

Duccio Rocchini



Title: Dr., PhD
Born in Siena, August 29th 1975

Edmund Mach Foundation
IASMA Research and Innovation Centre
Environment and Natural Resources Area
GIS and Remote Sensing Unit
Via Mach 2, 38010 San Michele all'Adige (TN) - Italy
Phone +39 0461 6151570 - Fax + 39 0461 650956

--
duccio.rocchini@iasma.it
ducciorocchini@gmail.com
<http://gis.fem-environment.eu/rocchini/>

- Research interests -

- Ecological heterogeneity and biodiversity estimate by satellite imagery
- Change detection of spatial patterns and related ecological processes
- Statistical analysis of spatial data
- Fuzzy set theory and land use mapping
- Ecological Informatics

- Current position -

Since October 1st 2011: Researcher, Edmund Mach Foundation, GIS and Remote Sensing Unit. Unit Chief: Markus Neteler

- Scientific career -

October 1st 2009 – September 30th 2011: Post-doc in data analysis and modelling of interaction between ecological, environmental and genetic variables. IASMA Research and Innovation Centre, Edmund Mach Foundation, GIS and Remote Sensing Unit. Unit Chief: Markus Neteler.

2007-2009: Post-doc “Plant diversity estimate by satellite imagery”, Faculty of Mathematical, Physical and Natural Science, University of Siena, Italy

2005-2006: Post-doc “Quantitative approaches for estimating landscape diversity by remotely sensed imagery”, Dpt. Environmental Science, University of Siena, Italy, Unit Chief: **Alessandro Chiarucci**

2005: University of Bremen, Institut für Ökologie und Evolutionsbiologie (Germany), Visiting researcher, September 2005

2004-2005: GIS Analyst, Programmer, Vector Citec, Italy

- Education and Training -

2002-2003: Analyst at the Military Institute of Geography (IGM, Italy)

2002: Post-graduate course in Landscape Analysis, University of Naples Federico II

2001: Post-graduate course in "Geographical Information Systems and Thematic Cartography " (Tuscany Region, University of Siena, full marks)

2001-2004: PhD Student (top one placing) in “Sciences and technologies applied to the environment” at the University of Siena, concerning Remote Sensing and GIS analyses applied to the environment (PhD achieved in May 31st 2005), tutor: Prof. Alessandro Chiarucci.

2000: MSc Graduation in Natural Sciences at the University of Siena, Italy (Mark: 110/110 cum laude, December 14th 2000)

1994: Secondary scientific school-leaving certificate

- Member of panels for projects evaluation –

- **Reviewer of the National Geographic Society** (August 2011). The Research, Conservation and Exploration Grant.
- **Advisory panel member, UncertWeb project** (September 2011). Project Leader, Aston University, UK.
- Steering Committee, UNESCO-WH WATCH PROJECT (August 2010), Research Programme for Earth Observation - STEREO II, Belgian Science Policy Office, Belgium
- Reviewer of Belgian Earth Observation proposals (from April 2010 to August 2011), Belgian Science Policy Office

- Editor & Referee activity –

- International Editorial Advisory Board Member, Progress in Physical Geography [IF: 2.28]
- **Associate Editor, Journal of Vegetation Science** [IF: 2.452]
- **Associate Editor, Applied Vegetation Science** [IF: 1.802]
- **Guest Editor**, Special Issue on “Ecological Status and Change”, Remote Sensing
- **Guest Editor**, Special Issue on "Geospatial Monitoring and Modelling of Environmental Change", ISPRS International Journal of Geo-Information, open access official journal of the International Society for Photogrammetry and Remote Sensing

- Referee **Global Ecology and Biogeography** [IF: 5.273]
- Referee **Conservation Biology** [IF: 4.894]
- Referee **Ecography** [IF: 4.417]
- Referee **Journal of Biogeography** [IF: 4.273]
- Referee **Diversity and Distributions** [IF: 4.248]
- Referee **Remote Sensing of Environment** [IF: 3.951]
- Referee **Environmental Pollution** [IF: 3.395]
- Referee **Landscape Ecology** [IF: 3.200]
- Referee **Biogeosciences** [IF: 3.587]
- Referee **Biological Conservation** [IF: 3.498]
- Referee **Journal of Environmental Management** [IF: 2.596]
- Referee **Journal of Vegetation Science** [IF: 2.452]
- Referee **Landscape and Urban Planning** [IF: 2.004]
- Referee **Biodiversity and Conservation** [IF: 2.146]
- Referee **Ecological Modelling** [IF: 1.769]
- Referee **Plant Ecology** [IF: 1.880]
- Referee **Acta Oecologica** [IF: 1.460]
- Referee **International Journal of Geographical Information Science** [IF: 1.469]
- Referee **IEEE Geoscience and Remote Sensing Letters** [IF: 1.420]
- Referee **Applied Vegetation Science** [IF: 1.802]
- Referee **Ecological Informatics** [IF: 1.351]
- Referee **International Journal of Remote Sensing** [IF: 1.182]
- Referee **Journal of Earth System Science** [IF: 0.941]
- Referee **Community Ecology** [IF: 0.974]
- Referee **Wetlands Ecology and Management**
- Book reviewer, **Isprs Highlights**

- Book reviewer, **Ecoscience** [IF: 1.589]
- Book reviewer, **The Photogrammetric Record** [IF: 0.925]
- **2008 IEEE International Geoscience & Remote Sensing Symposium** Reviewer
- **2009 IEEE International Geoscience & Remote Sensing Symposium** Reviewer
- **2010 IEEE International Geoscience & Remote Sensing Symposium** Reviewer

- Organization of meetings and conferences -

- **Convener**, Landscape functionality and conservation management: sustainable strategies for environmental planning Session, **European Geosciences Union (EGU) General Assembly 2012**, Vienna, Austria 22 – 27 April 2012 (General Convener: F. Gobattoni)
- **Chairman**, Spatial Ecology Session, 1.7th ECEM (European Conference on Ecological Modelling), Riva del Garda, 30 May-1 June 2011
- **Chairman**, Landscape Ecology and Biogeography Session, German Society of Ecology, GfÖ 40th Anniversary Meeting 2010, Giessen, August 30th - September 3rd 2010
- **Chairman**, International Conference on Biodiversity Conservation as a Renewable Resource, Rawalpindi-Islamabad, March 13-14 2007
- **Chairman**, Remote Sensing Oral Session, 91st Ecological Society of America (ESA) Annual Meeting, Memphis Tennessee, August 6-11 2006

- Congress participation as speaker -

- 2011: 7th ECEM (European Conference on Ecological Modelling), Riva del Garda, 30 May-1 June 2011.
- 2011: 12° Meeting degli Utenti Italiani GRASS e GFOSS, Trento, 9-11 Febbraio 2011
- 2010: 7th International Conference on Ecological Informatics. Ghent, Belgium. December 13th-16th, 2010
- 2010: German Society of Ecology, GfÖ 40th Anniversary Meeting 2010, Giessen, August 30th - September 3rd 2010
- 2010: 9th Meeting on Vegetation Databases, University of Hamburg, February 24-26 2010
- 2007: XVII Congresso Nazionale S.It.E., Ancona, 17-20 Settembre 2007
- 2007: International conference “Monitoring the Effectiveness of Nature Conservation”, Swiss Federal Research Institute WSL, Switzerland, September 3-6 2007
- 2007: International Conference on Biodiversity Conservation as a Renewable Resource of Pakistan, University of Arid Agriculture, Rawalpindi-Islamabad, Pakistan (March 13-14 2007)
- 2007: Workshop "Telerilevamento e spazializzazione nel monitoraggio forestale e ambientale per la difesa degli ecosistemi", Isernia, Italy (23-24 January 2007)
- 2006: Ecological Society of America Annual Meeting, Memphis Tennessee (August 6-11 2006)
- 2005: 15th National Congress of the Italian Ecological Society , Torino (12-14 Settembre 2005)
- 2004: 14th National Congress of the Italian Ecological Society , Siena (4-6 Ottobre 2004)
- 2004: 47th Symposium of the International Association of Vegetation Science, Kona - Hawaii, USA (July, 18-25 2004)
- 2004: Seminar “Innovazioni in geomatica e telerilevamento per applicazioni in ambito forestale”, Firenze
- 2003: 7a Conferenza ASITA, Verona (October, 28-30 2003)
- 2003: 4th European Congress on Regional Cartography and Information Systems, Bologna
- 2002: 12th National Congress of the Italian Ecological Society, Urbino (September, 16-18 2002)
- 2001: First International Workshop on the Analysis of Multitemporal Remote Sensing Images, Trento (September, 13th-14th 2001)

