetation in slums of Bangalore, India: Composition, distribution, diversity and history. *Environmental Management* 55: 1390-1401.
  20. S. Mundoli, B. Manjunatha and H. Nagendra (2015). Effects of urbanization on the use of lakes as commons in the peri-urban interface of Bengaluru, India. *International Journal of Sustainable Urban Development* 7: 89-108.
  21. D. Rocchini, V. Andero, M. Förster, C.X. Garzon-Lopez, A.P. Gutierrez, T.W. Gillespie, H. Hauffe, K.S. He, B. Kleinschmit, P. Mairota, M. Marcantonio, M. Metz, H. Nagendra, S. Pareeth, L. Ponti, C. Ricotta, A. Rizzoli, G. Schaab, M. Zebisch, R. Zorer and M. Neteler (2015). Potential of remote sensing to predict species invasions – a modeling perspective. *Progress in Physical Geography* 39: 283-309.
  22. H. Unnikrishnan and H. Nagendra (2015). Privatization of the commons: impact on ecosystem services in Bangalore's lakes. *Urban Ecosystems* 18: 613-632.
  23. S. Paul and H. Nagendra (2015). Vegetation change and fragmentation in the mega city of Delhi: mapping 25 years of change. *Applied Geography* 58: 153-166.
  24. H. Nagendra, P. Mairota, C. Marangi, R. Lucas, P. Dimopoulos, J.P. Honrado, M. Niphadkar, C.A. Múcher, V. Tomaselli, M. Panitsa, C. Tarantino, I. Manakos and P. Blonda (2015). Satellite remote sensing to monitor pressure in protected areas. *International Journal of Applied Earth Observation and Geoinformation* 37: 124-132.
  25. P. Mairota, B. Cafarelli, R. Labadessaa, F. Lovergine, C. Tarantino, R.M. Lucas, H. Nagendra and R.K. Didham (2015). Very high resolution Earth Observation features for monitoring

- plant and animal community structure across multiple spatial scales in protected areas. *International Journal of Applied Earth Observation and Geoinformation* 37: 100-105.
26. P. Mairota, B. Cafarelli, R. Labadessaa, F. Lovergine, C. Tarantino, H. Nagendra and R.K. Didham (2015). Very high resolution Earth Observation features for testing the direct and indirect effects of landscape structure on local habitat quality. *International Journal of Applied Earth Observations and Geoinformation* 34: 96-102.
  27. S. Díaz, S. Demissew, J. Carabias, C. Joly, M. Lonsdale, N. Ash, A. Larigauderie, J.R. Adhikari, S. Arico, A. Báldi, A. Bartuska, I. A. Baste, A. Bilgin, E. Brondizio, K.M.A. Chan, V.E. Figueroa, A. Duraiappah, M. Fischer, R. Hill, T. Koetz, P. Leadley, P. Lyver, G.M. Mace, B. Martin-Lopez, M. Okumura, D. Pacheco, U. Pascual, E. S. Pérez, B. Reyers, E. Roth, O. Saito, R. J. Scholes, N. Sharma, H. Tallis, R. Thaman, R. Watson, T. Yahara, Z.A. Hamid, C. Akosim, Y. Al-Hafedh, R. Allahverdiyev, E. Amankwah, T.S. Asah, Z. Asfaw, G. Bartus, A.L. Brooks, J. Caillaux, G. Dalle, D. Darnaedi, A. Driver, G. Erpul, P. Escobar-Eyzaguirre, P. Failler, A.M.M. Fouda, B. Fu, H. Gundimeda, S. Hashimoto, F. Homer, S. Lavorel, G. Lichtenstein, W.A. Mala, W. Mandivenyi, P. Matczak, C. Mbizvo, M. Mehrdadi, J.P. Metzger, J.B. Mikissa, H. Moller, H.A. Mooney, P. Mumby, H. Nagendra, C. Nesshover, A.A. Oteng-Yeboah, G. Pataki, M. Roué, J. Rubis, M. Schultz, P. Smith, R. Sumaila, K. Takeuchi, S. Thomas, M. Verma, Y. Yeo-Chang, D. Zlatanova (2015). The IPBES Conceptual Framework — connecting nature and people. *Current Opinion in Environmental Sustainability* 14: 1-16.
  28. N. Pettorelli, H. Nagendra, R. Williams, D. Rocchini and E. Fleishman (2015). A new platform to support research at the interface of remote sensing, ecology and conservation. *Remote Sensing in Ecology and Conservation* 1: 1-3.
  29. H. Tallis, J. Lubchenco et al (with 238 co-signatories) (2014). A call for inclusive conservation. *Nature* 515: 27.
  30. H. Unnikrishnan and H. Nagendra (2014). Unruly commons: contestations around Sampangi lake in Bangalore. Nehru Memorial Museum and Library Occasional Paper: Perspectives in Indian Development New Series, No. 39.
  31. H. Nagendra and E. Ostrom (2014). Applying the social-ecological systems framework to the diagnoses of urban commons. *Ecology and Society* 19(2): 67.
  32. D. Gopal and H. Nagendra (2014). Vegetation in Bangalore's slums: Boosting livelihoods, well-being and social capital. *Sustainability* 6: 2459-2473.
  33. N. Pettorelli, W.F. Laurance, T. O'Brien, M. Wegmann, H. Nagendra and W. Turner (2014). Satellite remote sensing for applied ecologists: opportunities and challenges. *Journal of Applied Ecology* 51: 839-848.
  34. H. Nagendra, R. Ghate and J. Rao (2014). Governing India's commons: the influence of Elinor Ostrom's ideas. *IUCN Policy Matters* 19: 11-22.
  35. H. Nagendra, H. S. Sudhira, M. Katti, M. Tengö and M. Schewenius (2014). La urbanización y su impacto sobre el uso de la tierra, la biodiversidad y los ecosistemas en la India. *Interdisciplina* 2: 169–178. (Adapted from Nagendra, Sudhira, Katti et al. 2013).
  36. H. Nagendra, H. Unnikrishnan and S. Sen (2014). Villages in the city: spatial and temporal heterogeneity in rurality and urbanity in Bangalore, India. *LAND* 3: 1-18.
  37. P. Mairota, V. Leronni, W. Xi, D. Mladenoff and H. Nagendra (2014). Using spatial simulations of habitat modification for adaptive management of protected areas: Mediterranean grassland modification by woody plant encroachment. *Environmental Conservation* 41: 144-156.
  38. M. Jaganmohan, L.S. Vailshery and H. Nagendra (2013). Patterns of insect abundance and distribution in urban domestic gardens in Bangalore, India. *Diversity* 5: 767-778.
  39. J.R. Matta, R. Ghate and H. Nagendra (2013). The sustainability of traditional community forest management systems: lessons from India. *Unasylva* 240: 50-56.
  40. H. Nagendra, B. Reyers and S. Lavorel (2013). Impacts of land change on biodiversity: making the link to ecosystem services. *Current Opinions in Environmental Sustainability* 5: 503-508.
  41. L.S. Vailshery, M. Jaganmohan and H. Nagendra (2013). Effect of street trees on microclimate and air pollution in a tropical city. *Urban Forestry and Urban Greening* 12: 408-415.
  42. S. Agarwal, L.S. Vailshery, M. Jaganmohan and H. Nagendra (2013). Mapping urban tree species using very high resolution satellite imagery: comparing pixel-based and object-based approaches. *ISPRS International Journal of Geo-Information* 2: 220-236.

