

Fabbrica della Conoscenza

XV INTERNATIONAL FORUM

Le Vie dei
Mercanti

Carmine Gambardella



WORLD HERITAGE
and DISASTER

WORLD HERITAGE and DISASTER

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WORLD HERITAGE and DISASTER
Knowledge, Culture and Rapresentation
Le Vie dei Mercanti _ XV International Forum

Carmine Gambardella
WORLD HERITAGE and DEGRADATION
Smart Design, Planning and Technologies
Le Vie dei Mercanti
XV Forum Internazionale di Studi

editing: **Ciro Ferrandes**

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Memory

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**WORLD HERITAGE and DISASTER
Knowledge, Culture and Representation**

**Le Vie dei Mercanti
XV Forum Internazionale di Studi**

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Peer review

Scholars has been invited to submit researches on theoretical and methodological aspects related to Smart Design, Planning and Technologies, and show real applications and experiences carried out on this themes.

Based on blind peer review, abstracts has been accepted, conditionally accepted, or rejected.

Authors of accepted and conditionally accepted papers has been invited to submit full papers. These has been again peer-reviewed and selected for the oral session and publication, or only for the publication in the conference proceedings.

Conference report

300 abstracts and 550 authors from 30 countries: Albania, Australia, Benin, Belgium, Bosnia and Herzegovina, California, Chile, China, Cipro, Cuba, Egypt, France, Germany, Italy, Japan, Jordan, Kosovo, Malta, Massachusetts, Michigan, New Jersey, New York, New Zealand, Poland, Portugal, Russia, Slovakia, Spain, Tunisia, Turkey.

200 papers published after double blind review by the International Scientific Committee

Preface

A theme, that in addition to highlighting the word DISASTER, wants, as in all the editions of the Forum, place the emphasis on the word Culture, the systemic product of knowledge and applications, which has a plastic strength as Nietzsche pointed out, capable of healing broken parts, to recover lost parts, and as such belongs to humanity, the Man Artifex and Faber in its historical self-reproduction.

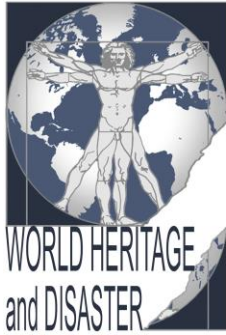
A faith in humanity's ability to achieve ever higher levels of knowledge to offer as patrimonial value, beyond disastrous contingencies, which contains reparative stem cells and also fortifies evolutionary processes involving the Skills and Work of Man, the fate of Landscapes, Territories, Cities, Architecture and Archaeology as Traces of Geography of the past that emerges in the Geography of the Present.

For these reasons, in Naples on 15 and Capri, on 16 – 17 June, the 15th "International Forum Le Vie dei Mercanti" will be held. An established event that in three decades has seen the participation of a scientific community from around the world grow, discussing multidisciplinary topics relating to the Landscape, Cultural Heritage, Government of the Territory, Design and Economics.

Therefore, I expect, along with the International Scientific Committee, contributions of studies and research relating to theories, concepts, applications, best practices to protect and preserve, in order to not only transmit to future generations the tangible and intangible patrimony of the World Heritage but also to orient the design processes and innovative planning for the modification that derive from the humus of identities and roots of the places, the regenerating sap of the places and of a "new", which, citing Argan, possesses a contemporary of what it does not have the same date.

The location is exceptional. Campania, with six sites included in the World Heritage List, two UNESCO Man and Biospheres, two assets on the List of Intangible Heritage, is one of the richest regions in the world for cultural and landscape heritage. It is therefore no coincidence that the Forum will be held in Aversa/Naples and Capri, with visits to the sites and presentations of operational projects by the scientific community of Benecon, a University consortium that hosts 250 researchers and distinguished professors of five Italian Universities, UNESCO Chair on Landscape, Cultural Heritage and*

*Carmine Gambardella
President and Founder of the Forum*



Le Vie dei
Mercanti

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Mapping by memory_ An approach to prevent and programming opportunities for high-risk disaster areas

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Abstract

Often, especially in Italy, the areas of high risk disasters, seismic or hydrogeological situations, coincide with the central territories forsaken which are rich of history, culture and architecture, located in areas of outstanding natural beauty.

In these situations, one of the most difficult elements is the lack of operational tools such as surveys, thematic maps of fragility (cultural, economic, environmental, social) and analysis of the tangible and intangible heritage. Frequently the existing documentation, especially in small villages, appears fragmented and lacking in coherence both scientific and operational. This making it difficult to plan a strategy for the prevention needed to safeguard human lives and the historical architectural, cultural heritage, and reconstruction in the case of post disaster.

For example, the continuous seismic emergencies in central Italy recently have highlighted the weakness of basic information on the correct approach to reconstruction.