- Research awards -

- 2011: **Earth and Space Foundation (NASA Panel) award**

- Main research grants -

- 2009-2010: **Spatial Analysis work-package fellow** (current Post-Doc position), Edmund Mach Foundation, S. Michele all'Adige, Trento
 - Project: Ace-Sap (Alpine Ecosystems in a Changing Environment: Biodiversity Sensitivity and Adaptive Potential)
 - Funding: Provincia Autonoma di Trento
 - Project Principal Investigator: Prof. David Neale, University of California, Davis, US
 - Project time span: 3 anni
 - Project total amount: available **3M €**
- 2005-2007: **Chair of the GIS and Remote Sensing Group**, University of Siena, Dpt. Environmental Science
 - Project: Methods for individuating and conserving geosites in the Siena Province
 - External Funding: Fondazione Monte dei Paschi di Siena
 - Project Principal Investigator: Prof. Vincenzo De Dominicis
 - Project time span: 3 years
 - Project total amount: **480k €**
- 2006-2007: **Chair of the GIS and Remote Sensing Group**, University of Siena, TerraData environmetrics (spin-off)
 - Project: Biomonitoring net within the Thermoelectric Central of Turbigo (Milan).
 - External Funding: Edipower, University of Torino (Italy)
 - Project Principal Investigator: Dr. Giorgio Brunialti
 - Project time span: 2 years
 - Project total amount: **70k euros**
- 2006-2007: **Research Assistant**, University of Siena, Dpt. Environmental Science
 - Project: Monitoring Ozone in Forests of South-Western Europe
 - External Funding: European Union (EU, UN/ECE)
 - Project Principal Investigator: Dr. Marco Ferretti
 - Project time span: 2 years
 - Project total amount: **80k €**
- 2005-2007: **Research Assistant**, University of Siena, Dpt. Environmental Science
 - Project: Monitoring of Biodiversity in Site of Community Importance (NATURA2000 Network, MoBiSIC)
 - External Funding: Province of Siena
 - Project Principal Investigator: Prof. Alessandro Chiarucci
 - Project time span: 3 years
 - Project total amount: **130k €**
- 2000-2001: **Graduate Assistant**, University of Siena, Dpt. Environmental Science.
 - Project: MONITO 3: Integration of Monitoring Activities and Development of Operational Techniques for Spatial Modeling – Biodiversity Area
 - External Funding: European Community under the regulation UE n. 3528/86 and 307/87
 - Project Principal Investigator: Dr. Alessandro Chiarucci
 - Project time span: 2 years
 - Project total amount: **150k €**

- Teaching activity –

PhD research support for the following PhD students:

- Rosa Manrique (University of Bologna, Italy)
- Anne Ghisla (Fondazione Edmund Mach, Italy, judging commission member), from 2010
- Jens Oldeland (University of Hamburg, German Aerospace Center, Germany), 2008-2009
- Elisa Santi (University of Siena, Italy), 2007-2009
- Valerio Amici (University of Siena, Italy), 2007-2009
- Francesco Geri (University of Siena, Italy), 2006-2008

Thesis and job training supervision of the following students:

- 2010 (University of Siena - Fondazione Edmund Mach)
 - Matteo Marcantonio, job training on orthorectification and image classification
 - Roberta Covi, thesis argument: Landscape Genetics and Bayesian statistics

- (in progress)
- 2004 – 2009 (*University of Siena*)
 - Arianna Vannini, job training on orthorectification of digital imagery
 - Andrea Billi, thesis argument: distance decay of species and spectral similarity
 - Elena Santoro, thesis argument: distance decay of species and spectral similarity
 - Elisa Santi, thesis argument: cross-taxon congruence for biodiversity estimate
 - Giulia Bennati, thesis argument: generalized linear models for biodiversity prediction
 - Ilaria Cirillo, thesis argument: species and spectral rarefaction for biodiversity estimate by satellite imagery
 - Jonas Tundo (University of Leuven, Belgium), thesis argument: ecological determinants of badland species composition
 - Mariangela Salerno, thesis argument: multitemporal analysis of aerial imagery for landscape change detection
 - Domenico Biagio Perrotta, thesis argument: rarefaction theory and spatial autocorrelation of species composition
 - Alessandro De Gianni, thesis argument: diversity partitioning
 - Sara Ghisleni, thesis argument: measures of community diversity

Lecturer within the following Institutions:

Institut für Statistik, Ludwig-Maximilians-Universität Muenchen (Germany)

- Lecturer in:
 - Spatial Analysis by GRASS GIS (October 9th-10th 2010)

University of Siena (Italy)

- Lecturer in:
 - Thematic Cartography for Environmental Science (2003-2010, 40h per year)
 - Landscape Ecology (2007-2008, 16h per year)
- Short lectures at Master level:
 - Analysis and use of vegetation data, Vegetation Cartography (2007)

University of Florence (Italy)

- Lecturer in:
 - GIS- based analysis applied to spatial variability (2003-2008)

Università della Calabria (Italy)

- Lecturer in:
 - Landscape Change (2004)

- Invited Lectures and Seminars -

VITO (Belgium)

- Invited keynote speaker at i-SUP2012 (Innovation for Sustainable Production)
Lecture on “TBD”
(2012)

University of Molise (Italy)

- Invited Lecturer
Lecture on “Characterizing, estimating and modelling species diversity by remote sensing”
(2009)

University of Arid Agriculture (Islamabad, Pakistan)

- Invited keynote speaker at the International Conference on Biodiversity Conservation as a Renewable Resource,
Lecture on “Challenges in biodiversity monitoring by satellite imagery” (2007)

University of Ravenna (Italy)

- Invited Lecturer
Lecture on “Species from space: on the estimate of species diversity by remote sensing”
(2008)

University of Torino (Italy)

- Invited Lecturer
Lecture on “Species from space: on the estimate of species diversity by remote sensing”
(2008)

- *Scientific software* -

- Operating System: Linux Mandriva
- GIS: GRASS GIS
- RS: GRASS GIS
- Statistics: R