43. V. Tomaselli, P. Dimopoulos, C. Marangi, A.S. Kallimanis, M. Adamo, C. Tarantino, M. Panitsa, M. Terzi, G. Veronico, F. Lovergine, H. Nagendra, R. Lucas, P. Mairota, S. Mücher and P. Blonda (2013). Translating land cover/land use classifications to habitat taxonomies for landscape monitoring: a Mediterranean assessment. *Landscape Ecology* 28: 905-930.
44. H. Nagendra, R. Ghate and J. Rao (2013). Governing the commons. *Seminar India* 641: 88-93.
45. H. Nagendra, R. Lucas, J.P. Honrado, R.H.G. Jongman, C. Tarantino, M. Adamo, P. Mairota (2013). Remote sensing for conservation monitoring: Assessing protected areas, habitat extent, habitat condition, species diversity and threats. *Ecological Indicators* 33: 45-59.
46. P. Mairota, B. Cafarelli, L. Boccaccio, V. Leronni, R. Labadessa, V. Kosmidou, H. Nagendra (2013). Using landscape structure to develop quantitative baselines for protected area monitoring. *Ecological Indicators* 33: 82-95.
47. D. Rocchini, L. Delucchi, G. Bacaro, P. Cavallini, H. Feilhauer, G.M. Foody, K.S. He, H. Nagendra, C. Porta, C. Ricotta, S. Schmidlein, L.D. Spano, M. Wegmann, M. Neteler (2012). Calculating landscape diversity with information theory-based indices: A Grass GIS solution. *Ecological Informatics* 72: 82-93.
48. D. Rocchini, G.M. Foody, H. Nagendra, C. Ricotta, M. Anand, K.S. He, V. Amici, B. Kleinschmit, M. Förster, S. Schmidlein, H. Feilhauer, A. Ghisla, M. Metz, M. Neteler (2013). Uncertainty in ecosystem mapping by remote sensing. *Computers and Geosciences* 50: 128-135
49. H. Nagendra and E. Ostrom (2012). Polycentric governance of forest resources. *International Journal of the Commons* 6: 104-133.
50. M. Jaganmohan, L.S. Vailshery, D. Gopal and H. Nagendra (2012). Plant diversity and distribution in urban domestic gardens and apartments in Bangalore, India. *Urban Ecosystems* 15: 911-925.
51. H. Nagendra, S. Nagendran, S. Paul and S. Pareeth (2012). Graying, greening and fragmentation in the rapidly expanding Indian city of Bangalore. *Landscape and Urban Planning* 105: 400-406.
52. M. Iyer, H. Nagendra and M.B. Rajani (2012). Using satellite imagery and historical maps to investigate the contours of Lalbagh. *Current Science* 102: 507-509.
53. J. Southworth, H. Nagendra and L. Cassidy (2012). Forest transition pathways in Asia: Studies from Nepal, India, Thailand and Cambodia. *Journal of Land Use Science*, 7(1): 51-65.
54. H. Nagendra (2012). Assessing relatedness and redundancy of forest monitoring and change indicators. *Journal of Environmental Management* 95: 108-113.
55. P. Mondal and H. Nagendra (2011). Trends of forest dynamics in tiger landscapes across Asia. *Environmental Management* 48: 781-794.
56. H. Nagendra and E. Ostrom (2011). The challenge of forest diagnostics. *Ecology and Society* 16: 20. [online] URL: <http://www.ecologyandsociety.org/vol16/iss2/art20/>.
57. R. D'Souza and H. Nagendra (2011). Changes in public commons as a consequence of urbanization: the Agara lake in Bangalore, India. *Environmental Management* 47: 840-850.
58. K.S. He, D. Rocchini, M. Neteler and H. Nagendra (2011). Benefits of hyperspectral remote sensing for tracking plant invasions. *Diversity and Distributions* 17: 381-392.
59. H. Nagendra and D. Gopal (2011). Tree diversity, distribution, history and change in urban parks. *Urban Ecosystems* 14: 211-223.
60. D. Rocchini, N. Balkenhol, G.A. Carter, G.M. Foody, T.W. Gillespie, K.S. He, S. Kark, N. Levin, K. Lucas, M. Luoto, H. Nagendra, J. Oldeland, C. Ricotta, J. Southworth and M. Neteler (2010). Remotely sensed spectral heterogeneity as a proxy of species diversity: recent advances and open challenges. *Ecological Informatics* 5: 318-329.
61. H. Nagendra, D. Rocchini and R. Ghate (2010). Beyond parks as monoliths: Spatially differentiating park-people relationships in the Tadoba Andhari Tiger Reserve in India. *Biological Conservation* 143: 2900-2908.
62. H. Nagendra and D. Gopal (2010). Street trees in Bangalore: Density, diversity, composition and distribution. *Urban Forestry and Urban Greening* 9: 129-137.
63. H. Nagendra, D. Rocchini, R. Ghate, B. Sharma and S. Pareeth (2010). Assessing plant diversity in a dry tropical forest: Comparing the utility of Landsat and IKONOS satellite images. *Remote Sensing* 2: 478-496.

