

# 10<sup>th</sup> International Conference on Innovation in Urban and Regional Planning

## SESSION: 1 – TERRITORIAL MODELLING: STATE-OF-ART AND FUTURE DEVELOPMENT

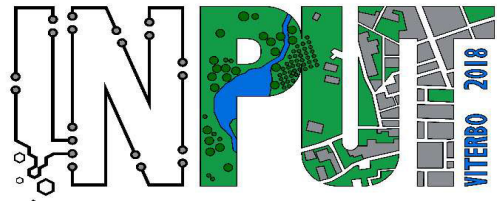
5 September - Room 4 - 14:00-17:00 n°

Authors

title

**Coordinators: Domenico Camarda, Donatella Cialdea, Giampiero Lombardini**

1	Donato Di Ludovico, Federico D'Ascanio	New integration models for local development, the Territorial Frames
2	Giorgio Limonta, Mario Paris	Supporting retail planning through territorial models: approaches, innovations and opportunities
3	D.Camarda, D.Esposito, G.Mastrodonato	The cognition of space in outdoor contexts: notes from an urban spacescape experimentation
4	Marta Bottero, Marina Bravi, Caterina Caprioli, Federico Dell'Anna, Giulio Mondini, Giulia Vergerio	Agent-Based Modelling and Geographical Information System for the evaluation of eco-districts scenarios
5	Elena Cervelli, Stefania Pindozi, Donatella Cialdea	Land development support in marginal areas, as opportunity of environmental implementation
6	Vanessa Assumma, Marta Bottero, Roberto Monaco, Ana Jacinta Soares	Mathematical tools for landscape evaluation: Ecology and Economics in a district of Northern Italy
7	Giampiero Lombardini	Geosimulation methods and techniques to analyse settlement morphologies and territorial development cycles
8	Silvia Dalzero	The Land of the border
9	Donatella Cialdea, Chiara Pompei	Landscape urbanism' interpretative models a new vision for the tiber river



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## SESSION: 2 – ENVIRONMENT, PLANNING AND DESIGN: THE ROLE OF MODELLING

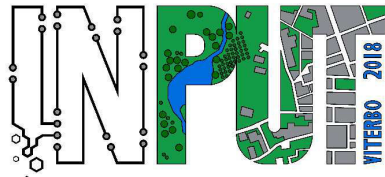
6 September - Room 5 - 9:00-13:00 n°

Authors

title

**Coordinators: Ivan Blečić, Carmela Gargiulo,  
Francesco Zullo**

1	Francesca Pirlone, Ilenia Spadaro	The places and times in risk management
2	Carmela Gargiulo, Floriana Zucaro, Federica Gaglione	Accessibility, built environment and population ageing: a method proposal
3	Floriana Zucaro, Rosa Morosini	Soil saving, optimization and sustainable use in the Italian regional laws
4	Carmela Gargiulo, Rosaria Battarra, Maria Rosa Tremiterra	The resilience of urban coastal areas to flooding events: urban planning strategies and actions
5	Barbara Ferrari, Valerio Quatrini, Anna Barbati, Piermaria Corona, Emanuela Masini, Dalila Russo	Conservation and enhancement of the Green Infrastructure as Nature-based solution for Rome's sustainable development
6	Denis Maragno, Francesco Ruzzante, Vittore Negretto, Davide Longato	Building information through Remote Sensing data for climate-proof adaptation framework
7	Davide Longato, Denis Maragno, Elena Gissi, Francesco Musco	Ecosystem services for spatial planning: a remote-sensing-based mapping approach
8	Tanja Congiu, Marco Dettori	Urban environment and health outcomes. Evaluation of the relationships between spatial factors and pedestrian injuries
9	Giulia Motta Zanin, Stefania Santoro	Integrating participatory modelling in risk management
10	Massimo Palme, Francisco Flores, Leonardo Romero	Surface temperature variation and urban heat island intensity in Antofagasta, Chile
11	Rossini L., Severini M., Contarini M., Speranza S.	Distributed Delay Models: a proposal of application in urban context to forecast pest insects's life cycle
12	Massimo Palme, Paola Bravo, Leonardo Romero	Hydro-climatic vulnerability in Antofagasta: combining simulation results, historical rainfall data and multi-criteria variables selection to generate a map of risk
13	Raffaele Pelorosso, Federica Gobattoni, Antonio Leone	The low-entropy city. A modelling approach to close water cycles