- *International collaborators* -

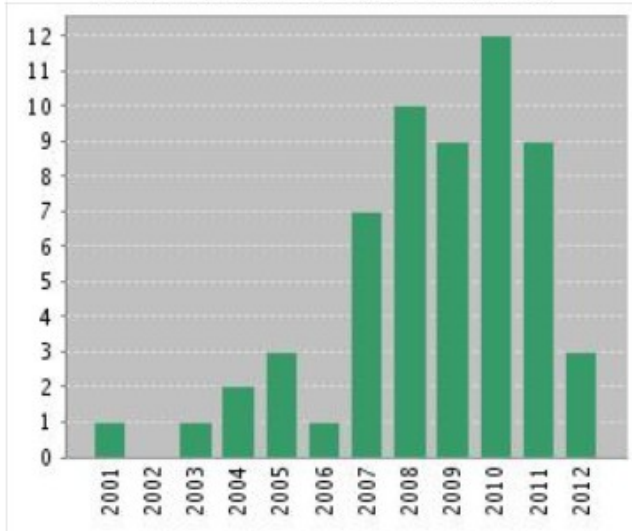
- **Brian S. Cade**, U.S. Geological Survey, Fort Collins Science Center, 2150 Centre Ave., Bldg. C, Fort Collins, Colorado 80526-8818, **USA**
- **Gregory A. Carter**, Gulf Coast Geospatial Center, The University of Southern Mississippi, P.O. Box 7000, 703 E. Beach Drive, Ocean Springs, MS 39564, **USA**
- **Péter Csontos**, MTA-ELTE Research Group in Theoretical Biology and Ecology, L. Eötvös University, Pázmány sétány 1/c, Budapest, H-1117, **Hungary**
- **Martin Diekmann**, Institute of Ecology and Evolutionary Biology, FB 2, Universität Bremen, Leobener Str. D-28359 Bremen, Germany
- **Giles M. Foody**, School of Geography, The University of Nottingham, University Park, Nottingham NG7 2RD, **UK**
- **Ana Paula Giorgi**, Department of Geography, University of California Los Angeles, Los Angeles, CA 90095-1524
- **Rucha Ghate**, SHODH: The Institute for Research and Development, 50, Puranik Layout, Bharat Nagar, Nagpur 440033, Maharashtra, **India**
- **Thomas W. Gillespie**, Department of Geography, University of California Los Angeles, Los Angeles, CA 90095-1524, **USA**
- **Kate S. He**, Department of Biological Sciences, Murray State University, Murray, Kentucky 42071, **USA**
- **Joaquín Hortal**, NERC Centre for Population Biology, Imperial College London, Silwood Park Campus, Ascot SL5 7PY, **UK**
- **Attila R. Imre**, KFKI Atomic Energy Research Institute, Budapest, POB 49, H-1525, **Hungary**
- **Alberto Jiménez-Valverde**, Natural History Museum and Biodiversity Research Center, The University of Kansas, Lawrence, Kansas 66045, **USA**
- **Salit Kark**, The Biodiversity Research Group, Dept. of Evolution, Systematics and Ecology, The Institute of Life Sciences, The Hebrew University of Jerusalem, Jerusalem 91904, **Israel**
- **Szabolcs Lengyel**, Department of Ecology, University of Debrecen, Egyetem tér 1, 4032 Debrecen, **Hungary**
- **Noam Levin**, Dept. of Geography, Faculty of Social Sciences, The Hebrew University of Jerusalem, Mount Scopus Campus, Jerusalem 91905, **Israel**
- **Jorge M. Lobo**, Museo Nacional de Ciencias Naturales, Departamento Biodiversidad y Biología Evolutiva, C/José Gutiérrez Abascal 2, E-28006, Madrid, **Spain**
- **Harini Nagendra**, Ashoka Trust for Research in Ecology and the Environment, 659 5th A Main, Hebbal, Bangalore 560024, **India**
- **Sassan Saatchi**, Jet Propulsion Laboratory, California Institute of Technology, 4800 Oak Grove Drive, Pasadena, CA, 91109, **USA**
- **Thomas Wohlgemuth**, WSL Swiss Federal Inst. for Forest, Snow and Landscape Research, Zürcherstrasse 111, CH-8903 Birmensdorf, **Switzerland**

- Publications -

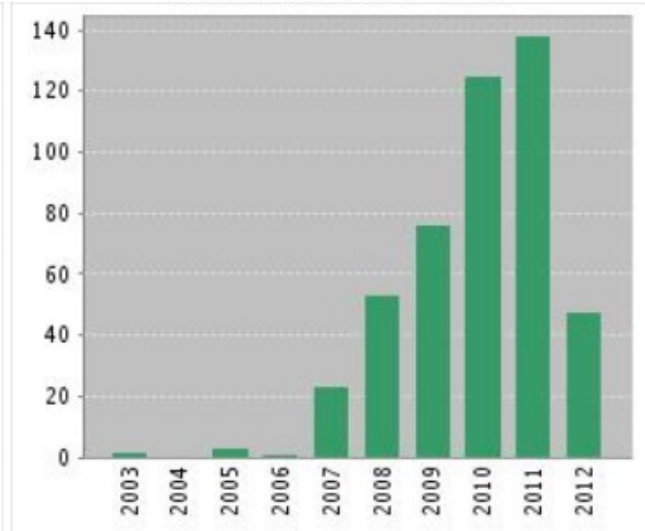
- Peer-reviewed International Journals -

Scientometrics:

Published Items in Each Year



Citations in Each Year



Cumulative Impact factor: 129.681

Maximum Impact factor: 14.448 (*Trends in Ecology and Evolution*, first author, 2 authors total)

Number of papers (ISI Thomson Institute): 58

Number of citations (*ISI Thomson Institute*): 409

Mean number of citations per paper (*ISI Thomson Institute*): 7.44

h-index (ISI Thomson Institute): 14

Number of *top-downloaded articles*: 4 (first author) + 1 (co-author)

Number of papers appeared in *top-ranked journals*: 4 (*Trends in Ecology and Evolution*, *top-ranked journal in*

Evolutionary Biology: 1 pub as first author, *Remote Sensing of Environment*, *top-ranked journal in Remote Sensing*: 2 pubs as single author; *Global Ecology and Biogeography*, *top-ranked journal in Physical Geography*: 1 pub as first author)

List:

1. Rocchini, D., Neteler, M. (2012). Let the four freedoms paradigm apply to ecology. Accepted by *Trends in Ecology and Evolution*. [IF: 14.448]
 2. Vernesi, C., Rocchini, D., Pecchioli, E., Neteler, M., Vendramin, G.G., Paffetti, D. (2012). A landscape genetics approach reveals ecological-based differentiation in populations of holm oak (*Quercus ilex*, L.) at their northernmost distribution edge. Accepted by *Biological Journal of the Linnean Society*. [IF: 2.166]
 3. Rocchini, D., Delucchi, L., Bacaro, G., Cavallini, P., Feilhauer, H., Foody, G.M., He, K.S., Nagendra, H., Porta, C., Ricotta, C., Schmidlein, S., Spano, L.D., Wegmann, M., Neteler, M. (2012). Calculating landscape diversity with information-theory based indices: A GRASS GIS solution. Accepted by *Ecological Informatics*. [IF: 1.351]
 4. Hernández-Stefanoni, J.L., Gallardo-Cruz, J.A., Meave, J.A., Rocchini, D., Bello-Pineda, J., López-Martínez, J.O. (2012). Modeling α - and β -diversity in a tropical forest from remotely sensed and spatial data. Accepted by *International Journal of Applied Earth Observation and Geoinformation*. [IF: 1.557]
 5. Rocchini, D., Metz, M., Frigeri, A., Delucchi, L., Marcantonio, M., Neteler, M. (2012). Robust rectification of aerial photographs in an Open Source space. *Computers & Geosciences*, 39: 145-151. [IF: 1.416] **“Top 10 downloaded articles”**
 6. Amici, V., Rocchini, D., Geri, F., Bacaro, G., Marcantonio, M., Chiarucci, A. (2012). Effects of an afforestation process on plant species richness: a retrogressive analysis. *Ecological Complexity*, 9: 55-62. [IF: 1.886]
 7. Cateni, C., Rocchini, D. (2012). Teaching Mathematics creatively, Book Review. *European Journal of Teacher Education*, 35: 129-131. [IF: 0.396]
 8. Rocchini, D., Neteler, M. (2011). Spectral rank-abundance for measuring landscape diversity. Accepted by *International Journal of Remote Sensing*, 33: 4458–4470. [IF: 1.182]
- 2011 -
9. Neteler, M., Rocchini, D. (2011). Why Geomatics matter. *Geography and You*, September-October issue, p. 28-29.
 10. Bacaro, G., Rocchini, D., Duprè, C., Diekmann, M., Carnesecchi, F., Gori, V., Chiarucci, A. (2011). Absence of distance decay in plot species similarity at small extent in an urban brownfield. Accepted by *Community Ecology*. [IF: 0.974]
 11. Pelorosso, R., Della Chiesa, S., Tappeiner, U., Leone, A., Rocchini, D. (2011). Stability analysis for defining management strategies in abandoned mountain landscapes of the Mediterranean basin. Accepted by *Landscape and Urban Planning*. [IF: 2.004]
 12. Neteler, M., Roiz, D., Rocchini, D., Castellani, C., & Rizzoli, A. (2011). Terra and Aqua satellites track tiger mosquito invasion: modelling the potential distribution of *Aedes albopictus* in north-eastern Italy. *International Journal of Health Geographics*. [IF: 2.341]
 13. Bacaro, G., Santi, E., Rocchini, D., Pezzo, F., Puglisi, L., Chiarucci, A. (2011). Geostatistical modelling of regional bird species richness : exploring environmental proxies for conservation purpose. *Biodiversity and Conservation*, 20: 1677-1694.. [IF: 2.146]
 14. Maccherini, S., Marignani, M., Gioria, M., Renzi, M., Rocchini, D., Santi, E., Torri, D., Tundo, J., Honnay, O. (2011). Determinants of plant community composition of remnant biancane badlands: a hierarchical approach to quantify species-environment relationships. *Applied Vegetation Science*, 14: 378-387. [IF: 1.802]