64. N. Lele, H. Nagendra and J. Southworth (2010). Accessibility, demography and protection: Drivers of forest stability and change at multiple scales in the Cauvery basin, India. *Remote Sensing* 2: 306-323.
65. H. Nagendra (2010). Maps, lakes and citizens. *Seminar India* 613: 19-23.
66. H. Nagendra and R. Gadagkar (2009). Society and science: interdisciplinary exchanges. *Current Science* 97: 1513-1514.
67. H. Nagendra (2009). Drivers of regrowth in South Asia's human impacted forests. *Current Science* 97: 1586-1592.
68. H. Nagendra, S. Pareeth, S. Paul and S. Dutt (2009). Landscapes of protection: forest change and fragmentation in northern West Bengal, India. *Environmental Management* 44: 853-864.
69. H. Nagendra and R. Ghate (2009). Ostrom on India and Nepal. *Economic and Political Weekly* 44: 4.
70. D. Rocchini, H. Nagendra, R. Ghate and B. Cade (2009). Spectral distance decay: assessing species beta-diversity by quantile regression. *Photogrammetric Engineering and Remote Sensing* 75: 1225-1230.
71. R. Ghate, D. Mehra and H. Nagendra (2009). Local institutions as mediators of the impact of markets on non-timber forest product extraction in central India. *Environmental Conservation* 36: 51-61.
72. H. Nagendra and D. Rocchini (2008). High resolution satellite imagery for tropical biodiversity studies: the devil is in the detail. *Biodiversity and Conservation* 17: 3431-3442.
73. H. Nagendra (2008). Do parks work? Impact of protected areas on land cover clearing. *Ambio* 37:330-337.
74. H. Nagendra and Y. Gokhale (2008). Management regimes, property rights, and forest biodiversity in Nepal and India. *Environmental Management* 41:719-733.
75. H. Nagendra, S. Pareeth, B. Sharma, C.M. Schweik and K.R. Adhikari (2008). Forest fragmentation and regrowth in an institutional mosaic of community, government and private ownership in Nepal. *Landscape Ecology* 23: 41-54.
76. D.K. Munroe, H. Nagendra and J. Southworth (2007). Monitoring landscape fragmentation in an inaccessible mountain area: Celaque National Park, Western Honduras. *Landscape and Urban Planning* 83: 154-167.
77. H. Nagendra (2007). Drivers of reforestation in human-dominated forests. *Proceedings of the National Academy of Sciences USA* 104: 15218-15223.
78. E. Ostrom and H. Nagendra (2007). Tenure alone is not sufficient: monitoring is essential. *Environmental Economics and Policy Studies* 8: 175-199.
79. H. Nagendra (2007). Communities and conservation. *Seminar India* 577: 45-50.
80. E. Ostrom and H. Nagendra (2006). Insights on Linking Forests, Trees, and People from the Air, on the Ground, and in the Lab. *Proceedings of the National Academy of Sciences USA* 103: 19224-19331.
81. J. Southworth, H. Nagendra and D. K. Munroe (2006). Are parks working? Exploring human-environment tradeoffs in protected area conservation. *Applied Geography* 26: 87-95.
82. H. Nagendra, S. Pareeth and R. Ghate (2006). People within parks: forest villages, land-cover change and landscape fragmentation in the Tadoba-Andhari Tiger Reserve, India. *Applied Geography* 26: 96-112.
83. R. Ghate and H. Nagendra (2005). Role of monitoring in institutional performance: forest management in Maharashtra, India. *Conservation and Society* 3: 509-532.
84. H. Nagendra, M. Karmacharya and B. Karna (2005). Evaluating forest management in Nepal: views across time and space. *Ecology and Society* 10: 24. [online] URL: <http://www.ecologyandsociety.org/vol10/iss1/art24/>.
85. H. Nagendra, B. Karna and M. Karmacharya (2005). Examining institutional change: social conflict in Nepal's leasehold forestry programme. *Conservation and Society* 3: 72-91.
86. C.M. Tucker, D.K. Munroe, H. Nagendra and J. Southworth (2005). Comparative spatial analyses of forest conservation and change in Honduras and Guatemala. *Conservation and Society* 3: 174-200.

87. H. Nagendra, J. Southworth, C. Tucker, M. Karmacharya, B. Karna and L.A. Carlson (2004). Monitoring parks through remote sensing: Studies in Nepal and Honduras. *Environmental Management* 34: 748-760.
88. H. Nagendra, D. Munroe and J. Southworth (2004). From pattern to process: landscape fragmentation and the analysis of land use/land cover change. *Agriculture, Ecosystems and Environment* 101: 111-115.
89. J. Southworth, H. Nagendra, L. Carlson and C. Tucker (2004). Assessing the impact of Celaque National Park on forest fragmentation in western Honduras. *Applied Geography* 24: 303-322.
90. J. Southworth, D. Munroe and H. Nagendra (2004). Land cover change and landscape fragmentation: comparing the utility of continuous and discrete analyses for a study area in Western Honduras. *Agriculture, Ecosystems and Environment* 101: 185-205.
91. H. Nagendra, J. Southworth and C. Tucker (2003). Accessibility as a determinant of landscape transformation in Western Honduras: linking pattern and process. *Landscape Ecology* 18: 141-158.
92. H. Nagendra and G. Utkarsh (2003). Landscape ecological planning through a multi-scale characterization of pattern: studies in the Western Ghats, South India. *Environmental Monitoring and Assessment* 87: 815-833.
93. C. Schweik, H. Nagendra and D.R. Sinha (2003). Using satellites to search for forest management innovations in Nepal. *Ambio* 32: 312-319.
94. H. Nagendra (2002). Tenure and forest conditions: Community forestry in the Nepal Terai. *Environmental Conservation*, 29(4), 530-539.
95. H. Nagendra (2002). Opposite response of the Shannon and Simpson indices of landscape diversity. *Applied Geography* 22: 175-186.
96. J. Southworth, H. Nagendra and C.M. Tucker (2002). Fragmentation of a landscape: Incorporating landscape metrics into satellite analyses of land cover change. *Landscape Research* 27: 253-269.
97. H. Nagendra (2001). Using remote sensing to assess biodiversity. *International Journal of Remote Sensing* 22: 2377-2400.
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3. S. Mundoli, B. Manjunatha and H. Nagendra (2016). Losing the Commons: Rapid Changes in Gundathopes in Bangalore. *Workshop on Bangalore's 'Great Transformation', National Institute of Advanced Studies, Bangalore*, 25 June.
4. H. Unnikrishnan, B. Manjunatha and H. Nagendra (2016). Bonds that divide: urbanization and the erosion of commons. *Reframing the Environment: Resources, Risk & Resistance in Neoliberal India, Mumbai University, Mumbai*, 22 January.
5. H. Nagendra, S. Mundoli and H. Unnikrishnan (2016). Commons that provide: The importance of Bengaluru's ecosystems for urban resilience. *URBIS (Urban Biosphere Initiative) Dialogue 8: The urban commons: the many ways in which nature in the city serves as a commons resource, not just a private*. International webinar, 14 January.
6. H. Nagendra, S. Mundoli and H. Unnikrishnan (2016). Commons that provide: Multiple uses and vulnerabilities of Bengaluru's urban commons. *8<sup>th</sup> Biennial Indian National Society for Ecological Economics (INSEE) Conference on Urbanization and the Environment, Bangalore*, 6 January.

