

# CURRICULUM VITAE

## Valerio Cutini

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Department of Engineering of Energy, Systems,  
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## PROFESSIONAL CAREER AND EDUCATION

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|----------------|--|
| 2018 - present | Full Professor of Urban and Regional Planning, University of Pisa (Italy).   |
| 2014 - 2017    | Associate Professor of Urban and Regional Planning, University of Pisa (Italy).  |
| 1996 - 2013    | Assistant Professor of Urban and Regional Planning, University of Pisa (Italy).  |
| 1992 - 1994    | Post-Doctoral scholarship in Urban and Regional Planning, University of Pisa (Italy)   |
| 1994-1996      | Post-Doctoral scholarship in Urban and Regional Planning, University of Pisa (Italy)   |
| 1987 - 1991    | PhD in Building and Urban Engineering, University of Bologna (Italy).  |
| 1980 – 1986    | Master in Civil Engineering, University of Pisa (Italy)<br>Specialization: Building Engineering, Urban and Regional Planning.<br>110/110 |
| 1974 - 1979    | Classical High School Diploma, Liceo-Ginnasio Carducci-Ricasoli, Grosseto (Italy), 60/60   |

## ACADEMIC TEACHING

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|----------------|--|
| 1996 - present | University of Pisa: Urban Planning, Urban Engineering, Spatial Analysis and Urban Modelling (Graduate program in Civil Engineering, Master program in Building Engineering and Architecture) |
| 2016 - 2018    | University of Pisa: Master program in Building Information Modelling – BIM Manager   |
| 2012 - 2013    | University of Pisa: Master program in Environmental Law  |
| 2011 - 2012    | University of Pisa: Master program in Participation and Decision Making in Territorial Planning  |

2006 - 2007	University of Pisa: Master program in Methods and Techniques for Territorial Planning
2005 - 2007	University of Pisa: Master program in Geographic Information Systems
2004 - 2008	University of Pisa: Master program in Environmental Communication
2001 - 2006	University of Pisa: PhD program in Sciences and Methods for European Cities and Territory
2015 - 2023	Université de la Côte d'Azur, Nice (France): Master program 'Engineers for Smart Cities'
2012 - 2013	University of Naples Federico II: PhD program of Hydraulic, Transport and Territorial Systems
2012 - 2013	University of Chieti and Pescara Gabriele D'Annunzio: Federico II: PhD program in Architecture and Town Planning
2010 - 2016	Politecnico of Milan: Master program in Town Planning and Analysis of Urban and Territorial Systems
2009 - 2011	Accademia di Architettura of Mendrisio (CH): Master program in Quantitative Methods for Territorial Analysis
2005	Georgia Institute of Technology (USA): Visiting Professor at the Tauban College of Architecture
2002 - 2009	Accademia di Architettura of Mendrisio (CH): Master program in Mathematics and Territory. Growth of Urban Systems. Interaction Models of Architecture and Environment
2001 - 2002	Politecnico of Milan: Master program in Environmental Planning

## RESEARCH ACTIVITY

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**Main research themes:** spatial analysis and modelling of urban space, urban morphology, knowledge tools applied to urban modelling.

Member of AISRe (Italian Association of Regional Sciences), member of INPUT (Innovation in Urban and Territorial Planning), member of the European Research Group S4 – Spatial Simulation for the Social Science, member of the editorial board of EyesReg – online journal of AISRe (Italian Regional Science Association), member of the Board of PhD Course in Energy, Systems, Territory and Buildings Engineering of the University of Pisa, member of LISTA (Laboratory of Territorial and Environmental Systems Engineering) of the University of Pisa.

The research activity disseminated through publications (61 articles on peer-reviewed scientific journals, 7 scientific books, 72 chapters in scientific books or proceedings of international conferences) and symposia and conferences, the latest here listed below.