15. He, K.S., Rocchini, D., Neteler, M., Nagendra, H. (2011). Benefits of hyperspectral remote sensing for tracking plant invasions. *Diversity and Distributions*, 17: 381-392. ["Top 10 downloaded articles" from January 2011 to August 2011, IF: 4.248]
16. Geri, F., Amici, V., Rocchini, D. (2011). Spatially-based accuracy assessment of forestation prediction in a complex Mediterranean landscape. *Applied Geography*, 31: 881-890. [IF: 1.904]
17. Imre, A.R., Cseh, D., Neteler, M., Rocchini, D. (2011). Korcak dimension as a novel indicator of landscape fragmentation and re-forestation. *Ecological Indicators*, 11: 1134-1138. [IF: 2.967]
18. Rocchini, D., McGlinn, D., Ricotta, C., Neteler, M., Wohlgemuth, T. (2011). Landscape complexity and spatial scale influence the relationship between remotely sensed spectral diversity and survey based plant species richness. *Journal of Vegetation Science*, 22: 688-698. [IF: 2.457]
19. Rocchini, D., Hortal, J., Lengyel, S., Lobo, J.M., Jiménez-Valverde, A., Ricotta, C., Bacaro, G., Chiarucci, A. (2011). Accounting for uncertainty when mapping species distributions: the need for maps of ignorance. *Progress in Physical Geography*, 35: 211-226. [IF: 2.280]

- 2010 -

20. Rocchini, D. (2010). Ecological status and change by remote sensing - Editorial. *Remote Sensing*, 2: 2424-2425.
21. Amici, V., Geri, F., Csontos, P., Neteler, M., Rocchini, D. (2010). Fuzzy and boolean forest membership: on the actual separability of land cover classes. *Applied Ecology and Environmental Research*, 8: 39-50. [IF: 0.547]
22. Rocchini, D., Balkenhol, N., Carter, G.A., Foody, G.M. Gillespie, T.W., He, K.S., Kark, S., Levin, N., Lucas, K., Luoto, M., Nagendra, H., Oldeland, J., Ricotta, C., Southworth, J., Neteler, M. (2010). Remotely sensed spectral heterogeneity as a proxy of species diversity: recent advances and open challenges. *Ecological Informatics*, 5: 318-329. [IF: 1.351] *Among the Top 25 downloaded papers.*
23. Ricotta, C., Godefroid, S., Rocchini, D. (2010). Invasiveness of Brussels alien plants is related to their phylogenetic similarity to native species. *Diversity and Distributions*, 16: 655-662. [IF: 4.248]
24. Nagendra, H., Rocchini, D., Ghate, R. (2010). Beyond parks as monoliths: Spatially differentiating park-people relationships in the Tadoba Andhari Tiger Reserve in India. *Biological Conservation*, 143: 2900-2908. [IF: 3.498]
25. Rocchini, D. (2010). Mathematical Ecology of Populations and Ecosystems by J. Pastor. Book Review. *Ecoscience*, 17: 226-227. [IF: 1.589]
26. Nagendra, H., Rocchini, D., Ghate, R., Sharma, B., Pareeth, S. (2010). Assessing plant diversity in a dry tropical forest: comparing the utility of Landsat and IKONOS satellite images. *Remote Sensing*, 2: 478-496.
27. Rocchini, D., He, K.S., Oldeland, J., Wesuls, D., Neteler, M. (2010). Spectral variation versus species beta-diversity at different spatial scales: a test in African highland savannas. *Journal of Environmental Monitoring*, 12: 825-831. [IF: 1.81]
28. Rocchini, D., Vannini, A. (2010). What is up? Testing spectral heterogeneity vs. NDVI relationship by quantile regression. *International Journal of Remote Sensing*, 31: 2745-2756. [IF: 1.182]
29. Geri, F., Rocchini, D., Chiarucci, A. (2010). Landscape metrics and topographical determinants of large-scale forest dynamics in a Mediterranean landscape. *Landscape and Urban Planning*, 95: 46-53. [IF: 2.004]

30. Geri, F., Amici, V., Rocchini, D. (2010). Human activity impact on the heterogeneity of a Mediterranean landscape. *Applied Geography*, 30: 370-379. [IF: 1.904]
31. Rocchini, D. (2010). While Boolean sets non-gently rip: a theoretical framework on fuzzy sets for mapping landscape patterns. *Ecological Complexity*, 7: 125-129. [IF: 1.886]
32. Oldeland, J., Wesuls, D., Rocchini, D., Schmidt, M., Norbert, J. (2010). Does using species abundance data improve estimates of species diversity from remotely sensed spectral heterogeneity? *Ecological Indicators*, 10: 390-396. [IF: 2.967]
33. Santi, E., Maccherini, S., Rocchini, D., Bonini, I., Brunialti, G., Favilli, L., Perini, C., Pezzo, F., Piazzini, S., Rota, E., Salerno, E., Chiarucci, A. (2010). Simple to sample: vascular plants as surrogate group in a nature reserve. *Journal for Nature Conservation*, 18: 2-11. [IF: 1.545]
34. Ricotta, C., Godefroid, S., Rocchini, D. (2010). Patterns of native and exotic species richness in the urban flora of Brussels: rejecting the “rich get richer” model. *Biological Invasions*, 12: 33-40. [IF: 3.474]

- 2009 -

35. Rocchini, D., He, K.S., Zhang, J. (2009). Is spectral turnover a proxy of beta diversity at different taxonomic ranks? A test using quantile regression. *Ecological Informatics*, 4: 254-259. [IF: 1.351]
36. Chiarucci, A., Bacaro, G., Rocchini, D., Ricotta, C., Palmer, M.W., Scheiner, S.M. (2009). Spatially constrained rarefaction: incorporating the autocorrelated structure of biological communities in sample-based rarefaction. *Community Ecology*, 10: 209-214. [IF: 0.974]
37. Rocchini, D. (2009). Commentary on Krishnaswamy et al. - Quantifying and mapping biodiversity and ecosystem services: Utility of a multi-season NDVI based Mahalanobis distance surrogate. *Remote Sensing of Environment*, 113: 904-906. [Top Ranked Journal, Remote Sensing, IF: 3.951]
38. Rocchini, D., Nagendra, H., Ghate, R., Cade, B.S. (2009). Spectral distance decay: assessing species beta-diversity by quantile regression. *Photogrammetric Engineering & Remote Sensing*, 75: 1225–1230. [IF: 0.926]
39. Imre, A.R., Rocchini, D. (2009). Explicitly accounting for pixel dimension in calculating classical and fractal landscape shape metrics. *Acta Biotheoretica*, 57: 349-360. [IF: 1.707]
40. Rocchini, D. (2009). Algorithmic foundation of spectral rarefaction for measuring satellite imagery heterogeneity at multiple spatial scales. *Sensors*, 9: 303-310. [IF: 1.771]
41. Rocchini, D., Ricotta, C., Chiarucci, A., De Dominicis, V., Cirillo, I., Maccherini, S. (2009). Relating spectral and species diversity through rarefaction curves. *International Journal of Remote Sensing*, 30, 2705-2711. [IF: 1.182]
42. Rocchini, D., Marignani, M., Bacaro, G., Chiarucci, A., Ferretti, M., De Dominicis, V., Maccherini, S. (2009). Multi-scale sampling and statistical linear estimators to assess land use status and change. *Applied Vegetation Science*, 12: 225-236. [IF: 1.802]