7. H. Nagendra (2015). Graying & greening in Bangalore: Impacts of urbanization on production and recreational ecosystem services. *Program on Ecosystem Change and Society (PECS) 2015 Conference*, Stellenbosch, South Africa, 5 November.
8. H. Unnikrishnan, B. Manjunatha and H. Nagendra (2015). Tales from long ago and why we need them to secure a resilient future. *International Conference on Green Development in Tropical Regions*, Padang, Indonesia, 28-31 October.
9. A.J. Kurien, S. Lele and H. Nagendra (2015). Forests of the mind: Contrasting official forest representation of a shifting cultivation (jhum) landscape in Garo hills, India. *Student Conference in Conservation Science*, Bangalore, 10 September.
10. H. Unnikrishnan and H. Nagendra (2015). Temporal continuities in governance of urban lake commons and effects on ecosystem services they provide: A case study of Bangalore. *Student Conference in Conservation Science, Cambridge, UK*, 26-28 March. Poster.
11. H. Nagendra and H. Unnikrishnan (2014). What is a good urban? Who decides? Stories around a lost lake in Bangalore. *2nd International Conference on Urbanization and Global Environmental Change (UGEC), Taipei*, 8 November.
12. H. Nagendra (2014). The cooperative governance of urban ecosystems as commons. *2nd International Conference on Urbanization and Global Environmental Change (UGEC), Taipei*, 7 November.
13. H. Nagendra (2014). Graying and greening in Bangalore: Urban green spaces in Indian cities. *Indo-US Workshop on Best Practices and Eco-Restoration Technologies for Enhancing Functional Connectivity of Urban Landscapes, Bangalore*, 1 November.
14. S. Agarwal, H. Nagendra and R. Ghate (2014). Conservation in an institutional mosaic: People and forest within and outside the park of Central India. *Student Conference in Conservation Science - Bangalore*, 28 September.
15. H. Unnikrishnan and H. Nagendra (2014). Historical contestations around an urban lake: Lessons learnt for lake management in Bangalore City. *Student Conference in Conservation Science - Bangalore*, 28 September.
16. H. Nagendra (2014). Deforestation and urbanization: sustainability and change in Indian cities and forests. Invited talk, *International Geosphere Biosphere Programme (IGBP) symposium, Bangalore*, 7 April.
17. H. Unnikrishnan and H. Nagendra (2014). Unruly commons: contestations around Sampangi lake in Bangalore. In *Unruly Environments: Ecologies of Agency in the Global Era*, Nehru Memorial Museum and Library, Delhi, 13 February.
18. H. Nagendra (2013). Urbanization of habitats: challenges for India. In *High Level Structured Discussion, Resilient Design for Sustainable Urbanization: In Celebration of World Habitat Day 2013, UN Habitat, United Nations Headquarters, New York*, 30 September.
19. H. Nagendra (2013). Human-nature interactions: towards sustainability in urban and rural settings. In *Being Social: An Interdisciplinary Conference on Social Behavior*, Indian Institute of Science, Bangalore, 26 June.
20. H. Nagendra (2013). Multi-level governance and adaptation to climate change and urbanization: lake commons in Bangalore, India. *International Association for Study of the Commons, Mount Fuji, Japan*, 4 June.
21. H. Nagendra, P. Blonda, P. Mairota, C. Marangi, D. Torri, R. Lucas, P. Dimopolous, J. P. Honrado, M. Niphadkar, S. Mùcher, V. Tomaselli (2013). Using remote sensing for identification and monitoring of anthropic pressures on habitats and biodiversity in protected areas: a multi-nation study. *Association of American Geographers Annual Meeting 2013, Los Angeles*, 12 April.
22. M. Rao, H. Nagendra, G. Shahabuddin, R. Torrecilla (2012). Community Governance and Biodiversity Conservation: Synergies or Tradeoffs? *Protected Areas: are they safeguarding biodiversity? ZSL Institute of Zoology, London*, 9 November.
23. H. Nagendra (2012). Greening Cities: Urbanization and Climate Change in India. *3rd National Research Conference on Climate Change, Bangalore*, 4 November.
24. H. Nagendra (2012). Conservation in Cities: Challenges in Bangalore. *URBIO 2012 - 3rd International Conference of Urban Biodiversity and Design, Mumbai*, 10 October.
25. H. Nagendra and E. Ostrom (2012). Institutions and Their Impact on Forest Structure and Composition. Presented by E. Ostrom. *Planet Under Pressure: New Knowledge Towards Solutions, London*, 26 March.

26. H. Nagendra and E. Ostrom (2011). Assessing Forest Change in Human Impacted Forests. *International Association for the Study of the Commons, Hyderabad*, 11 January.
27. H. Nagendra, L.S. Vailshery and M. Jaganmohan (2010). Significant Impact of Street Trees on Air Pollution and Temperature Reduction in Bangalore. *PolluteTech India 2010, Bangalore*, 29 October.
28. H. Nagendra and E. Ostrom (2010). The Challenge of Forest Diagnostics. *Delivered by E. Ostrom at the Sub-Plenary Session on "New Frontiers of Forest Economics," XXIII IUFRO World Congress, Seoul, South Korea*, 27 August.
29. H. Nagendra (2010). Deforestation or Regrowth? Drivers of Forest Change in Human Dominated Landscapes. *Seminar on Future Nature Conservation, Swedish Royal Academy of Science, Stockholm*, 11 February.
30. H. Nagendra and E. Ostrom (2010). Charting the Complexity of Forest Change in Human Dominated Forests. *International Conference on Evolution of Complex Systems, Indian Institute of Science, Bangalore*, 14 January.
31. H. Nagendra, L.S. Vailshery, M. Jaganmohan, D. Gopal, S. Nagendran (2009). Impact of Street Tree Canopies on Pollution and Microclimate in Bangalore. *5<sup>th</sup> International Canopy Conference on Forest Canopies: Conservation, Climate Change, and Sustainable Use, Bangalore*, 29 October.
32. H. Nagendra (2006). Designing Markets for Environmental Services: Thinking at Multiple Scales. *Panel on Designing Markets for Environmental Services: Potentials and Challenges for India, 9<sup>th</sup> Biennial Conference of the international Society for Ecological Economics, New Delhi*, 15-18 December.
33. H. Nagendra and E. Ostrom (2006). Human Dimensions of Forest Change: Observations From the Air and On the Ground. *3<sup>rd</sup> Future Environmental Trends Conference, Energy, Environment and Development: Analyzing Opportunities for Reducing Poverty, Bangalore*, 14-16 December.
34. H. Nagendra (2006). Peopling the Remote: Comparing Participatory and Exclusionary Strategies of Park Management in South Asia. *International Association for the Study of Common Property, Bali*, 19-23 June.
35. H. Nagendra, S. Pareeth and R. Ghate (2006). People within Parks: Forest Fragmentation and Change within the Tadoba-Andhari Tiger Reserve. *ATREE First Annual Research Seminar, Bangalore*, 6-7 January.
36. S. Pareeth and H. Nagendra (2005). Institutions, Protected Areas and Land Use – A Landscape Framework for Conservation in India. *Society for Conservation Biology: First Asia Section Meeting, Kathmandu, Nepal*, 17-20 November.
37. H. Nagendra, S. Pareeth, B. Karna and M. Karmacharya (2005). Integrating Satellite Image Analysis with Field Data for a Multi-Scale Assessment of Local Institutions and Biodiversity Distribution in Nepal. *First DIVERSITAS International Conference on Biodiversity, Oaxaca, Mexico*, 9-12 November.
38. H. Nagendra and S. Pareeth (2005). Forest Conservation in the South Asian Landscape: Discrete and Continuous Views. *6<sup>th</sup> Open Meeting of the Human Dimensions of Global Environmental Change Research Community, University of Bonn, Germany*, 9-13 October.
39. H. Nagendra. (2005). Problems of Collective Action in Natural Resource Management. *Conflict Resolution: Bringing Together Biologists and Social Scientists, Wissenschaftskolleg: Institute of Advanced Studies, Berlin*. 4-7 May.
40. H. Nagendra. (2005). Remote sensing and biodiversity assessments: On what scales and on which organisational level (genetic diversity, species richness, ecosystem diversity) are remotely derived variables useful predictors/indicators for biodiversity? Keynote contribution to the Electronic Conference on 'Landscape scale biodiversity assessment, the problem of scaling', European Platform for Biodiversity Research Strategy (EPBRS), March 7-23.
41. H. Nagendra, J. Southworth, C.M. Tucker, B. Karna and M. Karmacharya. (2004). Remote Sensing for Policy Evaluation: Monitoring Parks in Nepal and Honduras. *2004 meeting of the International Association for the Study of Common Property*, 9-14 August, Oaxaca, Mexico.
42. H. Nagendra, B. Karna and M. Karmacharya. (2004). Disentangling a complex web: Nepal's People and Parks program. *100<sup>th</sup> meeting of the Association of American Geographers*, 14-19 March, Philadelphia.

