



**DIPARTIMENTO INGEGNERIA CIVILE E
ARCHITETTURA
UNIVERSITÀ DEGLI STUDI DI CATANIA**

Daniele La Rosa – Track Record

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<https://www.scopus.com/authid/detail.uri?authorId=53264147800>

Current position

Associate Professor of Urban and Environmental Planning at the Department Civil Engineering and Architecture (DICAR), **University of Catania**, Italy (since 2019).

Education and academic background

Assistant Professor of Urban and Environmental Planning at the Department Civil Engineering and Architecture (DICAR), University of Catania, Italy (since 2012-2019).

Habilitated to the qualification of Associate Professor (Italian National Habilitation, first round, 2014)

Research Assistant (2008-2010), Department Civil Engineering and Architecture (DICAR), University of Catania (Italy)

PhD in “Integrated Analysis, Planning and Management of the Territory” at University of Catania (Italy) (2010-2012).

Research Fellow (2006-2008), Department Civil Engineering and Architecture (DICAR), University of Catania (Italy)

Research Assistant (2005-2006), Department of Spatial Planning, Polytechnic of Milan (Italy)

Master in Soil and Water Engineering at Polytechnic of Milan (Italy) (2002).

Master Degree in Environmental Engineering at Polytechnic of Milan (Italy) (2000).

Academic teaching (selected)

From 2006: course of Laboratory of Spatial Planning, MsD in Building Engineering, Department Civil Engineering and Architecture (DICAR), University of Catania

From 2012: course of Spatial and Environmental Planning, Department of Environment, Agriculture and Food Science, University of Catania

From 2012: Phd Course in “Territorial Risk Assessment and Mitigation”, Department Civil Engineering and Architecture (DICAR), University of Catania. *Member of Scientific Committee.*

August 2018, Nature-Based Solutions for Smart Cities Summer School, Mahilioŭ (Belarus).

November, 2017: International Seminar on the Transformation of Urban Spaces, Ruhr University (Germany), “Changing landscapes under contemporary processes of peri-urbanization”

February, 2017: Seminar on Sustainable Planning of Peri-urban landscape, Nagoya University (Japan)

2003-2005: Geographical Information Systems for Spatial Planning, Master in Soil and Water Engineering, Polytechnic of Milan (Italy)

Recent projects and researches

- Landscape Protection Plan of the Province of Syracuse (University of Catania, 2006-2007)

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- Landscape Protection Plan of the Province of Enna (University of Catania, 2007-2009)
- Web GIS of the Landscape Protection Plan of the Province of Enna (Regional Agency for Cultural and Heritage Protection, 2008)
- Environmental Monitoring for the highway Tirreno – Brennero (Environmental Protection Agency of Lombardy 2013-2014)
- SPECIAL (Spatial Planning for Communities In All Landscapes) in the framework of Intelligent Energy Europe Programme (IIE), 2013-2015
- FIR, University of Catania, Mapping Energy for Energy, Transport and Urban Planning (MEETUP), 2014-2015. Finanziato da Università di Catania.
- RILTUS, Rete Integrata di Laboratori Tecnologici delle Università Siciliane (R.I.L.T.U.S.), University of Catania, 2015. Funded by Regione Siciliana, Dipartimento Regionale delle Attività Produttive
- MEDETNA, University of Catania, 2015, Mediterranean Network for emerging nanomaterials (MedNETNA). Funded by Regione Siciliana, PO-FESR 2007-2013
- Land Use Plan of the city of Ragalna (University of Catania, 2016-2017)
- Planning Nature Based Solutions for contemporary metropolitan areas (PlaNatureS) (University of Catania, 2017-2018)
- Finanziamento Nazionale della Ricerca, Italian Ministry of University (2017-2018)
- Climate Change Management through Mitigation and Adaptation (AdapTM) – European Commission, Erasmus+ (Capacity building in the field of Higher Education) (2017-2020)
- INLAND (Innovative environmental governance for sustainable peri-urban landscapes) – German Federal Ministry of Education and Research (BMBF) (2019-2021)
- MARE – Marine, coastal and delta sustainability for SE Asia – European Commission, Erasmus+ (Capacity building in the field of Higher Education) (2020-2023)
- Land Use Plan of the city of Caltagirone (University of Catania, 2020-2021)

Most relevant scientific Memberships: Scientific board of the European Land Use Institute (www.eli-web.com); European Node of Global Land Project (<http://www.globallandproject.org>); Society of Urban Ecology (www.society-urban-ecology.org), International Association of Landscape Ecology (working group “[Urban and peri-urban governance](#)”), Società Italiana degli Urbanisti (www.siu.bedita.net).