It follows the need to identify shareable models of mapping of the fragility that at the same time containing the information of the assets at risk.

The proposal is to investigate the possible methodological paths for the construction of multi-disciplinary and multi-scale thematic maps as an essential process of planning, risk prevention and enhancement of fragile areas such as those at risk of various disasters.

Keywords: Memory, mapping, fragility, project, models

1. Maps as time

“SCORRE RAPIDO ED IMPREVISTO il tempo concesso agli uomini. Fragile è la loro memoria. Per questo essi tendono a identificare gli eventi con le cose. Per questo aspirano a costruire paesaggi che abbiano stabilità.

Solo immaginando corrispondenza con le cose, la memoria può vincere la propria mutevolezza e definire un quadro, solo così trova modo di perpetuarsi e acquista respiro collettivo.

Singolare è il destino dell'architettura: perché essa nasce per corrispondere a bisogni concreti, ma ponendosi come fattore di riconoscimento e di identità, da subito li oltrepassa e li trascende. Questo spiega la particolarità del suo rapporto con il tempo. La città e i paesaggi si sono lentamente formati nel tempo e se ne sono nutriti; ma essi rappresentano anche un modo di fermare il tempo, di trattenerlo, di rinchiuderlo nel contorno di una forma. Nel corpo e nella forma rivelano le loro interne profondità, come se vi fosse in essi una misteriosa risonanza delle epoche e delle generazioni. L'architettura partecipa di questa risonanza.”

¹ Daniele Vitale, Introduzione. *Rafael Moneo, La solitudine degli edifici e altri scritti. Questioni intorno all'architettura*, page 9

¹ VITALE Daniele, *INTRODUZIONE. Rafael Moneo, La solitudine degli edifici e altri scritti. Questioni intorno all'architettura*, (eds. Casiraghi Andrea, Vitali Daniele), Torino, Allemandi, 1999, p. 9.

There is a sudden moment in time where the Architecture no longer aligns with that of Man. A moment in time in which permanence of the past centuries no longer exist, a time of adaptation. Architecture is no long in the hands of man, all ties severed: this is a natural disaster. These, often appear unforeseeable, even though predicted, cutting off the bond between man and architecture.

In the uncertainty of the occurrence of natural disasters, in the moment in which they happen they defy any logical relationship between the structure and surrounding shape.

The space in which they occupy suddenly becomes unstable, losing its true reference, space and logic. Therefore, rendering the passage of a semantic landscape impossible to read, using previous maps, photos, because of the new space generated.

The landscape previously known by man with its materials and architectural space, become something else: ruins, collapse of structures, destruction, despair, and bewilderment felt by all.

The dimension of a catastrophic sequence are far out reaching in intensity and devastation, involving hundreds and thousands of people on a broad scale.

At the time of the catastrophe, a sudden vacuum settles over the area, with all the confusion the emergency services, are at a standstill.

The safety of the inhabitants is paramount, with the necessity of providing safety, medical attention, temporary shelter in a stable geographical area taking in physiological and social cultural differences.

The communities struck by the events are divided often physically, in permanently temporary transfers. And again, the time that has governed this “nutrimento”² between architectural space and man, it returns to a primordial stadium in which the research of a “adaptive food” that could feed and recover that relation, swings between an immediate need of a shelter and a wish of ordinaries’ and return to the customs. In this reflection, the time and the catastrophes with their innumerable variations that they induce in the space, require determining again the tools of reading and description of the places and the space.

The sequence of the events, even in quick succession, as happened in the last earthquake in the centre of Italy in 2016, it has put a further bound degree of indeterminateness, respect to the speed of sequence of the events. The induced changes have not even had the time to settle. Inside this indeterminateness this contribution is placed, that has a primary goal that of including some of the necessary formalities to rebuild spaces, places, architectures, community through the architectural project.



Fig. 1: Pescara del Tronto (AP), October_9_2016

² VITALE Daniele, op. cit., p. 9,

2. Maps as relations

«Mi vuoi convincere, Beckett e Robbe-Grillet alla mano, che la verità non ha senso? Io ti seguo, contentissimo, fino alle ultime conseguenze. Ma la mia contentezza è perché già penso che, arrivato all'estremo di questa abrasione della soggettività, l'indomani mattina potrò mettermi - in questo universo completamente oggettivo e asemantico - a re-inventare una prospettiva di significati, con la stessa giuliva aderenza alle cose dell'uomo preistorico che, di fronte al caos di ombre e sensazioni che gli baluginava davanti, a poco a poco riusciva a distinguere e definire: questo è un mammoth, questa è mia moglie, questo è un fico d'india, e dava così inizio al processo irreversibile della storia.»