- 2008 -

43. Nagendra, H., Rocchini, D. (2008). Satellite imagery applied to biodiversity study in the tropics: the devil is in the detail. *Biodiversity and Conservation*, 17: 3431-3442. [IF: 2.146]
44. Rocchini, D., Wohlgemuth, T., Ghisleni, S., Chiarucci, A. (2008). Spectral rarefaction: linking ecological variability and plant species diversity. *Community Ecology*, 9: 169-176. [IF: 0.974]

45. Chiarucci, A., Bacaro, G., Vannini, A., Rocchini, D. (2008). Quantifying species richness at multiple spatial scales in a Natura 2000 network . *Community Ecology*, 9: 185-192. [IF: 0.974]
46. Chiarucci, A., Bacaro, G., Rocchini, D. (2008) Quantifying plant species diversity in a Natura 2000 Network: old ideas and new proposals. *Biological Conservation*, 141: 2608-2618.. [IF: 3.498]
47. Rocchini, D., Cade, B.S. (2008). Quantile regression applied to spectral distance decay. *IEEE Geoscience and Remote Sensing Letters*, 5: 640-643. [IF: 1.420]
48. Chiarucci, A., Bacaro, G., Rocchini, D., Fattorini, L. (2008). Discovering and ... rediscovering the rarefaction formula in ecological literature. *Community Ecology*, 9: 121-123. [IF: 0.974]
49. Gillespie, T.W., Foody, G.M., Rocchini, D., Giorgi, A.P., Saatchi, S. (2008). Measuring and modeling biodiversity from space. *Progress in Physical Geography*, 32: 203-221. [IF: 2.28] **“Top 50 Most-Frequently read articles”** ranked as 10th
50. Bacaro, G., Rocchini, D., Bonini, I., Marignani, M., Maccherini, S., Chiarucci, A. (2008). Ecological determinants of plant species richness at local scale in Mediterranean forests. *Plant Biosystems*, 142: 630-642. [IF: 0.829]
51. Rocchini, D. (2008). Theory of reflectance and emittance spectroscopy, by B. Hapke, Book Review. *The Photogrammetric Record*, 23: 241. [IF: 0.925]
52. Marignani, M., Maccherini, S., Rocchini, D., Chiarucci, A., Torri, D. (2008). Planning restoration in a cultural landscape in Italy using object-based approach and historical analysis. *Landscape and Urban Planning*, 84: 28-37. [IF: 2.004]

- 2007 -

53. Csontos, P., Rocchini, D., Bacaro, G. (2007). Modelling factors affecting litter mass components of pine stands. *Community Ecology*, 8: 247-256. [IF: 0.974]
54. Rocchini, D. (2007). Effects of spatial and spectral resolution in estimating ecosystem α -diversity by satellite imagery. *Remote Sensing of Environment*, 111: 423-434. [**Top Ranked Journal, Remote Sensing**, IF: 3.951]
55. Rocchini, D., Ricotta, C., Chiarucci, A. (2007). Using remote sensing to assess plant species richness: the role of multispectral systems. *Applied Vegetation Science*, 10: 325-332. [IF: 1.802]
56. Baffetta, F., Bacaro, G., Fattorini, L., Rocchini, D., Chiarucci, A. (2007). Using nested plot design to obtain unbiased estimates of species richness. *Community Ecology*, 8: 119-127. [IF: 0.974]
57. Rocchini, D., Ricotta, C. (2007). Are landscapes as crisp as we may think? *Ecological Modelling*, 204: 535-539. [IF: 1.769]
58. Rocchini, D. (2007). Distance decay in spectral space in analysing ecosystem β -diversity. *International Journal of Remote Sensing*, 28: 2635-2644. [IF: 1.089]
59. Gerosa, G., Ferretti, M., Bussotti, F., Rocchini, D. (2007). An empirical method to estimate ozone AOT40 from passive sampling in forest sites in South-Western Europe. *Environmental Pollution*, 145: 629-635. [IF: 3.395]

- 2006 -

60. Rocchini, D., Perry, G.L.W., Salerno, M., Maccherini, S., Chiarucci, A. (2006). Landscape change and the dynamics of open formations in a natural reserve. *Landscape and Urban Planning*, 77: 167-177. [**“Top 25 downloaded articles”** from January 2006 to April 2006, IF: 2.004]

61. Rocchini, D. (2006). GI pioneers come back again. Book review of Longley et al. (2005), Geographic Information Systems and Science, 2nd edition. *ISPRS Highlights*, 11: 73-74.
62. Rocchini, D., Cateni, C. (2006). On the measure of spatial centroid in Geography. *Asian Journal of Information Technology*, 5: 729-731.

- 2005 -

63. Rocchini, D., Andreini Butini, S., Chiarucci, A. (2005). Maximizing plant species inventory efficiency by means of remotely sensed spectral distances. *Global Ecology and Biogeography*, 14: 431-437. [IF: 5.273]
64. Rocchini, D., Di Rita, A. (2005). Relief effects on aerial photos geometric correction. *Applied Geography*, 25: 159-168. ["**Top 25 downloaded articles**" from October 2005 to July 2006, IF: 1.904]
65. Rocchini, D. (2005). Resolution problems in calculating landscape metrics. *Journal of Spatial Science*, 50: 25-36. [IF: 1.000]
66. Rocchini, D. (2005). RS as Rubbish Sensing? A reply from a landscape ecologist. *The Photogrammetric Record*, 20: 404-406. [IF: 0.925]

- 2004 -

67. Rocchini, D., Chiarucci, A., Loiselle, S.A. (2004). Testing the Spectral Variation Hypothesis by using satellite multispectral images. *Acta Oecologica*, 26: 117-120. ["**Top 25 downloaded articles**" from October 2004 to June 2005, IF: 1.460]
68. Rocchini, D. (2004). Misleading information from direct interpretation of geometrically incorrect aerial photos. *The Photogrammetric Record*, 19: 138-148. [IF: 0.925]

- 2003 -

69. Salerni, E., Perini, C., Rocchini, D., Laganà, A., De Dominicis, V. (2003). The Italian check-list of macrofungi: distribution of selected target species in Siena province, Italy. *Mycotaxon* 86: 123-147. [IF: 0.752]

- 2001 -

70. Chiarucci, A., Rocchini, D., Leonzio, C., De Dominicis, V. (2001). A test of vegetation-environment relationship in serpentine soils of Tuscany, Italy. *Ecological Research* 16: 627-639. [IF: 1.279]

- Italian Language pubs -

71. Geri, F., Giordano, M., Nucci, A., Rocchini, D., Chiarucci, A. (2008). Analisi multitemporale del paesaggio forestale della Provincia di Siena mediante l'utilizzo di cartografie storiche. *Forest@*, 5: 82-91.
72. Rocchini, D., Cade, B.S., Billi, A., Vannini, A., Santoro, E., Bacaro, G., Geri, F., Gasparini, P., Chiarucci, A. (2008). Distance decay della β -similarità: barriere ecologiche o spaziali? *Rivista Italiana di Telerilevamento*, 40: 59-73.
73. Rocchini, D., Andreini Butini, S., Loiselle, S.A., Ricotta, C., Chiarucci, A. (2007). L'uso dell'eterogeneità spettrale per la massimizzazione dell'efficienza del censimento di specie vegetali. *Rivista Italiana di Telerilevamento* 37: 37-45.