Academic and Scientific Boards: PHD program in “Evaluation and Mitigation of Urban and Land Risks” Department Civil Engineering and Architecture (Candidate Supervisor), University of Catania. [European Land-Use Institute](#) (urban chapter)

Editorial boards: [Change and Adaptation in Socio-Ecological Systems](#) (Versita/de Gruyter), Acta Geobalcanica (<http://acta.geobalcanica.info>), [Socio-Ecological Practice Research](#) (Springer)

Reviewer for (selected): Landscape and Urban Planning, Land Use Policy, Sustainable Cities and Society, Sustainability, Ecological Indicators, Journal of Environmental Management, Landscape Ecology, Landscape Research, Urban Ecosystems, Agriculture Ecosystems & Environment, Journal of Applied Ecology, International Journal of Urban Sustainable Development, Earth Science Informatics, Urban Forestry & Urban Greening

Guest editor for Special Issues on peer reviewed international journal:

“[Performance-based urban planning to generate sustainable solutions for cities](#)”, in preparation,

Sustainable Cities and Society, co-Guest Editor

[“Building Regional Sustainability in Urban Agglomeration: Theories, Methodologies, and Applications”](#), in preparation, **Sustainability**, co-Guest Editor

“Sustainable Planning Tools and Approaches for New Urban Peripheries”, 2017, **Landscape and Urban planning 165**, Lead-Guest Editor

“Land Use planning and ecosystem services: trade offs and tools at different scales and sectors - Developing and Applying Ecosystem Services Indicators in Decision-Support at Various Scales”, 2016, **Ecological Indicators 61**, co-Guest Editor

Integration of ecological processes in land-use planning by using the concept of ecosystem services”, 2014, **Ecological Processes**, co-Guest Editor

“Information and participation in managing socio-ecological systems – tools, approaches, lessons learnt”, 2014, **iForest**, Lead Guest Editor

Recent publications (selection)

Books

La Rosa S. D., (2012). *Non Urbanised Areas in Metropolitan context: Between Ecosystem Services and urban sprawl*. 138 pp. ISBN: 978-1477574096, CreateSpace.

Peer reviewed ISI journals

- La Rosa D., Pappalardo V. (2019). Planning for spatial equity - A performance based approach for Sustainable Urban Drainage Systems. *Sustainable Cities and Society*, <https://doi.org/10.1016/j.scs.2019.101885>
- Pappalardo V., La Rosa D., (2019). Policies for Sustainable Drainage Systems in urban contexts within performance-based planning approaches. *Sustainable Cities and Society*, 101830, <https://doi.org/10.1016/j.scs.2019.101830>
- Wu C; Li J. , Wang C., Song C., Chen Y, Finka M., La Rosa D. (2019). Understanding the Relationship between Urban Blue Infrastructure and Land Surface Temperature. *Science of the Total Environment* 694C (2019) 133742. Doi: <https://doi.org/10.1016/j.scitotenv.2019.133742>
- Spyra M., Kleemann K, Cetin N. I., Vazquez Navarrete C. J., Albert C, Palacios-Agundez I, Ametzaga-Arregi I, La Rosa D., Rozas-Vasquez D, . Esmail B. A, Picchi P., Geneletti D., Konig H. J., Koo H. M., Kopperoinen L., Furst C. (2018). The ecosystem services concept: a new Esperanto to facilitate participatory planning processes? *Landscape Ecology*, doi:10.1007/s10980-018-0745-6
- Privitera R. La Rosa D, Reducing Seismic Vulnerability and Energy Demand of Cities through Green Infrastructure (2018), *Sustainability*, 10(8), 2591; doi: <https://doi.org/10.3390/su10082591>
- Privitera R., Palermo V., Martinico F., Fichera A., La Rosa D., (2018). Towards lower carbon cities: urban morphology contribution in climate change adaptation strategies. *European Planning Studies*, <https://doi.org/10.1080/09654313.2018.1426735>
- La Rosa D., Takatori C., Shimizu H., Privitera R. (2018). A planning framework to evaluate demands and preferences by different social groups for accessibility to urban greenspaces. *Sustainable Cities and Society* 36, 346–362
- La Rosa S.D., Geneletti D., Spyra M., Albert A., (2017), Special Issue on Sustainable planning approaches in urban peripheries, *Landscape and Urban Planning* 165, 172-176, doi: 10.1016/j.landurbplan.2017.04.004
- Pappalardo V., La Rosa D., La Greca P., Campisano A., (2017). The potential of GI application in urban runoff control for land use management: a preliminary evaluation from a southern Italy case study, *Ecosystem Services* 26, Part B, 345-354, <http://dx.doi.org/10.1016/j.ecoser.2017.04.015>
- Geneletti D., La Rosa S.D., Spyra M., Cortinovis C., (2017), A review of approaches and challenges for sustainable planning in urban peripheries, *Landscape and Urban Planning*, 165, 231-243, <http://dx.doi.org/10.1016/j.landurbplan.2017.01.013>
- La Rosa D., Privitera R., Barbarossa L., (2016). Assessing spatial benefits of urban regeneration programs in a highly vulnerable urban context: A case study in Catania, Italy, *Landscape and Urban Planning* 157, 180-192, doi: 10.1016/j.landurbplan.2016.05.031

Book chapters

- La Rosa S. D. (in press), "Urban agriculture and green infrastructure in Italy". in Artmann M. Breuste J, Cristian Ioja C, Qureshi S. eds "Making Green Cities - Concepts, Challenges and Practice", Springer "Cities and Nature" Series