## RECENT PUBLICATIONS (2020-)

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1. CUTINI V, Averbakh M, Demydiuk O (2023). Urban space at the time of the war. Configuration and visual image of Kharkiv (Ukraine). *TeMA - Journal of Land Use, Mobility and Environment*, 16(1), 7-26. <https://doi.org/10.6093/1970-9870/9912>
2. CUTINI V (2023) Il divenire della disciplina urbanistica: il contributo di Valerio Cutini. *TeMA – Journal of Land Use, Mobility and Environment*, 1, pp. 85-86.
3. Pezzica C, CUTINI V, Bleil de Souza C, Aloini D (2022) The making of cities after disasters. Strategic planning and the Central Italy temporary housing process. In: *Cities*, 131 (104053), pp. 1-19.
4. Altafini D, Musolino D, Da Costa Braga A, CUTINI V (2022) Spatial configuration and the Messina Strait question: A discussion on Reggio-Calabria and Messina road-networks linkage. In: *Applied geography*, 146, pp. 1-16.
5. Benameur O, Zemmouri M, , CUTINI V, Leccese F, Salvadori G (2022) Exploration of environmental noise in Saharian oases on the basis of urban configurations: city of Biskra datasets. In: *Data in Brief*, vol. 43 (2), 108392, pp. 1-12.
6. CUTINI V (2022) Piano non finito e Piano non-finito: l'incompiuto nelle previsioni urbanistiche. In: Malfona L, Giorgetti L, Ruszczewski S (eds.) *Unfinished. Sul non finito*. Pisa: Pisa University Press, 68-75.
7. Mahfoud S, Bada Y, CUTINI V (2022) The impact of the urban structure on the public squares uses: a syntactic analysis. In: *International Review for Spatial Planning and Sustainable Development*, vol. 10 (2), pp. 92-110.
8. CUTINI V (2022) Cities at risk: spatial matrices of resilience and security. In: *Territorio*, vol. 97, DOI: 10.3280/TR2021-097010, pp. 77-84.
9. Giuliani F, De Falco A, CUTINI V (2022) Rethinking earthquake-related vulnerabilities of historic centers in Italy: insights from the Tuscan area. In: *Journal of Cultural Heritage*, vol. 54, 102261, pp. 79-93.
10. Pezzica C, Altafini D, CUTINI V (2022) Urban-regional dynamics of street network resilience The spatial outcomes of Genoa's and Bologna's bridge crashes. In: Van Nes A, De Koning R (eds.) Proceedings of the 13th Space Syntax Symposium. Western Norway University of Applied Sciences (HVL), Bergen, Norway.
11. Mara F, Altafini D, CUTINI V (2022) Urban design, space syntax and crime. An evidence-based approach to evaluate urban crime geographical displacement and surveillance efficiency. In: Van Nes A, De Koning R (eds.) Proceedings of the 13th Space Syntax Symposium. Western Norway University of Applied Sciences (HVL), Bergen, Norway.
12. Altafini D, Poloni F, Meini B, Bini D, CUTINI V (2022) Markov-Chain-based centralities and Space Syntax' Angular Analysis: an initial overview and application. In: Van Nes A, De Koning R (eds.) Proceedings of the 13th Space Syntax Symposium. Western Norway University of Applied Sciences (HVL), Bergen, Norway.
13. Altafini D, CUTINI V (2022) Towards a Spatial Approach to Territorialize Economic Data in Urban Areas' Industrial Agglomerations. In Gervasi O, et al. (eds.) *Computational Science and its Applications – Lecture Notes in Computer Science*, vol. 13377. Cham: Springer, 370-386.
14. Mara F, CUTINI V (2022). Digital City-Surveillance Models and Urban Security: Integrating Isovist and Space Syntax in Realising Adaptive Decision Support Systems. In Gervasi O, et al. (eds.) *Computational Science and its Applications – Lecture Notes in Computer Science*, vol. 13377. Cham: Springer, 353-369.
15. Altafini D, Da Costa Braga A, CUTINI V (2022) Twin-cities over the Messina Strait : a discussion on Reggio Calabria and Messina road-networks linkage. In: Annual Conference Proceedings of the XXVIII International Seminar on Urban Form. University of Strathclyde Publishing, Glasgow, pp. 821-828.
16. Altafini D, Da Costa Braga A, CUTINI V (2022). The influence of industrial complexes morphology on industrial placement. In AA.VV., *Cities as Assemblages – Proceedings of the XXVI International Seminar on Urban Form 2019*, vol. 3. 440-450.