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### SESSION: 3 – RURAL LANDSCAPES AND WELL-BEING: TOWARDS A POLICY-MAKING PERSPECTIVE

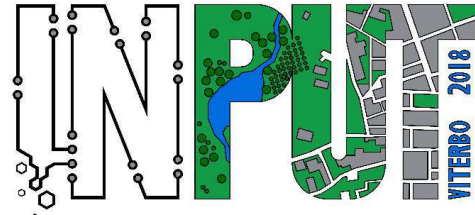
6 September - Room 4 - 9:00-13:00

n°	Authors	title
1	Giulio Senes, Luca Pernechele, Natalia Fumagalli, Giuseppe Barbiero and Rita Berto	Natural rural landscape perception and restorativeness
2	Tony Urbani	The vision of the Lake.
3	Raffaele Cortignani, Federica Gobattoni, Raffaele Pelorosso, M. Nicolina Ripa	People's willingness to pay for extensive and diversified rural landscapes: a cost-benefit analysis related to green payment in Central Italy
4	Daniele Torregiani, Stefano Benni, Patrizia Tassinari	Rural landscape analysis and classification for sustainable management and planning
5	Giuseppe Modica, Salvatore di Fazio	Tranquil places mapping in natural protected areas. A case study in the Serre natural park (Italy)
6	Angel Burov	Spatial relations in the benefits from ecosystem services. The case study of Bratsigovo municipality
7	Maurizia Sigura, Marco Vizzari, Francesco Boscutti	Evaluating ecological connectivity at landscape scale in urbanized areas: a case study in the north east plain area of Italy
8	Fabio Recanatesi, M.Nicolina Ripa, Giuliani C., Rossi C., A. Leone	Assessment of stormwater runoff management practices and governance under urbanization. An analysis of a periurban area in the metropolitan area of Rome.
9	Elena Cervelli, Ester Scotto di Perta, Stefania Pindozi	Historical land use change and landscape pattern evolution study as support of landscape development policies in Vesuvio National Park
10	Samuele De Petris, Piero Boccadoro, Enrico Borgogno Mondino, Barbara Drusi	Detection and Characterization of Palm Oil Landscape through MODIS EVI time series
11	Laura Grassini	Water technologies and rural development in the Apulia region: multi-sectoral and multi-functional approaches to analysis and planning

### SESSION: 3 – RURAL LANDSCAPES AND WELL-BEING: TOWARDS A POLICY-MAKING PERSPECTIVE

6 September - Room 4 - 14:00-16:30

n°	Authors	title
12	Andrea De Montis, Elisabetta Anna Di Cesare, Antonio Ledda, Daniele Trogu, Michele Campagna, Gianluca Cocco, Giovanni Andrea De Montis,	Integrating climate change adaptation and spatial planning: an assessment for Sardinia, Italy
13	Elisabetta Anna Di Cesare, Antonio Ledda, Daniele Trogu, Michele Campagna, Gianluca Cocco, Giovanni	Governance and adaptation to climate change: an investigation in Sardinia
14	Luisa Carbone	The role of the GIS in the empowerment process for the requalification of slow territories
15	Andrea De Montis, Antonio Ledda, Vittorio Serra	Landscape defragmentation policy and planning: an assessment of strengths and weaknesses



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## SESSION: 4 – SMART PLANNING