³ Italo Calvino, *Corrispondenza con Angelo Guglielmi a proposito della Sfida al Labirinto*, 1963

In each map there contains a message, a meaning, a system of relations, material or immaterial. In this sense, we need to find the significance of the history in relationship to that of the foundation of the place or subject.

Regarding the relationship that each map describes, you can design the chosen subject by the choice of critic contained above all in digital framework, multimedia, in which the overexposure generates a system of discord in the content and does not produce some productive instruments for the architectural project.

The necessity is to individualize different formations structural maps taking into account numerous criteria of interpretation, dynamically catalogued above all that of less important heritage.

One of the aspects often ignored in the process of fragile reading of the context is that of the relationship and the reciprocity that they established by the secular balance that has governed them.

The experience that has been gained for example inside the plans of rebuilding the smallest villages of the L'Aquila Cratere after the 2009 earthquake, it was clearly discovered the absence of adequate maps, measurement, systematic and scientific restitutions of the consistency even of the smallest heritage both private and public buildings and open spaces.

Therefore, creating a deficiency due to either the lack of contingency which are typical of that of abandoned areas, and both in the lack of database systems and of systemic documentation.



Fig. 2: Pescara del Tronto (AP), May_2016

³ CALVINO Italo. *Modo scritto e mondo non scritto*, (ed. Barenghi Mario), Torino, Einaudi Editore, 2002, p. 42.

In a state of post-emergency, it is necessary, for a precise and scientific procedure regarding a rebuild or restoration operation, we require an exact knowledge of the consistency of the damaged patrimony, in order to be able to carry out a strategy to enable a suitable rebuild regardless of useless promises, in any case, it will be an urban design project act founded on social, spatial, architecture.

It is obvious that such a lacuna not only diffuses to the material property but also immaterial, often to the disorientation of that of the urban morphology modified by a disaster.

This dyscrasia is a matter of research and planning, in which all the instruments of architecture should converge to define order and protocol.

The real change necessary is to characterize a system of dynamic maps, updated, integrated with detail and composition, descriptions, issues, prioritizing the sequence of the event, and then to address them critically by comparison.

In this context, it is obvious that the representation is an innovative instrument, which must characterize descriptive strategies of absent elements.

It is a plan, the base of the project and the design.

The representation of the fragile, smaller, immaterial elements is a theoretical structure and the substance of an innovative dimension that must work on the identity of the places, the memory and the expectations⁴.

The challenge is that to pursue models of representation of the maps which go beyond the mere data, but succeeds to contain with it a multi-disciplinary that crosses the fields of architecture.

This requires an ability of openings towards other disciplinary fields, a pre-figurative ability to the maps that transform them into a project.

The strategic ability is to work in balance of scale which is extremely variable, for descriptive contents and specifying of the plan. It is necessary to find the way to cross variable sometimes in contrast, resolving conflicts, characterizing interactive or oppositional categories, in which both the representation techniques allow the project to move freely permeating the scales, the immaterial contents, the vocations of the places, selecting with scientific and emotive ability materials and topics.

In this ability to synthesis it is possible to express opportunity and belonging.



Fig. 3: Pescara del Tronto (AP), August_2016

⁴ More information about the mapping and representativeness: Andriani Carmen, Corradi Emilia, Massacesi Raffaella, *Mappe e nuovi cicli di vita. Rappresentanza (politica) e rappresentazione (autoriale) dei territori dell'abbandono*. In: *RE-CYCLE OP_POSITIONS II-* (eds. Marini Sara, Roselli Sissi Cesira, Aracne Roma, pp. 139-146, ISBN 978-88-548-7239-4.

3 Maps as memory

«...sentivano il bisogno di storia nella misura in cui, proiettati verso un avvenire inimmaginabile, sotto la pressione degli agenti esterni che non lo immaginavano più di loro, avvertivano la necessità di identificarsi quanto meno con il loro passato, a costo, come spesso accade di reinventarlo da cima a fondo. Ma l'oscurità del presente e l'incertezza dell'avvenire erano la ragione di quella reinvenzione.»

⁵ Marc Augè, *Rovine e Macerie*, 2003.

What remains after the earthquake and how much there was before the earthquake? In the saying of “where it was and how it was”, and its strong emotional component, often there is no exact knowledge that had existed before the earthquake or other types of disasters

In the experiences of the past earthquakes, as other disasters have often been an occasion of total afterthought of whole cities, for example the disaster of Lisbon after the earthquake of 1755, or London after the Great Fire of 1666⁶, they return to different urban identities with spatial perception and architectural images⁷.

In these circumstances, with the availability of the maps as instruments of afterthought for the city and the architecture it would take into account a primary aspect or that of the destruction like consequence of errors, of wrong choices, for obsolete or inadequate structural techniques, an oversight in the nature of man.

The temporal indeterminateness of the cause of disastrous events should put in place preventive actions being able to describe future configurations and manner of use of the urban space and architectures in conditions of emergency.