74. Brunialti, G., Frati, L., Bacaro, G., Bussotti, F., Calderisi, M., Chiarucci, A., Marignani, M., Maccherini, S., Rocchini, D., Ferretti, M. (2007). L'esperienza di Terradata *environmetrics*: nuova impresa spin-off dell'università di siena. NOT.SOC.LICH.ITAL. 20: 101-104 (2007)
75. Chiarucci A., Rocchini D., Bonini I., Maccherini S., Bacaro G., Marignani M., Ferretti M. (2005). L'uso di metodologie quantitative per la valutazione, il monitoraggio e la conservazione della diversità specifica. *Informatore Botanico Italiano* 37.
76. Maccherini S., Castagnini P., Chiarucci A., Ferretti M., Frignani F., Marignani M., Rocchini D., Santi E. (2005). Applicazione di metodologie quantitative nei progetti di conservazione di habitat seminaturali. *Informatore Botanico Italiano* 37.
77. Marignani M., Boddi M., Chiarucci A., Cirillo I., Ferretti M., Maccherini S., Rocchini D. (2005). Telerilevamento e GIS per la conservazione ed il monitoraggio della diversità biologica e territoriale. *Informatore Botanico Italiano* 37.
78. Viciani, D., Foggi, B., Gabellino, A., Rocchini, D. (2002). Contributo alla conoscenza delle praterie su substrati ultramafici dell'Alta Valtiberina (Toscana Orientale, Italia). *Fitosociologia* 39: 127-134.
79. Rocchini D., Chiarucci A. (2001). Analisi dei cambiamenti vegetazionali nel territorio di Murlo. In: Campana S. (2001). *Carta Archeologica della provincia di Siena Volume V Murlo*. Nuova Immagine Editrice, Siena.

- Extended abstracts and proceedings -

80. Rizzoli, A., Rosà, R., Cagnacci, F., Bolzoni, L., Carpi, G., Neteler, M., Rocchini, D., Tagliapietra, V., Rosso, F., Arnoldi, D., Girardi, M., Hauffe, H. (2012). Biotic factors and emergence of tick-borne encephalitis in Europe: theoretical simulation and empirical observations. Planet Under Pressure World Congress, March 26-29 2012, London, UK.
81. Santi, E., Chiarucci, A., Bacaro, G., Rocchini, D., Bonini, I., Brunialti, G., Maccherini, S. (2011). Effects of the spatial scale and the type of predictor on cross-taxon congruence. 41st Annual Meeting of the Ecological Society of Germany, Austria and Switzerland, 5 - 9 September 2011, Oldenburg, Germany.
82. Amici, V., Rocchini, D., Geri F., Bacaro, G., Marcantonio, M., Landi, S., Chiarucci, A. (2011). Effects of forest establishment on plant diversity: a retrogressive analysis. 41st Annual Meeting of the Ecological Society of Germany, Austria and Switzerland, 5 - 9 September 2011, Oldenburg, Germany.
83. Zorer, R., Rocchini, D., Delucchi, L., Neteler, M. (2011). Use of multi-annual MODIS Land Surface Temperature data for the characterization of the heat requirements for grapevine varieties. MULTITEMP 2011 - Call for Papers. 6th International Workshop on the Analysis of Multitemporal Remote Sensing Images. Trento, Italy, 12-14 July 2011.
84. Rocchini, D., Delucchi, L., acaro, G., Cavallini, P., Feilhauer, H., Foody, G.M., He, K.S., Nagendra, H., Porta, C., Ricotta, C., Schmidtlein, S., Spano, L.D., Wegmann, M., Neteler, M. (2011). Calculating generalized entropy as a measure of landscape diversity in an Open Source space. 54th Meeting of the International Association for Vegetation Science (IAVS), Lyon, France, 20-24 June 2011.
85. Neteler, M., Metz, M., Delucchi, L., Marcantonio, M., Rocchini, D. (2011). From historical aerial maps to a biotope map: ecological image processing in GRASS GIS. Geoinformatics FCE CTU 2011, 19-20 May, Prague, Czech Republic.

86. Rocchini, D., Balkenhol, N., Delucchi, L., Ghisla, A., Jordan, F., Nagendra, H., Vernesi, C., Wegmann, M., Neeler, M. (2011). Open Source spatial algorithms applied to landscape genetics. 7th ECEM (European Conference on Ecological Modelling), Riva del Garda, 30 May-1 June 2011.
87. Rocchini, D., Delucchi, L., Cavallini, P., Porta, C., Spano, L.D., Neteler, M. (2011). Measuring ecosystem complexity from remotely sensed imagery in an Open Source space. 12° Meeting degli Utenti Italiani GRASS e GFOSS, Trento, 9-11 Febbraio 2011.
88. Zorer, R., Rocchini, D., Delucchi, L., Neteler, M. (2011). Deriving the Winkler bioclimatic index from MODIS Land Surface Temperature data. 1.12° Meeting degli Utenti Italiani GRASS e GFOSS, Trento, 9-11 Febbraio 2011.
89. Amici, V., Geri, F., Rocchini, D., Landi, S., Chiarucci, A. (2011). Backward in time modeling to assess the effects of an afforestation process on plant species richness. 12° Meeting degli Utenti Italiani GRASS e GFOSS, Trento, 9-11 Febbraio 2011.
90. Rocchini, D., Balkenhol, N., Carter, G.A., Foody, G.M. Gillespie, T.W., He, K.S., Kark, S., Levin, N., Lucas, K., Luoto, M., Nagendra, H., Oldeland, J., Ricotta, C., Southworth, J., Neteler, M. (2010). Crossing utopia: estimating species diversity by remote sensing spectral heterogeneity. 7th International Conference on Ecological Informatics. Ghent, Belgium. December 13th-16th, 2010.
91. Rocchini, D., Delucchi, L., Ricotta, C., Ghisla, A., Castellani, C., Zorer, R., Neteler, M. (2010). Measuring spatial diversity in a free algorithmic environment. Open Source Geospatial Foundation (OSGeo) Conference. Barcelona, Spain, September 6th - 9th, 2010.
92. Neteler, M., Roiz, D., Castellani, C., Rocchini, D., Rizzoli, A. (2010). Potential distribution of the tiger mosquito *Aedes albopictus* in Northern Italy derived from reconstructed MODIS Land Surface Temperature maps. Open Source Geospatial Foundation (OSGeo) Conference. Barcelona, Spain, September 6th - 9th, 2010.
93. Rocchini, D., Nagendra, H., Cade, B.S., He, K., Oldeland, J., Ghate, R., Wesuls, D., Neteler, M. (2010). Advances in forecasting species beta-diversity by remote sensing: Current status and future directions. German Society of Ecology, GfÖ 40th Anniversary Meeting 2010, Giessen, August 30th - September 3rd 2010
94. Rocchini, D., Wunder, J., Li, M., Vernesi, C., Neteler, M., Castellani, C., Ometto, L., Bolzoni, L., Rosà, R., Rizzoli, A., Varotto, C. (2010). Bayesian theory applied to landscape genetics: testing spatial autocorrelation of genetic similarity by a Markov Chain Monte Carlo test. 9th Meeting on Vegetation Databases, University of Hamburg, February 24-26 2010.
95. Bacaro, G., Rocchini, D., Landi, S., Chiarucci, A. (2009). Problems and solution in assessing and monitoring plant species richness in reserve networks. 2nd European Congress of Conservation Biology, Prague, Czech Republic, September 1st – 5th, 2009.
96. Rocchini, D., Wohlgemuth, T., Ricotta, C., Ghisleni, S., Stefanini, A., Chiarucci, A. (2009). Rarefaction theory applied to satellite imagery for relating spectral and species diversity. **Italian Journal of Remote Sensing**, 41: 109-123.
97. Chiarucci, A., Bacaro, G., Landi, S., Amici, V., Geri, F., Rocchini, D. (2009). Compositional divergence among ancient and recent forests: evidences from the field. 18th International Workshop of European Vegetation Survey, Rome, March 25th-28th 2009.
98. Rocchini, D., Wohlgemuth, T., Ricotta, C., Chiarucci, A. (2008). Rarefaction theory applied to spectral and species diversity. XVIII Congresso Nazionale S.It.E., Parma, 1-3 Settembre 2008.