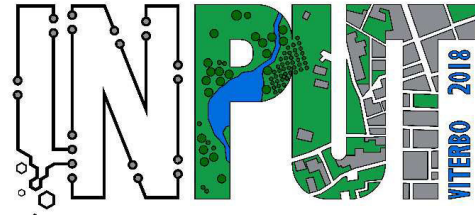
6 September - Room 12 - 14:00-16:30 n°

Authors

title

**Coordinators: Romano Fistola, Giampiero Lombardini, Roberto Gerundo**

1	Burcu ASLAN, Cankut D.	Analysis of Zoning Plan Changes in an Urban Regeneration Area
2	Giuliana Quattrone	Building Information Modeling (BIM) and Geographic Information Systems (GIS) for the management of cultural heritage in the city
3	Giuseppe Mazzeo	Italian metropolitan cities. A quantitative analysis aimed at the implementation of governance and innovation policies
4	Eleonora Sottile, Tommaso Giacchetti, Francesco Piras, Daniele Calli, Vittoria Concas, Giovanni Tuveri, Leonardo Zamberlan, Stefano Carrese, Italo Meloni	An innovative smartphone based strategy for university travel demand management
5	Giampiero Lombardini	Using BIM to build urban regeneration scenarios
6	Rocco Papa, Gerardo Carpentieri	Measuring accessibility of railway stations in the Campania Regional Railway Network drawing on node-place modelling



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## SESSION: 5 – MAINTENANCE, UPGRADING AND INNOVATION IN CULTURAL HERITAGE

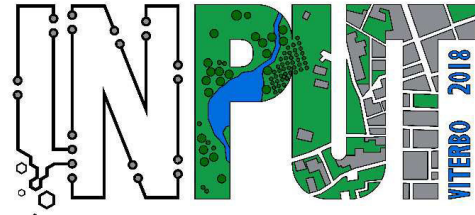
5 September - Room Radulet - 14:00-17:00 n°

Authors

title

**Coordinators: Rosa Anna La Rocca, Beniamino Murgante, Lorena Fiorini**

1	E. Pozzobon, A. Santucci, L. Santini	Christian Catholic buildings, an increasingly underused patrimony. A MultiCriteria Analysis technique for choosing those to be revived and enhanced.
2	Ewa Jolanta Karwacka, Luisa Santini, Denise Iitalia	The Chartreuse in Calci. Application of a Multi Criteria Decision Making Method (MCDM) to its refunctionalization
3	Julia Abreu	Living in the historic center, a dialogue between the old and the new
4	Nađa Beretić, Arnaldo Cecchini, Zoran Đukanović	Socio-Spatial Capacity and Participative Heritage Tourism: Geo-Mining Park in Sardinia Case
5	Michela Tiboni Francesco Botticini	Enhance the historical city with the new technologies
6	P. Portrandolfi, A. Azzato	Methodological and procedural approaches for the implementation of cognitive, interpretative and managerial frameworks in historical contexts of high value: the study case of Matera



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## SESSION: 6 - URBAN AND ENVIRONMENTAL PLANNERS: WHO IS THE CLIENT? THE PLANNERS JOBS IN A NEW MILLENNIUM