17. CUTINI V, Rusci S (2022). Uso, consumo e riuso: l'insostenibile reversibilità del costruire. In: Arcidiacono A, Di Simine D, Ronchi S, Salata S (eds.) *Consumo di suolo, servizi ecosistemici e green infrastructures: metodi, ricerche e progetti innovativi per incrementare il capitale naturale e migliorare la resilienza urbana*. Roma: INU Edizioni, 72-76.
18. Altafini D, Da Costa Braga A, CUTINI V (2022). The influence of industrial complexes morphology on industrial placement. In AA.VV., *Cities as Assemblages – Proceedings of the XXVI International Seminar on Urban Form 2019*, vol. 3. 440-450.
19. CUTINI V (2021). Alla ricerca della sintassi dello spazio urbano. Fondamenti concettuali e percorsi evolutivi. In: Albeverio S, Giordano P, Vancheri A (eds.) *Metodi e Modelli Matematici per le Dinamiche Urbane*, vol. 149. Cham: Springer, 249-282.
20. CUTINI V (2021) Cities at risk: spatial matrices of resilience and security, *Territorio*, vol. 97, pp. 77-84.
21. CUTINI V (2021) Cities at the time of Covid; and after. In: *Scienze Regionali*, vol. 3/2021, 1720-3929 DOI: 10.14650/101718, pp. 91-98.
22. CUTINI V, Rusci S (2021) The virus was already among us. Temporary and permanent effects of Covid19 on cities. In: *Scienze Regionali*, vol. 3/2021, 1720-3929 DOI: 10.14650/101723, pp. 107-114.
23. CUTINI V, Altafini D (2021) Territorial disparities in Tuscan industrial assets: a model to assess agglomeration and exposure patterns. In: *TeMA – Journal of Land Use, Mobility and Environment*, v. 14, n. 2, DOI: 10.6092/1970-9870/7976, pp. 161-176.
24. Giuliani F, De Falco A, CUTINI V (2021) Unpacking seismic risk in Italian historic centres: A critical overview for disaster risk reduction. In: *International Journal of Disaster Risk Reduction*, vol. 59, 102261, pp. 1-15.
25. CUTINI V (2021) Le debolezze della pianificazione debole. In: *Scienze Regionali*, vol. 1/2021, 1720-3929 DOI: 10.14650/97108, pp. 107-114.
26. Giuliani F, De Falco A, CUTINI V, Di Sivo M (2021) A simplified methodology for risk analysis of historic centers: the world heritage site of San Gimignano, Italy. In: *International Journal of Disaster Resilience in the Built Environment*, 1759-5908 DOI: 10.1080/13563475.2021.1875810, pp. 1-19.
27. Altafini D, Braga A, CUTINI V, (2021) Planning sustainable urban-industrial configurations: relations among industrial complexes and the centralities of a regional continuum. In: *International Planning Studies*, DOI: 10.1080/13563475.2021.1875810, pp. 1-21.
28. CUTINI V, Pezzica C (2021) Linking space syntax and cluster analysis to design and plan temporary housing neighborhoods: A taxonomy of sites in Norcia. In: *Journal of Design for Resilience in Architecture and Planning*, vol. 2, Special Issue, pp. 89-114.
29. CUTINI V, Di Pinto V (2021) The inner geography of hill-top towns. A discussion on the effects of altimetry on configuration. In: *Forma Civitatis: International journal of urban and territorial morphological studies (IJUTMS)*, vol. 1, N. 1, pp. 26-44.
30. Pezzica C, CUTINI V, Bleil de Sousa C (2020) Mind the gap: state of the art on decision-making related to post-disaster housing assistance. In: *International Journal of Disaster Risk Reduction*, 101975, pp. 1-35.
31. CUTINI V, Altafini D, (2020) Homothetic Behavior of Betweenness Centralities: A Multiscale Alternative Approach to Relate Cities and Large Regional Structures, *Sustainability*, vol. 12, 7925, pp. 1-19.
32. CUTINI V, Pezzica C (2020) Street Network Resilience Put to the Test: The Dramatic Crash of Genoa and Bologna Bridges, *Sustainability*, vol. 12, 4706, pp. 1-20.
33. CUTINI V, Giuliani F, De Falco A, (2020) The role of urban configuration during disasters. A scenario-based methodology for the post-earthquake emergency management of Italian historic centres, *Safety Science*, vol. 127, pp. 1-18.
34. CUTINI V, Di Pinto V, Rinaldi A M, Rossini F (2020) Proximal Cities: Does Walkability Drive Informal Settlements?, *Sustainability*, vol. 12, 756, pp. 1-20.
35. CUTINI V, Altafini D (2020). Tuscany configurational atlas: a GIS-based multiscale assessment of road-circulation networks centralities hierarchies. In: Gervasi O et al. (Eds) *Computational Science and its Applications, Lecture notes in Computer Science*. Cham: Springer Nature, p. 291-306.