43. D. Munroe, H. Nagendra and J. Southworth. (2004). Protection, topography and market accessibility: Examining forest fragmentation in Celaque National Park, Western Honduras. *100<sup>th</sup> meeting of the Association of American Geographers*, 14-19 March, Philadelphia.
44. H. Nagendra and J. Southworth. (2003). Seeing reforestation patterns, inferring institutional processes. *1<sup>st</sup> International Young Scientists Global Change Conference*, 16-19 November, Trieste, Italy.
45. J. Southworth, D. Munroe and H. Nagendra. (2003). Investigating alternatives to classification analyses: From models to landscapes. *2003 Open Meeting of the Human Dimensions of Global Environmental Change Research Community*, 18 October, Montreal, Canada.
46. H. Nagendra. (2003). Decentralization in Nepal: Evaluating community forestry through space and time. *99<sup>th</sup> Annual Meeting of the Association of American Geographers*, 4-8 March, New Orleans.
47. J. Southworth, D. Munroe and H. Nagendra. (2003). Fragmentation and Land Cover Change Research: Addressing the issues of continuous vs. discrete analyses. *99<sup>th</sup> Annual Meeting of the Association of American Geographers*, 4-8 March, New Orleans.
48. H. Nagendra. (2002). Forests and decentralization in Nepal: Views across time and space. *International Conference on Environmental History of Asia*. 4-7 December, New Delhi, India.
49. C.M. Tucker, D. Munroe, H. Nagendra and J. Southworth. (2002). Analyzing social and environmental processes in Honduras and Guatemala: The complementarity of ethnographic and spatially explicit approaches. *101<sup>st</sup> Annual Meeting of the American Anthropological Association*. 20-24 November, New Orleans.
50. H. Nagendra, J. Southworth and C. Tucker. (2002). Accessibility as a determinant of landscape transformation in Western Honduras: Linking pattern and process. *98<sup>th</sup> Annual Meeting of the Association of American Geographers*, 23-29 March, Los Angeles.
51. L. Carlson, H. Nagendra, G. Green and C.M. Schweik. (2002). A methodology for identifying institutional arrangements using remote sensing and GIS. *98<sup>th</sup> Annual Meeting of the Association of American Geographers*, 23-29 March, Los Angeles.
52. J. Southworth, H. Nagendra and C.M. Tucker. (2002). Forest Cover Change in a Western Honduras Community: Accessibility and Protection as Determinants of Landscape Transformation. *Working Forests in the Tropics: Conservation through Sustainable Management*, February 25-26, University of Florida, Gainesville.
53. J. Southworth, H. Nagendra and C.M. Tucker. (2001). Using landscape metrics to interpret land cover change in Western Honduras and to monitor infringement into Celaque National Park. *86<sup>th</sup> Annual Meeting of the Ecological Society of America*, 5-10 August, University of Wisconsin, Madison, Wisconsin.
54. C.M. Tucker, J. Southworth and H. Nagendra. (2001). Environmental and social processes contributing to reforestation trends in Western Honduras. *Global Change Open Science Conference*, 10-13 July, Amsterdam, The Netherlands.
55. H. Nagendra, J. Southworth and C.M. Tucker. (2001). Using landscape metrics to interpret trajectories of land cover change: A case study in Western Honduras. *16<sup>th</sup> Annual Symposium of the U.S. Chapter of International Association of Landscape Ecology*, pp. 177 (25-29 April, Arizona State University, Tempe, Arizona).
56. H. Nagendra. (2000). Assessing the influence of patch type in determining patch structure: Studies in the Western Ghats, India. *Multifunctional Landscapes: Interdisciplinary Approaches to Landscape Research and Management*, ed. J. Brandt, B. Tress and G. Tress, pp. 217 (18-21 October, Roskilde). Centre for Landscape Research, Roskilde, Denmark.
57. H. Nagendra. (2000). Comparing indices of ecotope and landscape structure derived from supervised and unsupervised classification: Studies in the Western Ghats of India. *International Archives of Photogrammetry and Remote Sensing*, Vol. XXXIII, Part B7, 955-961 (Proceedings of the 19<sup>th</sup> ISPRS Congress, 16-23 July, Amsterdam).
58. H. Nagendra and M. Gadgil. (1999). Ecological analysis and modeling: Issues and challenges. *International Society for Photogrammetry and Remote Sensing Commission VII, Working Group 2 - Application of Remote Sensing and GIS for Sustainable Development*, 8-14 (11-13 March, Dehradun). ISPRS Working Group VII/2 and National Remote Sensing Agency, Hyderabad, India.



## Lectures and invited talks

2016

- Urban commons: citizen action and sustainability. Aikyam sustainable living weekend conversation series, Atta Galatta Bangalore, 20 August.
- Nature in the city: Bengaluru in the past, present, and future. Kaikondrahalli lake amphitheatre, Bangalore, 7 August.
- Nature in the city: Bengaluru in the past, present, and future. Azim Premji University Faculty Seminar Series, Bangalore, 3 August.
- Nature in the city: Bengaluru in the past, present, and future. Good Earth Tarana, Bangalore, 23 July.
- Nature in the city: Bengaluru in the past, present, and future. Indegene Life Sciences, Bangalore, 21 July.
- Nature in the city: Bengaluru in the past, present, and future. Azim Premji University Advanced Graduate Workshop, Bangalore, 13 July.
- Nature in the city: Bengaluru in the past, present, and future. YOUth LEADers 2016, Office of Rajya Sabha MP Rajeev Gowda, 25 June.
- Nature in the city: Bengaluru in the past, present, and future. Book launch, Alliance Francaise Bangalore, 10 June.
- Landscaping resilience and change in an Indian metropolis. RV College of Architecture, Bangalore, 4 April.
- Nature in the city: Bengaluru in the past, present, and future. Zoological Society London, 18 March.
- Nature in the city: Bengaluru in the past, present, and future. Royal Holloway College, London, 16 March.
- Nature in the city: Bengaluru in the past, present, and future. Bartlett Development Planning Unit, University College London, 14 March.
- Biodiversity in Bangalore: Resilience and change in an Indian metropolis. Centre for Biodiversity and Environment Research, University College London, 14 March.
- Lakes and trees of Bengaluru: Creating an ecologically smart city. Bruhat Bengaluru Mahanagara Palike Malleswaram, Bangalore, 5 March.

2015

- Nature in the city: Changes in Bengaluru over space and time. At Microsoft Research Centre, Bangalore, 14 November.
- Ecological and environmental changes in Bangalore from 6<sup>th</sup> century AD until now. At National Public School Indiranagar, Bangalore, 31 October.
- Mapping new knowledge and integrating it into the Indian syllabus for higher education. At Centre for Contemporary Studies, Indian Institute of Science, Bangalore, 3 October.
- Biodiversity in the city: Importance for sustainable development. At Christ University, Bangalore, 28 August.
- Biodiversity in urban settings. At WIPRO: Confederation of Indian Industry meet, Bangalore, 27 August.
- Biodiversity in urban settings: resilient, ecologically smart cities. At Indian Institute of Human Settlements, Bangalore, 20 August.
- Environment in Bangalore (In Kannada). At the Parisara Ghoshti (Environment Discussion), Second Kannada Sahitya Sammelana of the Bommanahalli Kannada Sahitya Parishat, Bangalore, 10 July.
- Nature in the city: Bengaluru. At Rotary Club, Koramangala, Bangalore, 12 June.
- Tree planting in Bengaluru. At Indian Institute of Engineers, Bangalore, 10 June.
- Transformations of urban commons in Bengaluru. With Seema Mundoli and B. Manjunatha. At World Environment Day Celebrations, Bangalore, 2 June.
- Nature in the city: Bengaluru past, present, future. Panel presentation at Multiplicity: Diversity in Bangalore's heritage. British Council, organised by Rereethi, Bangalore, 24 April.
- Monitoring trees in Bengaluru. Vruksha.com launch at NMKRV College, Bangalore, 31 January.