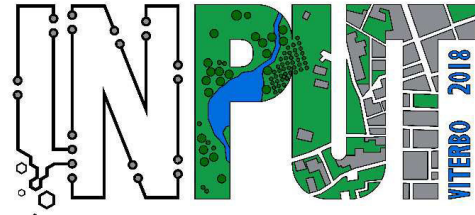
6 September - Room 6 - 9:00-13:00 n°

Authors

title

**Coordinators: Antonio Leone, Laura Ricci, Arnaldo Cecchini**

1	Simone Rusci	The social preferences role in urban planning.
2	Mauro Francini, Giusi Mercurio, Annunziata Palermo, Maria Francesca Viapiana	Consistency between the Minimum Environmental Criteria and the ITACA Protocol criteria concerning the quality of the intervention site
3	Mauro Francini, Lucia Chieffallo, Annunziata Palermo, Maria Francesca Viapiana	Biourbanism: the role of environmental systems in urban regeneration processes
4	Walter Lorenzetti, Leonardo Lami, Davide Alberti	G3W-SUITE, publishing and managing cartographic QGIS projects on the web The use in the "Foreste Casentinesi, Monte Falterona e Campigna" National Park
5	Roberto De Lotto	Considerations in between the technical and the political roles
6	Tanja Congiu, Francesco Lubrano, Luca Pulosu, Pietro Ruiu, Valentina Talu, Giulia Tola, Giuseppe Andrea Trunfio	Gap Reduce. A Research & Development project aiming at developing a tool for promoting quality of urban life of people with Autism Spectrum Disorder
7	Roberta Guido, Nicola Solinas, Loredana Tedeschi, Valentina Talu	Policies and projects for social and collaborative housing and urban regeneration processes. The case of the city of Sassari
8	Maria Célia Furtado Rocha, Gilberto Corso Pereira	Urban Planning in Salvador de Bahia: representations of a peripheral metropolis



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## SESSION: 7 – BIG DATA AND DATA MINING

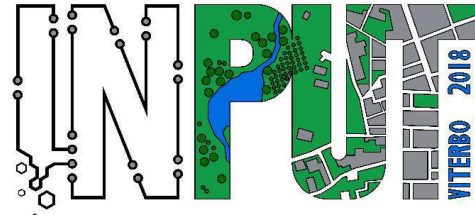
6 September - Room 5 - 14:00-16:30 n°

Authors

title

**Coordinators: Angioletta Voghera, Luigi La Riccia,  
Giuseppe Trunfio**

1	Elif Kırpık	Big/Open Data Applications in Urban Planning: Australian Case
2	Sylvie Occelli, Alessandro Sciullo	Integrating data on distribution, characteristics and determinants of road accidents: a territorial analysis approach.
3	Monica Sebillio, Giulana Vitiello, Dimitri Dello Buono, Michele Grimaldi	Comune Sicuro: an sematic web-oriented approach in support of the risk management.
4	Pablo Vieira Florentino, Gilberto Corso Pereira, Maria Célia Furtado Rocha	Knowledge about urban environment through Social Network Analysis: two cases
5	Ivan Blečić, Arnaldo Cecchini, Giuseppe A. Trunfio	A Machine Learning Approach for Assessment of Perceived Walkability
6	Ivan Blečić, Arnaldo Cecchini, Maurizio Minchilli, Valentina Talu, Loredana F. Tedeschi, Giuseppe A. Trunfio	A Decision Support System on Derelict Buildings for Urban Regeneration
7	Marichela Sepe	Tangible and intangible aspects in the innovative promotion and fruition of the Unesco sites



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## SESSION: 8 – ICT & MODELS: PLANNING FOR COMMUNITIES

5 September - Room 5 - 14:00-17:00 n°

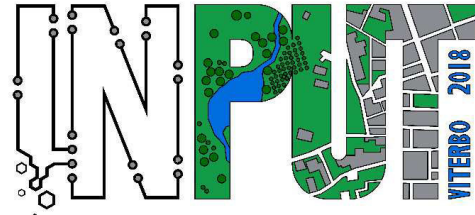
Authors

title

**Coordinators: Romano Fistola, Sylvie Ocelli,  
Michele Campagna**

1	Camilla Pezzica, Valerio Cutini, Clarice Bleil de Souza	Opportunities for the use of collaborative 3D urban mapping in post-disaster situations
2	Luisa Santini, Alessandro Santucci, Anna Maria Miracco	Urban regeneration. Application of Spatial Multicriteria Analysis for the redevelopment of the military barracks in the historic center of Pisa
3	Alessandro Seravalli, Leonardo Amadio	Taxonomic model for visualization and monitoring of actual liquid cities
4	Romano Fistola, Rosa Anna La Rocca	Augmenting the Smart City: a “new view” for the urban planning
5	Tullia Valeria Di Giacomo	Implementing GIS technology: a Spatial Decision Support System tool to study the impacts of land uses
6	M.R. Stufano Melone, D. Camarda, S. Borgo, D. Borri	Toward clarification of meanings via ontological analysis method in environmental planning processes and actions