- Barbarossa L., La Greca P., La Rosa D., 2018. Rischi urbani e territoriali. In Vinci I., La Greca P., eds. *Sicilia Rapporto sul Territorio 2018. Urbanistica Dossier*. Inu Edizioni, ISBN 978-88-76033-193-9, , pp. 41-45
- La Rosa D., Geneletti D., Spyra M., Albert C., Furst C., (2018). Sustainable Planning for Peri-urban Landscapes, in A. H. Perera et al. (eds.), *Ecosystem Services from Forest Landscapes: Broad Scale Considerations*, Springer International Publisher https://doi.org/10.1007/978-3-319-74515-2_5, pp. 89-126
- La Rosa S.D. (2015). Il ruolo delle Aree Non Urbanizzate per la fornitura di Servizi Ecosistemici in contesti periurbani. In Munafò M., Marchetti M., eds "Recuperiamo terreno. Analisi e prospettive per la gestione sostenibile della risorsa suolo", Franco Angeli Milano. ISBN: 978889172291
- Barbarossa L., La Greca P., La Rosa S.D., Martinico F. (2015). Città Metropolitana di Catania. In: (a cura di): Giuseppe De Luca G., Moccia F.D., *Immagini di territori metropolitani*. Inu Edizioni. ISBN: 9788876031328

Peer reviewed articles in other journal

- La Rosa S. D. (2019). Why is the inclusion of the Ecosystem Services concept in urban planning so limited? A knowledge implementation and impact analysis of the Italian urban plans. *Socio-Ecological Practice Research*.
- Kilbane, Simon J. and La Rosa, Daniele (2019) "Identifying and Classifying, Quantifying and Visualizing Green Infrastructure via Urban Transects in Rome, Italy and Sydney, Australia," *Proceedings of the Fábos Conference on Landscape and Greenway Planning: Vol. 6 , Article 42*. DOI: <https://doi.org/10.7275/3dd8-dg29>
- Martinico F., La Rosa, D., Privitera, R., Pappalardo, V., 2018. Improving research and education in climate change management by international networking in Mediterranean areas – the AdapTM project. *Urbanistica Informazioni* 278 SI "XI giornata di studi INU "
- La Rosa S. D., Privitera R.. (2018). Enhancing carbon sequestration potential of urban green spaces through transfer of development rights strategy. *Acta Geobalkanica* 4 (1), 17-23, doi: <http://dx.doi.org/10.18509/AGB.2018.02>
- La Rosa D., 2017. Is spatial planning taking advantage of Ecosystem services? A review of Italian experiences, *Urbanistica Informazioni* 272, pp. 832-835
- La Rosa S. D., (2016). I servizi Ecosistemici nei contesti metropolitani. *Sentieri Urbani* 24, 67-70.
- Barbarossa L., Privitera R., La Rosa D., 2016. Costruire la greencity. Disegno urbano ed efficienza energetica per il progetto della città sostenibile. *Progetto Sostenibile* 38, p. 18-23, ISSN: 1974-3327
- Pappalardo, V., La Rosa, S. D., La Greca P., Martinico F., 2015. Aree urbane a rischio allagamento: accrescere le capacità di resilienza con la pianificazione delle infrastrutture verdi. *Urbanistica Informazioni* 263 s.i "IX giornata di studi INU - Una politica per le città italiane", *Sessione Speciali* 1, 40-43

Conference proceedings (with review)

- Privitera R., La Rosa S.D. (2018). A green infrastructure strategy for reducing seismic vulnerability and enhancing energy efficiency in urban contexts. In Margani G., Sapienza V., Rodonò G., *SEISMIC AND ENERGY RENOVATION FOR SUSTAINABLE CITIES, CONFERENCE PROCEEDINGS*, Edicom Edizioni, ISBN 978-88-96386-56-9, pp. 270-281

- Ciatto C., Caponnetto R. La Rosa S.D., Calì I., (2018). A simplified methodology to assess seismic risk at district and building level. In Margani G., Sapienza V., Rodonò G., SEISMIC AND ENERGY RENOVATION FOR SUSTAINABLE CITIES, CONFERENCE PROCEEDINGS, Edicom Edizioni, ISBN 78-88-96386-56-9, pp. 69-81
- Privitera R., La Rosa S.D., La Greca P (2017). Transfer of Development Rights strategy for a minimal green infrastructure in dense urban contexts. In: AA. VV.. Atti della XIX Conferenza Nazionale SIU. Urbanistica E/E' Azione Pubblica, Firenze 12-14 giugno 2017. vol. 1, p. 1413-1419, Planum Publisher, Milano, ISBN: 9788899237127
- Pappalardo V, La Rosa S.D., Martinico F, Campisano A (2017). Le Infrastrutture verdi nelle politiche urbane e nei loro strumenti: verso la gestione sostenibile delle acque meteoriche. In: AA. VV.. Atti della XIX Conferenza Nazionale SIU. Cambiamenti. Responsabilità e strumenti per l'urbanistica al servizio del paese, Catania 16-18 giugno 2016. vol. 1, p. 785-793, Planum Publisher, Milano, ISBN: 9788899237080