2014

- Space and the cooperative governance of urban commons. Centre for Contemporary Studies, Indian Institute of Science, Bangalore, 11 November.
- Deforestation and urbanization: sustainability and change in Indian cities and forests. World Resources Institute, Bangalore, 13 May.
- People and biodiversity in Bengaluru. Bengaluru Needs You, Bangalore, 12 May.
- Conservation in forests and cities: challenges of collective action. International Centre for Mountain Development (ICIMOD), Kathmandu, 3 April.
- People and biodiversity in Bengaluru. Neralu: Tree Festival, Bangalore, 8 February.
- Collective action for conservation of lakes in Bengaluru. Bhoomi College, Bangalore, 7 February.
- Trees and people in Bengaluru. Bhoomi College, Bangalore, 6 February.
- Remote sensing applications for conservation. Keynote Address, Synergy 2014, Jyothi Nivas College, Bangalore, 4 February.

## 2013

- Deforestation and Urbanization: Sustainability and Change in Indian Cities and Forests. Public Lecture, Macalester College, Saint Paul Minnesota, 30 October.
- Deforestation and Urbanization: Sustainability and Change in Indian Cities and Forests. Public Lecture, Carleton College, Northfield Minnesota, 2 October.
- Graying and Greening in Bangalore: Impacts of Urbanization on Ecology. Department of Political Science, Carleton College, Northfield Minnesota, 2 October.
- Graying and Greening in Bangalore: Impacts of Urbanization on Ecology. Jan Serie Center for Scholarship and Teaching, Macalester College, Saint Paul Minnesota, 30 September.
- The Challenge of Collective Action: Ecological Restoration by People in Forests and Cities. Nehru Memorial Museum and Library, Delhi, 24 May.
- Mapping and Community Efforts in Saving Lakes. Save Bangalore's Lakes - The Alternative and Korkai, Bangalore, 10 May.
- People and Plants in Bangalore. Indian Urban Biodiversity Workshop, National Centre for Biological Sciences, Bangalore, 7 May.
- Human-Nature Interactions: Impact on Sustainability in Cities and Forests. Azim Premji University, Bangalore, 26 April.
- Human-Nature Interactions: Drivers and Outcomes of Land Change in India. Macalester College, Saint Paul, Minnesota, 3 April.
- Introduction to Remote Sensing Applications. Department of Geography, Macalester College, Saint Paul, Minnesota, 3 April.
- Heterogeneity in Access to Benefits: Fine Scale Challenges for Ecosystem Service Valuation and Prioritization. With Hita Unnikrishnan, Diversitas EcoServices Meeting, Paris, 28 March.
- Education and Conservation. Keynote address, National Conference on 'Green Wealth – A Strategy for Health', Mount Carmel College, Bangalore, 27 February.
- Collective Action: Innovation in the Context of Conservation, Fidelity India, Bangalore, 5 February.

## 2012

- Biofuels and Biodiversity: A Global Perspective. Seminar on BioFuel Plantations, Bharathi Vidya Bhavan, Bangalore, November 7.
- Developing Science-Based Knowledge for Sustainable Biodiversity Management: Perspectives from India. DIVERSITAS side-event "How integrated science can support the goals of the Rio Conventions". 11<sup>th</sup> Conference of Parties of the Convention on Biological Diversity, Hyderabad, October 9.
- Nature in the City: How People Shape, and Are Shaped by Biodiversity in Bangalore. Nature in the City – Showcasing Biodiversity in Bangalore, Bangalore, October 4.
- Urban Green Spaces of Bangalore: Biodiversity and Ecosystem Services. Department of Environmental Sciences, Mount Carmel College, Bangalore, August 31.
- Conservation in Urban Environments. ATREE Seminar Series, Bangalore, July 9.
- Human-Nature Interactions and their Impact on Sustainability. First Ramanujan Fellows Meeting, Department of Science and Technology, Pune, May 6.

- Urban Environment and Ecology of Bangalore. Chief Guest Presentation at Rotary Club Bangalore South, Bangalore, April 18.
  - T.S. Narayana Rao Memorial Lecture on Urban Ecology – Challenges of Urban Conservation in Bangalore. 27<sup>th</sup> National Convention of Architectural Engineers, Indian Institution of Engineers, Bangalore, March 6.
  - Urban Green Spaces of Bangalore – Biodiversity and Ecosystem Services. Center for the study of Sustainable Transport, infrastructure and Urban Planning (CiSTUP), Indian Institute of Science, Bangalore, January 10.
- 2011
- Greening or Graying the City? Urban Biodiversity and Challenges of Urban Conservation. ATREE Seminar Series, Bangalore, August 10.
  - Urban Ecosystems. Confederation of Indian Industries, Bangalore, March 16.
  - Urban Ecosystems: Critical Ecological Resources. Indian Institution of Engineers, Bangalore, January 21.
  - Conservation in South Asian Forests: Challenges of Collective Action. South Asia Exchange Programme – Common Property Resource, Hyderabad, January 8.
- 2010
- Conservation in Forests and Cities. Bangalore International Center, Bangalore, 26 November.
  - Urban Forests: A Critical Ecological and Environmental Resource. Vruksha: Inauguration of Web Portal for Participatory Mapping of Bangalore’s Street Trees, Bangalore, 10 October.
  - Conservation in Forests and Cities: Challenges of Collective Action. Indian Institute of Management, Bangalore, 30 June.
  - Urban Ecology Research. National Institute of Advanced Studies, Bangalore, March 23.
  - Our Forests, Our Future. Infosys Sustainability Series, Bangalore, 5 March.
  - Street Trees of Bangalore: A Critical Ecological and Environmental Resource. Center for the study of Sustainable Transport, infrastructure and Urban Planning (CiSTUP), Indian Institute of Science, Bangalore, 16 February.
  - Drivers of Reforestation in the Human Dominated Landscapes of South Asia. Stockholm Resilience Center, Stockholm, 10 February.
  - Street Trees of Bangalore. ATREE Public Seminar on Urban Ecology, Bangalore, 30 January.
- 2009
- Bangalore – Urban Atlas. Urban Social-Ecological Systems and Urbanization – International Workshop, Kirstenbosch Botanical Garden, Cape Town, South Africa, 17 October.
  - Green Spaces, Biodiversity, and Institutions in Bangalore: First Experiences with the Urban Atlas. Stockholm Resilience Center and ATREE – Urban Atlas Meeting, Bangalore, 19 February.
- 2008
- Reforesting Landscapes: Pattern and Process. Swiss Federal Institute of Technology (ETH), Zurich, 15 December.
- 2007
- Drivers of Reforestation in Human Dominated Forests. ATREE Seminar Series, Bangalore, 31 May.
- 2006
- Can’t see the Forest or the Trees! How Societal Lenses Impact Pixellated Views of the World. Center for Contemporary Studies, Indian Institute of Science, Bangalore, 13 October.
  - Deforestation or Regrowth? A Journey into the Tropical Forests of South Asia. Swiss Federal Institute of Technology (ETH), Zurich, 19 January.
- 2005
- Piecing Together the South Asian Landscape. Collegium Budapest: Institute for Advanced Study, Budapest, 16 September.
  - Integrating Society in Science. Swiss Federal Institute of Technology (ETH), Zurich, 24 January.
- 2004