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## Special session: DID WE LEARN LESSONS? FOLLOWING THE PATHS OF GIOVANNI RABINO

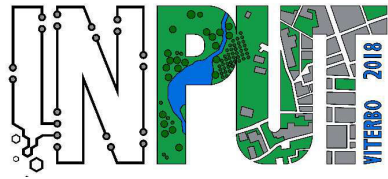
6 September - Room 6 - 14:00-16:30 n°

Authors

title

Coordinators: Arnaldo Cecchini, Valerio Cutini, Ivan Blečić

1	Valerio Cutini	Models at the time of weak planning
2	Sylvie Occelli	Long range regional transportation planning and model requirements: some insights from the case of Piedmont
3	Valerio Cutini, Valerio Di Pinto	Informal settlements, complexity and urban models: is there any order in autopoietic urban systems?
4	M.R. Stufano Melone, D. Camarda, D. Borri	Modelling Knowledge for Planning: Toward an ontology for the city
5	Giuseppe Las Casas, Beniamino Murgante, Francesco Scorza	From the rules to the models and vice-versa for a new planning rationality.
6	Arnaldo Cecchini	On the importance of curious research and exploration of uncommon and improbable roads



## 10<sup>th</sup> International Conference on Innovation in Urban and Regional Planning

### Special session: ECOSYSTEM-BASED AND PERFORMANCE-BASED APPROACHES FOR SPATIAL PLANNING

6 September - Room Radulet - 9:00-13:00

**Coordinators: Daniele La Rosa, Federica Gobattoni, Raffaele Pelorosso, Corrado Zoppi**

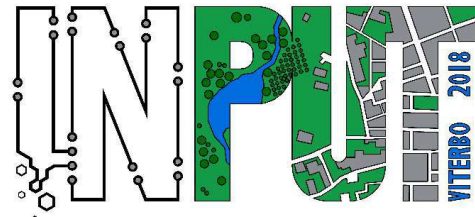
n°	Authors	title
1	Paolo Picchi, Sven Stremke	Co-designing energy landscapes: Application of ecosystem services participatory mapping and geographic information systems in the exploration of low carbon futures
2	Francesco Scorza, Arianna Mazzariello, Angela Pilogallo, Giuseppe Las Casas, Beniamino Murgante	Assessing natural-anthropogenic land use transitions through ecosystem services analysis: the case of renewable energy sources plants in Basilicata.
3	Ignazio Cannas, Daniela Ruggeri	Relationships between ecosystem services and ecological networks into spatial planning. A case study from Flanders
4	Federica Isola, Francesca Leccis	Inclusion of ecosystem-based approaches in the regulations of Marine Protected Areas. An experimental procedure developed in Sardinia. Part 1.
5	Maddalena Floris, Salvatore Pinna	Inclusion of ecosystem-based approaches in the regulations of Marine Protected Areas. An experimental procedure developed in Sardinia. Part 2.
6	Chiara Cortinovis, Davide Geneletti	Using ecosystem service knowledge to design innovative performance-based planning approaches
7	Federica Gobattoni, Raffaele Pelorosso, Antonio Leone	Hydrological resilience and nature-based solutions: a modelling approach to support spatial performance-based planning
8	Viviana Pappalardo, Daniele La Rosa	Performance-based planning approaches for Sustainable Urban Drainage Systems in high density urban contexts
9	Marco Galli, Federica Gobattoni, Raffaele Pelorosso, Maria Nicolina Ripa, Antonio Leone	Performance-based planning and climate adaptation: a modelling approach for green scenario evaluation
10	Gabriella Graziuso, Michele Grimaldi, Isidoro Fasolino, Roberto Gerundo	Methodological proposal for a performance-based planning of community facilities and services.
11	Angioletta Voghera, Benedetta Giudice	Ecological-based planning. Italian and French experimentations