99. Chiarucci, A., Bacaro, G., Vannini, A., Rocchini, D. (2008). Quantifying plant species diversity in a Natura 2000 Network: old ideas and new proposals. XVIII Congresso Nazionale S.It.E., Parma, 1-3 Settembre 2008.
100. La Porta, N., Zottele, F., Rocchini, D. (2008). Fuzzy set theory applied to the characterisation of Alpine forest vegetation. XVIII Congresso Nazionale S.It.E., Parma, 1-3 Settembre 2008.
101. Geri, F., Chiarucci, A., Rocchini, D. (2008). Studio delle trasformazioni del paesaggio attraverso l'analisi multitemporale di dati eterogenei. XVIII Congresso Nazionale S.It.E., Parma, 1-3 Settembre 2008.
102. Rocchini, D., Wohlgemuth, T., Ghisleni, S., Chiarucci, A. (2008). Spectral rarefaction: using satellite imagery to relate species and ecological diversity in Switzerland. 44° Congresso Nazionale della Società Italiana di Scienza della Vegetazione (SISV), Ravenna, 27-29 Febbraio 2008.
103. Ghisleni, S., Bacaro, G., Ricotta, C., Rocchini, D., Chiarucci, A. (2008). Patterns and Determinants of Taxonomic Distinctness in plant communities within eight Sites of Community Importance (Natura 2000 Network), Siena Province, Tuscany. 44° Congresso Nazionale della Società Italiana di Scienza della Vegetazione (SISV), Ravenna, 27-29 Febbraio 2008.
104. Maccherini, S., Marignani, M., Rocchini, D., Santi, E. (2008). Hierarchical analysis of species-environment relationships: plant communities of remnant biancane fields. 44° Congresso Nazionale della Società Italiana di Scienza della Vegetazione (SISV), Ravenna, 27-29 Febbraio 2008.
105. Santi, E., Bonini, I., Brunialti, G., Favilli, L., Maccherini, S., Perini, C., Pezzo, F., Piazzini, S., Rocchini, D., Rota, E., Salerno, E., Chiarucci, A. (2008). Vascular plants role in cross-taxon surrogati. 44° Congresso Nazionale della Società Italiana di Scienza della Vegetazione (SISV), Ravenna, 27-29 Febbraio 2008.
106. Geri, F., Nucci, A., Giordano, M., Rocchini, D., Chiarucci, A. (2007). Analisi multitemporale del paesaggio forestale della Provincia di Siena mediante l'utilizzo di cartografie storiche. VI Congresso SISEF, Arezzo, 25-27 Settembre 2007.
107. Rocchini, D., Wohlgemuth, T., Chiarucci, A. (2007). Spectral Variation Hypothesis: a theoretical background for predicting plant species diversity from satellite imagery. XVII Congresso Nazionale S.It.E., Ancona, 17-20 Settembre 2007.
108. Chiarucci, A., Bacaro, G., Geri, F., Rocchini, D. (2007). Monitoring plant diversity in Natura2000 network: comparing species diversity indicators over large spatial scales. XVII Congresso Nazionale S.It.E., Ancona, 17-20 Settembre 2007.
109. Geri, F., Giordano, M., Nucci, A., Rocchini, D., Chiarucci, A. (2007). Landscape and topographical determinants of forest dynamics in a Mediterranean landscape. XVII Congresso Nazionale S.It.E., Ancona, 17-20 Settembre 2007.
110. Brunialti, G., Vallone, E., Paiano, N., Frati, L., Calderisi, M., Maccherini, S., Rocchini, D., Bacaro, G., Ferretti, M., Isocrono, D. (2007). Quale approccio metodologico per l'elaborazione dei dati di biomonitoraggio mediante licheni epifiti ottenuti dall'applicazione del protocollo anpa?. XX Convegno della Società Lichenologica Italiana Siena, 13 e 14 settembre 2007. NOT.SOC.LICH.ITAL. 20: 25 (2007).
111. Rocchini, D., Wohlgemuth, T., Chiarucci, A. (2007). Spectral Variation Hypothesis: using satellite imagery to predict plant species hotspots in Switzerland. International Conference "Monitoring the Effectiveness of Nature Conservation", Swiss Federal Research Institute WSL, Switzerland, September 3rd-6th 2007.
112. Chiarucci, A., Bacaro, G., Rocchini, D. (2007). First phase in monitoring plant diversity in Natura2000 network (Siena Province, Central Italy): comparing species diversity indicators across large spatial scale.

- International Conference “Monitoring the Effectiveness of Nature Conservation”, Swiss Federal Research Institute WSL, Switzerland, September 3rd-6th 2007.
113. Rocchini, D. (2007). Species from space: challenges in biodiversity monitoring by satellite imagery. International Conference on Biodiversity Conservation as a Renewable Resource of Pakistan, Rawalpindi-Islamabad, March 13th-14th 2007.
 114. Chiarucci, A., Bacaro, G., Rocchini, D. (2007). A probabilistic approach to biodiversity monitoring in the European Natura2000 network. 49th IAVS Symposium, Palmerston North, New Zealand, February 12th-16th 2007.
 115. Rocchini, D., Cade, B.S., Bacaro, G., Billi, A., Santoro, E., Chiarucci, A. (2007). Distance decay della β -similarità: barriere ecologiche o spaziali? Workshop AIT,SBI Telerilevamento e spazializzazione nel monitoraggio forestale e ambientale per la difesa degli ecosistemi, Isernia, Università del Molise, 24 Gennaio 2007.
 116. Bacaro, G., Giordani, P., Bussotti, F., Calderisi, M., Maccherini, S., Marignani, M., Rocchini, D., Brunialti, G., Frati, L., Chiarucci, A., Ferretti, M. (2006). Bridging the gap between description and inference in environmental monitoring - taking over the challenge. XVI Congresso Nazionale S.It.E., Viterbo-Civitavecchia, 19-22 Settembre 2006.
 117. Bacaro, G., Rocchini, D., Vannini A., Chiarucci A. (2006). Assessing α and β diversity in four sites of community importance (Natura 2000 network) in Siena province. XVI Congresso Nazionale S.It.E., Viterbo-Civitavecchia, 19-22 Settembre 2006.
 118. Chiarucci, A., Bacaro, G., Rocchini, D. (2006). Application of a sample-based strategy for monitoring plant species diversity in a network of protected areas. 1st European Congress of Conservation Biology, Eger Hungary, August 22-26 2006.
 119. Chiarucci, A., Bacaro, G., Rocchini, D. (2006). Biodiversity monitoring for the Natura2000 network: old Ideas and new proposals. International Conference, Biodiversity Conservation: From Genes to Habitats. Swiss Federal Research Institute WSL, Davos, Switzerland, 23-24 November 2006.
 120. Andrei, S., Grechi, D., Lazzaroni, F., Lupi, A., Nenti, A., Rocchini, D., Ferretti, M. (2006). Integrazione di reti di monitoraggio per la stima dei livelli di ozono a scala sub-regionale. L' esempio di Firenze. Rete Informativa su ozono e vegetazione: Ozono e vegetazione: il contributo della ricerca italiana. San Piero a Grado, Pisa, 24 Novembre 2006.
 121. Ferretti, M., Rocchini, D., Bussotti, F., De Marco, A., Gerosa, G., Petriccione, B. (2006). Scaling-up ozone exposure from 'found' data to the systematic network of forest condition assessment in Italy. IUFRO Research Group 7.01 “Impacts of Air Pollution and Climate Change on Forest Ecosystems”, Riverside California, September 10-15 2006.
 122. Frati, L., Brunialti G., Rocchini, D. (2006). Sviluppo di metodi per la V.I.A. di lavori di coltivazione di cave di ghiaia mediante licheni epifiti: un caso studio in provincia di Siena. Congresso della Società Lichenologica Italiana. Trento, 5-7 ottobre 2006.
 123. Geri, F., Rocchini, D., Bacaro, G., Chiarucci A. (2006). Diversità vegetale e cartografia dell'uso del suolo in 4 pSIC della Provincia di Siena. XVI Congresso Nazionale S.It.E., Viterbo-Civitavecchia, 19-22 Settembre 2006.