- Science and Society – Integrating Social and Ecological Perspectives on Forest Conservation. Towards a Co-Evolution of Science and Society: Indian National Science Academy Seminar, Chennai, 27 December.
  - Developing an Interdisciplinary Research Program on Institutions and Forest Change in Nepal. Strategy Building Workshop for the Eastern Himalayas Programme, ATREE, Jaldapara Wildlife Sanctuary, 16 December.
  - Decentralization in Nepal: Forest Changes Across Time and Space. ATREE Seminar Series, Bangalore, 7 July.
  - Trees, People, Pixels: Human-Forest Interactions in the Tropics. Indian Academy of Sciences Fifteenth Mid-Year Meeting, Indian Institute of Science, Bangalore, 2 July.
  - Remote Sensing for Biodiversity Conservation: Developing Methods for the Tropics. Symposium on Conservation of India's Biological Diversity, Indian Institute of Science, Bangalore, 31 May.
  - Human-Forest Interactions in the Tropics. Wissenschaftskolleg zu Berlin Institute for Advanced Study, Berlin, 28 April.
  - Peopling the Remote: Linking Remote Sensing with Field Studies to Investigate the Human Dimensions of Forest Change. Swiss Federal Institute of Technology (ETH), Zurich, 29 January.
- 2003
- Contextualizing the Remote: Exploring Process/Pattern Linkages. Land Use and Environmental Change Institute Colloquium Series, University of Florida, Gainesville, Florida, 21 February.
  - From the Local to the Regional: Institutions, Policies and the Human Dimensions of Forest Conservation. ATREE, Bangalore, 2 January.
- 2002
- Cutting Across Space and Time: Analyzing Changes in Forest Cover and Biodiversity in Mountainous Developing Areas. School of Environment, Resources and Development, Asian Institute of Technology, Bangkok, Thailand. 4 September.
  - Using Remote Sensing to Search for "Institutional Anomalies" in Forest Management: A Case Study in Nepal. Meeting of the International Forestry Resources and Institutions (IFRI) Research Network, Kenya Forestry Research Institute, Nairobi, Kenya, (with C.M. Schweik and D.R. Sinha), 27 June.
  - Locating a Needle in a Haystack? The Search for Spatial Anomalies in Nepal. National Science Foundation External Board Review, Center for the Study of Institutions, Population, and Environmental Change (CIPEC), Indiana University, Bloomington, Indiana, 4 April.
  - Cross Continental Comparisons: Africa and Asia. Center for the Study of Institutions, Population, and Environmental Change (CIPEC) Colloquium Series, Indiana University, Bloomington, Indiana, (with J. Unruh), 20 February.
  - Linking Process with Pattern: Roads, Terrain and Landscape Dynamics. Center for the Study of Institutions, Population, and Environmental Change (CIPEC) Open Forum, Indiana University, Bloomington, Indiana, 14 February.
  - Monitoring Human Impacts on Land Cover Change in Developing Countries: Forging Integrated Approaches. Center for Interdisciplinary Studies in Environment and Development – ATREE Seminar Series, Bangalore, 10 December.
- 2001
- Accessibility and Protection as Determinants of Landscape Transformation in Western Honduras: Linking Pattern and Process. Environmental Science Seminar, School of Public and Environmental Affairs (SPEA), Indiana University, Bloomington, Indiana, (with J. Southworth and C.M. Tucker), 4 October.
  - Fragmentation of a Landscape. Center for Ecological Sciences Seminar Series, Indian Institute of Science, Bangalore, (with J. Southworth and C.M. Tucker), 9 April.
- 2000
- Incorporating Landscape Transformation into Local Conservation Prioritization: A Case Study in the Western Ghats, India. Center for the Study of Institutions, Population, and Environmental Change (CIPEC) Colloquium Series, Indiana University, Bloomington, Indiana, 20 November.

## Grants

- 2015- PI, Faculty Small Grant, Azim Premji University on 'Historical transformations of the  
2017 urban commons in Bangalore: Mapping changes in distribution, livelihood and cultural use, and governance.'
- 2015- PI, Research Grant, Azim Premji University on 'Urbanization in Bengaluru city:  
2017 Transformations of the commons.'
- 2011- PI, USAID grant 'Institutional dynamics of adaptation to climate change and  
2015 urbanization: analysis of rain fed agricultural-urban lake systems in Bangalore, India.'
- 2014 PI, Indo US Science and Technology Foundation grant for supporting Indo-US bilateral workshop on 'Adaptation of rural communities to climate change: Bridging the gap between academia and community workers and identifying research needs.'
- 2011- PI, SANDEE grant 'Conservation in a tightly coupled, fragile social-ecological system:  
2013 investigating community inputs and forest outcomes in central India.'
- 2011- PI, National Geographic Society grant 'Urban biodiversity hotspots: Institutions and  
2013 sacred spaces in Bangalore.'
- 2010- Co-PI, European Union FP7 grant 'Biodiversity Multisource Monitoring System: from  
2013 Space to Species (BIO\_SOS).'
- 2009- PI, Ramanujan Fellowship, Department of Science and Technology, Government of  
2014 India
- 2009 PI, Stockholm Resilience Center grant 'Urban Ecosystem Services Mapping and Atlas.'  
2007 PI, International Foundation for Science grant 'Mapping 30 Years of Urban Land Cover Change in Bangalore: Linking People and Pixels.'
- 2007 - Co-PI, European Union grant 'Land Use Policies and Sustainable Development in  
2009 Developing Countries (LUPIS).'
- 2003 - PI, Society in Science: Branco Weiss Fellowship, Swiss Federal Institute of Technology,  
2008 Zurich, for interdisciplinary society-science research.
- 2006 PI, National Geographic Society grant 'Institutions, Land Use and Biodiversity -  
Developing a Landscape Framework for Conservation in the Eastern Himalayas.'
- 2005 Travel grant, First DIVERSITAS International Conference on Biodiversity, Oaxaca,  
Mexico.
- 2005 Writing and travel grant, Wissenschaftskolleg zu Berlin, 'Investigating the Reforestation  
Landscape: Pattern, Process, and the Role of Collective Action.' March 15 - May 15.
- 2003 Travel grant, Asia-Pacific Network for Global Change Research, First Young Scientists  
Global Change Conference, 16-19 November 2003, Trieste, Italy.
- 2000 Travel grant, International Society for Photogrammetry and Remote Sensing, 19<sup>th</sup> ISPRS  
Congress, 16-23 July 2000, Amsterdam.