### Special session: ECOSYSTEM-BASED AND PERFORMANCE-BASED APPROACHES FOR SPATIAL PLANNING

6 September - Room Radulet - 14:00-16:30

**Coordinators: Daniele La Rosa, Federica Gobattoni, Raffaele Pelorosso, Corrado Zoppi**

n°	Authors	title
12	Sabrina Lai, Federica Leone, Corrado Zoppi	Implementing green infrastructures beyond protected areas. A study concerning Sardinia, Italy
13	Gabriella Pultrone	What Planning for Facing Global Challenges? Approaches, Policies, Strategies, Tools, Ongoing Experiences in Urban Areas
14	Ivan Blečić, Arnaldo Cecchini	On Antifragile Planning
15	Mauro Francini, Sara Gaudio, Annunziata Palermo, Maria Francesca Viapiana	Resilient criteria to choose strategic road network



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## special session: GEODESIGN

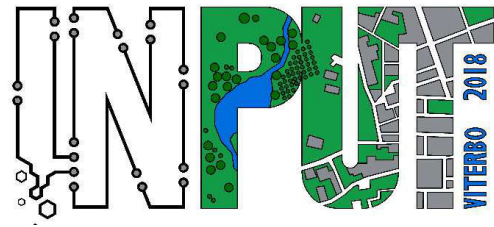
5 September - Room 6 - 14:00-17:00 n°

Authors

title

**Coordinators: Michele Campagna**

1	Rocha Nicole, Rezende Christian, Hrishikesh Ballal, Moura Ana Clara M.	From the logic of desktop to web services applications in GIS: the construction of basic evaluation maps to support design and management.
2	Michele Campagna	New data sources in Geodesign
3	Chiara Cocco, Michele Campagna	Towards a planning and design process analytics
4	Elisabetta Anna Di Cesare, Michele Campagna	Shaping the spatial planning process with BPMN: a case study in Sardinia, Italy
5	Ana Clara Mourão Moura, Priscila Lisboa De Paula, Susanna Patata	Participatory urban planning - The application of Geodesign method in the Dandara illegal settlement in Belo Horizonte, Brazil.
6	Emil Lanfranchi, Francesco Fonzino	A Geodesign project on Post-Earthquake comprehensive rehabilitation of Norcia in the Umbria region of Italy
7	Pedro Casagrande & Ana Clara Moura	The Geological Workshop of Geodesign for Landscape Planning
8	Ana Clara Mourão Moura, Simona Tondelli, Aurelio Muzzarelli	Complementary web-based geoinformation technology to geodesign practices in strategic decision-making stages of co-creation in territorial planning.
9	Francesco Scorza, Angela Padula, Pietro Fiore, Giuseppe Las Casas, Beniamino Murgante	Collaborative approach in strategic development planning for small municipalities: applying Geodesign methodology and tools for a new municipal strategy in Scanzano Jonico.
10	Francesco Scorza, Angela Padula, Pietro Fiore, Giuseppe Las Casas, Beniamino Murgante	Facing Urban Regeneration issues through Geodesign approach: Gravina in Puglia case.
11	Maria Cerreta, Pasquale Inglese, Chiara Mazzarella	A hybrid decision-making process for wastescapes remediation. geodesign, LCA, urban living lab



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## Special session: GFOSS: GEOGRAPHICAL OPEN SOURCE SOFTWARE FOR LOCAL PLANNING

7 September - Room Radulet - 9:00-11:00 n°

Authors

title

**Coordinators: Matteo Ghetta**

1	Erika Ceriana Mayneri, Rocco Pispico, Luca Lanteri e Stefano Campus	ERIKUS, a FOSS4G tool for risk management.
2	Rocco Pispico, Luca Franzì	Using open geodata in land-planning activities of Public Administration with FOSS4G
3	Walter Lorenzetti, Leonardo Lami, Francesco Boccacci	G3W-SUITE, a specific suite for publishing and managing cartographic QGIS projects on the web
4	Luca Delucchi, Luca Bezzi and Peter King	Free and Open Source Unmanned Vehicles
5	Matteo Ghetta	D3 plots with DataPlotly plugin for QGIS