124. Rocchini, D., Bacaro, G., Heinken, T., Diekmann, M., Gégout, J.C., Chiarucci, A. (2006). Species similarity decay in forest ecosystem of Europe: the role of regional heterogeneity and dispersal strategy. 91st Ecological Society of America Annual Meeting, Memphis Tennessee, August 6-11 2006.
125. Brunialti, G., Baragatti, E., Frati, L., Santi, E., Rocchini, D., Pezzo, F., Rota, E., Favilli, L., Perini, C., Chiarucci, A. (2005). Analisi delle congruenze tra diversità lichenica e di altri gruppi chiave di taxa: un caso studio nella Riserva Naturale di S. Agnese. Congresso Società Lichenologica Italiana, Trieste, 29-30 settembre 2005.
126. Rocchini, D., Maccherini, S., Chiarucci, A., Marignani, M., Boddi, M., Pellizzi, B., Cirillo, I., Baffetta, F., Ferretti, M. (2005). Remote-sensing survey for the assessment of land use diversity - even remote from reality? XV Congresso Nazionale S.It.E., Torino, 12-14 Settembre 2005.
127. Bacaro, G., Marignani, M., Rocchini, D., Calderisi, M., Ferretti, M., Maccherini, S., Chiarucci, A. (2005). Modelli predittivi di ricchezza specifica nelle foreste della Regione Toscana. XV Congresso Nazionale S.It.E., Torino, 12-14 Settembre 2005.
128. Marignani, M., Maccherini, M., Rocchini, D., Chiarucci, A., Torri, D. (2005). Planning the Restoration of Biancane Cultural Landscape in a Nature Reserve. 48th IAVS Symposium, Lisbon, Portugal July 24th-29th 2005
129. Marignani, M., Maccherini, M., Rocchini, D., Chiarucci, A., Torri, D. (2005). Planning the restoration of biancane cultural landscape with object-oriented image techniques. Ecological Restoration: A Global Challenge, Zaragoza, Spain, September 12th-18th 2005.
130. Bacaro, G., Rocchini, D., Marignani, M., Maccherini, M., Chiarucci, A. (2005). Estimating species richness in Tuscan forests using Generalized Linear Models. 48th IAVS Symposium, Lisbon, Portugal July 24th-29th 2005
131. Rocchini, D., Chiarucci, A., Andreini Butini, S., Loiselle, S.A. (2004) L'uso dell'eterogeneità spettrale derivata da immagini satellitari per la stima dell'eterogeneità spaziale. Workshop SBI Dall'Ecologia della Vegetazione alla Struttura del Paesaggio, Ravenna, 25 Novembre 2004
132. Boddi, M., Casini, F., Rocchini, D., Angiolini, C. (2004). Analisi multitemporale dei pattern spaziali di una zona umida lacustre. XIV Congresso Nazionale S.It.E., Siena, 4-6 Ottobre 2004.
133. Chiarucci, A., Ferretti, M., Rocchini, D., Baffetta, F., Fattorini, L. (2004). Il campionamento della ricchezza specifica a diverse scale spaziali per il monitoraggio della biodiversità in aree protette. XIV Congresso Nazionale S.It.E., Siena, 4-6 Ottobre 2004.
134. Pezzo, F., Rocchini, D., Benocci, A. (2004). Applicazione del telerilevamento allo studio della selezione dell'habitat di uccelli nidificanti in aree umide a canneto. XIV Congresso Nazionale S.It.E., Siena, 4-6 Ottobre 2004.
135. Rocchini, D., Chiarucci, A., Boddi, M., Casini, F., Angiolini, C., De Dominicis, V., Loiselle, S.A. (2004). L'uso dell'eterogeneità spettrale per la stima dell'eterogeneità spaziale. XIV Congresso Nazionale S.It.E., Siena, 4-6 Ottobre 2004.
136. Baffetta, F., Chiarucci, A., Ferretti, M., Rocchini, D. (2004). A sampling design to estimate species richness at multiple spatial scales for biodiversity monitoring. 7th International Meeting Quantitative Methods for Applied Science. Siena, Italy, September 23rd-24th 2004.

137. Casini, F., Boddi, M., Rocchini, D., Angiolini, C. (2004). Analisi multitemporale dei pattern spaziali della Riserva Naturale “Lago di Montepulciano” (Toscana Meridionale). 99° Congresso Nazionale Società Botanica Italiana. Torino, 22-24 Settembre 2004.
138. Rocchini, D., Chiarucci, A., Boddi, M., Casini, F., Angiolini, C., De Dominicis, V., Loiselle, S.A. (2004). Linking spectral heterogeneity to species diversity in a wetland area. 47th IAVS Symposium, Kona, Hawaii, USA, July 18th-23rd 2003.
139. Boddi, M., Casini, F., Rocchini, D., Angiolini, C. (2004). Analisi multitemporale dei pattern spaziali di una zona umida lacustre. Workshop SBI Viaggio alle radici del Paesaggio, Genova, 28-29 Maggio 2004.
140. Chiarucci, A., Bonini, I., Riva, A., Casini, F., Frati, L., Rocchini, D., De Dominicis, V. (2003). Biodiversità: una valutazione della componente vegetale. MON.I.TO., Giornata di Lavoro, ‘Stato di salute, inquinamento e biodiversità delle foreste toscane’. Firenze, 6 Novembre 2003.
141. Rocchini, D., Chiarucci, A., Loiselle, S.A. (2003). Monitoraggio della biodiversità tramite uno schema di campionamento multiscalare”. 7° Conferenza ASITA, Volume II, Verona, 28-31 Ottobre: 1689-1694.
142. Rocchini, D., Mudicante, D., Mion, D. (2003). How to detect the input resolution from derived maps? Proceedings of the 4th European Congress on Regional Cartography and Information Systems Volume II, Bologna, Italy, June 17th-20th 2003: 498-499
143. Chiarucci, A., Rocchini, D., Casini, F., Angiolini, C., Loiselle, S.A. (2003). Monitoring of vascular plant diversity by a multiscale sampling design. 46th IAVS Symposium, Napoli, Italy, June 8th-14th 2003
144. Rocchini, D., Paoli, L., Loppi, S. (2003). Interpolazione spaziale e map overlay nel biomonitoraggio della qualità ambientale tramite licheni. Congresso Società Lichenologica Italiana, Firenze, 18-19 settembre 2003.
145. Rocchini, D., Gonnelli, V. (2002). La storia dei rimboschimenti sulle ofioliti della Valtiberina Toscana e le modificazioni del paesaggio vegetale dal dopoguerra da oggi. Atti Seminario “Verso foreste più naturali, tra limiti e opportunità”, Ponte a Buriano e Penna, 12 giugno 2002: 29-35.
146. Rocchini, D., Salerno, M., Maccherini, S., Chiarucci, A. (2002). L’uso di griglie vettoriali per la classificazione di foto aeree e la definizione di indici strutturali del paesaggio. XII Congresso Nazionale S.It.E., Urbino, 16-18 Settembre 2002.
147. Salemi E., Perini C., Rocchini D., Laganà A., De Dominicis V. (2001). First contribution to the knowledge of the distribution of macrofungi in Siena province, Italy. Optima, Palermo, 13-19 Settembre 2001.

I consent to the use of my personal data in accordance with the provisions of decree 196/2003.

Trento, November 1st, 2011

Duccio Rocchini