## Teaching

Understanding Land Use/Land Cover Change: Perspectives from Sustainability, Azim Premji University.  
Sustainability in Practice and Planning, Azim Premji University  
Sustainability - An Interdisciplinary Exploration, Azim Premji University  
Ecology and Development, Azim Premji University  
Introduction to Remote Sensing. Macalester College, Saint Paul, Minnesota  
Land Change Science in the Global South. Macalester College, Saint Paul, Minnesota  
Introduction to GIS and Remote Sensing. ATREE, Bangalore

## Other Professional Service

*Current Senior Editor: Remote Sensing for Ecology and Conservation*

*Senior Associate Editor: Conservation Letters*

### **Editorial Board:**

*Ecology and Society*

*Current Opinion in Environmental Sustainability*

*Regional Environmental Change*

*LAND*

*Journal of Land Use Science*

*Urban Forestry & Urban Greening*

- Current* Jury member, Elinor Ostrom Award for Collective Governance of the Commons
- Current* Jury member, WIPRO earthian Sustainability program for schools and colleges
- 2016 Guest editor, special section of *Current Science* on 'Climate Change Impacts and Adaptation', April 10<sup>th</sup> (with Pinki Mondal and Ruth DeFries, Columbia University).
- 2016 Convenor, URBIS (Urban Biosphere Initiative) Dialogue 8: The urban commons: the many ways in which nature in the city serves as a commons resource, not just a private. International Webinar, January 14.
- 2016 Chair, Session on "Smart Cities, but for Whom? The Loss of the Commons and Urban Vulnerability." With S. Mundoli and H. Unnikrishnan, 8<sup>th</sup> Biennial Indian National Society for Ecological Economics (INSEE) Conference on Urbanization and the Environment, Bangalore, January 6.
- 2015 Chair, Session on "Transformations in Ecosystem Services due to Urbanization." With D. Maddox, Program on Ecosystem Change and Society (PECS) 2015 Conference, Stellenbosch, South Africa, November 5.
- 2014 Member, Scientific Advisory Committee (SAC) for Indian Society for Ecological Economics' 8th Biennial Conference, on Urbanization and the Environment
- 2014 Participant, What is Urban? Workshop, Taipei, November 5.
- 2014 Co-Chair, Round Table on "Resilience in the Landscape: Improving Human Well-Being." With D. Maddox and T. Elmqvist. *2nd International Conference on Urbanization and Global Environmental Change (UGEC)*, Taipei, November 8.
- 2014 Guest Editor, *Current Conservation Special Issue: Urban Ecology (Volume 8.2)*. With M. Tengö, M. Schewenius, M. Katti and T. Elmqvist. Published July 2014.
- 2013 Jury member, Prof. Elinor Ostrom International Fellowship on Practice and Policy on Commons 2013, awarded by International Association for Study of Commons and Foundation for Ecological Security
- 2012 Jury member, WIPRO earthian Sustainability program for schools and colleges
- 2012 Chair, Science Program Committee, Biodiversity Asia 2012: 2nd Asia Regional Conference of the Society for Conservation Biology - Asia Section, Bangalore
- 2009 Member, Task Force for making Recommendations to the Government for Strengthening the Botanical and Zoological Surveys of India, Government of India
- 2006-7 Nominations Committee, International Association for the Study of the Commons
- 2006 Editorial Board Member, *Agriculture, Ecosystems and Environment*
- 2006 Graduate Program Coordinator, ATREE-Manipal University PhD. program
- 2006 Co-organizer and Chair, panel on "*Balancing Conservation Objectives with Human Needs: Tradeoffs in Protected Area Management*" at 11<sup>th</sup> Biennial Conference of the International Association for the Study of Common Property, Bali, Indonesia, 19-23 June. Co:Chair: Arun Agrawal
- 2006 Guest editor, *Applied Geography*, special issue "*Do Parks Work? Examining Tradeoffs in Protected Area Conservation*". Collaborators: Jane Southworth, University of Florida; Darla Munroe, Ohio State University
- 2005 Co-Organizer and Chair, panel on "*Remote Sensing for Biodiversity Assessment*" at the First DIVERSITAS International Conference on Biodiversity, Oaxaca, Mexico, 9-12 November. Co-Chair: Donald Potts
- 2005 Co-organizer and Chair, panel on "*Contextualizing the Pixel: Comparing Continuous and Discrete Methods for Regional Studies of Human Dimensions on Land-Use/Cover Change (LUCC) Research*", at the 6<sup>th</sup> Open Meeting of the Human Dimensions of Global Environmental Change Research Community, University of Bonn, Germany, 9-13<sup>th</sup> October. Co: Chairs: Jane Southworth and Darla Munroe
- 2004 Guest Editor, *Agriculture, Ecosystems and Environment*, special issue "Landscape Fragmentation and the Analysis of Land Use/Land Cover Change: from Pattern to Process" Vol. 101 (Issues 2-3). Collaborators: Darla Munroe, University of North Carolina; Jane Southworth, University of Florida
- 2004 Organizer and Chair, "*Are Parks Working? Exploring Tradeoffs in Protected Area Conservation*", Special Sessions I, II, III and IV at the 100<sup>th</sup> Annual Meeting of the Association of American Geographers, 14-19 March, Philadelphia. Co-chairs: Darla Munroe and Jane Southworth
- 2003 Member, DIVERSITAS science and implementation plan scoping meeting: Core Project 1 "*Discovering Biodiversity and Predicting its Changes*", 19-21 March, Paris, France

- 2002 Co-chair, Special Session on “*Landscape Fragmentation and the Analysis of Land Use/Land Cover Change: From Pattern to Process*”, Sessions I - III, 98<sup>th</sup> Annual Meeting of the Association of American Geographers, 23-29 March, Los Angeles. Chair: Darla Munroe
- 1994 - Core member, Western Ghats Biodiversity Network: design, training, coordination  
1997 and execution of a decentralized program of landscape mapping and biodiversity assessment involving over 50 researchers

### **PhD. Advisees**

#### *Chair/Co-Chair*

Shivani Agarwal, ATREE  
Hita Unnikrishnan, ATREE (submitted July 2016)  
Madhura Niphadkar, ATREE (submitted July 2016)  
Somajita Paul, ATREE (defended February 2016)

#### *Committee member*

Sanchayan Nath, Indiana University  
Amit Kurien, ATREE  
Preethi Gururaja, ATREE  
Neesha Dutt, National Institute of Advanced Studies, Bangalore  
NS Nalini, National Institute of Advanced Studies, Bangalore  
Arundhati Das, ATREE (defended October 2015)  
Savitha Swamy, ATREE (defended January 2013)  
Kavitha Nair, ATREE (defended May 2012)  
Sanchayeeta Adhikari, University of Florida (defended March 2011)  
Pinki Mondal, University of Florida (defended December 2010)

### **MSc. Advisees**

Akshatha Murthy, Bangalore University (completed May 2010)  
Sajid Pareeth, Stuttgart University (completed May 2009)  
Vani Kaleeswari, PSG College Engineering and Technology Dindigul (completed June 2008)  
Divya Gopal, Greifswald University (completed September 2012)  
Lionel Sujay Vailshery, Manipal University (completed May 2012)  
Rajesh Uphadhyaya MN, Manipal University (completed May 2012)