## **RECENT SCIENTIFIC CONFERENCES (2020-)**

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- 2<sup>nd</sup> International Conference on Space Syntax, Sétif, 7-8 December 2022
- 12<sup>th</sup> International Conference on Innovation in Urban and Regional Planning (INPUT 2022), Cagliari, 9-11 September 2022
- 22<sup>nd</sup> International Conference on Computational Science and its Applications (ICCSA 2021), Malaga, 13-15 September 2022
- 13<sup>th</sup> International Space Syntax Symposium (13SSS), Bergen, Norway, 20-24 June 2022
- 1<sup>st</sup> Nobel X Urbanism Conference, Oslo, 8-10 December 2021
- XXIII Conferenza Nazionale SIU Società Italiana degli Urbanisti, Turin, 17-18 June 2021
- 21<sup>st</sup> International Conference on Computational Science and its Applications (ICCSA2021), Cagliari, 13-16 September 2021.
- 11<sup>th</sup> International Conference on Innovation in Urban and Regional Planning (INPUT 2021), Catania, 8-10 September 2021.
- XXVIII International Seminar on Urban Form (ISUF2019), Glasgow (UK), 29 June - 3 July 2021
- 1<sup>st</sup> International Space Syntax Workshop (1SSW), Biskra (Algeria), 16-18 February 2020.
- 5<sup>th</sup> International Symposium on Formal Methods in Architecture (5FMA), Lisbon, Portugal, 13-16 October 2020

## **RECENT RESEARCH CONTRACTS WITH PUBLIC INSTITUTIONS (2020-)**

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| 2022 - 2023 | Variation on the Master Plan and Urban Regulation of the Municipality of Viareggio for the redevelopment of the Southern urban edge – Darsena district<br>- financing institution: Municipality of Viareggio (LU)<br>- principal investigator: Prof. Valerio Cutini |
| 2022        | Sustainable Mobility Plan of the University of Pisa<br>- financing institution: University of Pisa<br>- principal investigator: Prof. Valerio Cutini  |
| 2020        | Construction of the opensource database Geographic Information System for the activities management plan<br>- financing institution: Consorzio 4 Basso Valdarno – Regione Toscana<br>- principal investigator: Prof. Valerio Cutini                                 |
| 2020        | Training programme for the computer and technological knowledge for territorial data management   |

- financing institution: Municipality of Collesalveti (LI)
- principal investigator: Prof. Valerio Cutini

2020 Urban and mobility analysis for the accessibility of the university pole of chemistry and biology of the University of Pisa

- financing institution: University of Pisa
- principal investigator: Prof. Valerio Cutini – Prof. Massimo Losa

## **CULTURAL AND MANAGEMENT ACTIVITIES**

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Member of AISRe (Italian Association of Regional Sciences)

Member of INPUT (Innovation in Urban and Territorial Planning)

Member of the European Research Group S4 – Spatial Simulation for the Social Science,  
Member of the Board of PhD Course in Energy, Systems, Territory and Buildings  
Engineering of the University of Pisa

Member of LISTA (Laboratory of Territorial and Environmental Systems Engineering) of  
the University of Pisa.

Vice-Dean of the Department of Engineering of Energy, Systems, Territory and Buildings  
– University of Pisa

Member of the National Committee for the National Scientific Habilitation (ASN) 08/F1  
2021-2023 08/F1

According to law 679/2016 of the Regulation of the European Parliament of 27th April 2016, I hereby express my consent to process and use my data provided in this CV.

30<sup>th</sup> April 2023