These are often poorly planned beforehand or not foreseen or only encoded as guide lines and protocols, not always suited to the scale and places of the territory and the landscape.



Fig. 4: Pescara del Tronto (AP), October_9_2016

⁵ AUGÈ Marc. *Rovine e Macerie*. Bollati e Boringhieri, Torino, 2003, p. 15, ISBN 9788833915166.

⁶ It is thought for example about the remarkable contribution given by Václav (Wenceslaus) Hollar in the description pre-and post-fire of London of 1666 in which the gap determined by the destruction is returned in his scientific and cultural dimension.

⁷ A very interesting experience in this regard is described by TORRENT, Horacio. *El Suelo en la Disputa por la reconstrucción urbana* Chillán, 1939, ARQ, núm. 93, 2016, pp. 84-97, ISSN 0716-0852.

4 Maps as mechanism

«"Radunare" significa che le cose sono raccolte insieme, ossia spostate da un luogo all'altro. Questo spostamento in genere viene compiuto mediante la simbolizzazione, ma può anche consistere in un trasferimento concreto di edifici e cose.»

⁸ Christian Norberg-Sculz, *Genius Loci, Paesaggio Ambiente Architettura*, 1979.

In this system, involves various materials, like physical and intangible patrimony that is needed by a recognition through pre-emptive mappings. This in turn should assume the list of instruments of control or forecast of the transformations through the project.

In a basic argument, it is useful to rethink some categories of the places expressed by Cristian Norberg-Schulz to the point of the «structure of the place» that «would be described in terms of «landscape»⁹ and of «settlement »¹⁰ and analysed by the categories of «space»¹¹ and «character»¹². If what is true that the «space forms, in fact receives characterizing always new interpretations during the history»¹³,like a sudden, strong, historical earthquake with that kind of interpretation introduces new events.

When the spatial points of reference disappear, the location of the instruments of the plan is set like necessary reflection, beginning from the mapping of that which has got lost, giving back temporal, spatial and environmental continuity.

In the first-place it is necessary to understand the causes of the economics, social change in the processes of spatial evolution and culture with respect to that of devolution, characterized from abandonment, disposal, through neglect and degradation, in order to characterize a possible able future to fix the new bench marks of the plan.

Often, in the recent experiences above all in the reconstruction after L'Aquila earthquake, the project and the plans of reconstruction have reconfirmed city, morphologic structures architectonic precedence.

In rare cases, they have reconsidered the space, by transferring it in sure places, predetermined morphology, architecture, relations and new instructions for live.



Fig. 5: Pescara del Tronto (AP), October_9_2016

⁸ NORBERG-SCULZ, Christian. *Genius Loci, Paesaggio Ambiente Architettura*. Torino, Electa, 1979, p. 169, ISBN 8843519611.

⁹ NORBERG-SCULZ, Christian, cit. p. 11,

¹⁰ NORBERG-SCULZ, Christian, cit. p. 11,

¹¹ NORBERG-SCULZ, Christian, cit. p. 11,

¹² NORBERG-SCULZ, Christian, cit. p. 11,

¹³ NORBERG-SCULZ, Christian, cit. p. 11.

Meanwhile the places, the space, the architectures are conjugated in numerous spatial and architectonic combinations, before that of spaces created by the ruins and collapses, also provisional space of the work for setting in transitory certainty, areas with its scaffolding, including places to live. A metamorphosis that contains a not always linear and clearly identifiable temporal sequence, returning spaces, places and architectures is not always homogeneous combinations of perfection. That of the maps of the temporal configurations of disastrous events can assume a role of story and projected action. In context in which the duration of the temporary configurations of architectures and places become attached to the provisional works that often-become long permanence and of doubtful future.

They are an investigation field a story still to be discovered, modality, restitution techniques, in which some reflect on the form of the architecture of the “shoring” it has begun to define a new within of the plan and the modalities of representation of these configurations¹⁴.

That adds collapses and ruins to itself to this first field to study, like ecologic questions but above all like new timelines that they offer to the project through the recovery. Also, in this sense a criterion of cataloguing, restitution and mapping, it might become a strategy of project and of exploitation of a “dismantled memory” that has not the privilege, because poor materials and from structural techniques, from a possible anastylosis, however they testify continuity, memory and belongings¹⁵.



Fig. 6: Pescara del Tronto (AP), October_9_2016

¹⁴ More information about cfr. NASTASI Michele. *L'Aquila*, 2010. *Framework Town*, in Lotus n° 144, Milano, Editoriale Lotus, 2010, ISSN 1124-9064.

¹⁵ More information about cfr. ROMÁN, Juan. *REHACER LO DES(h)ECHO*, *Revalorización de materiales en Arquitectura, Arte y Diseño*, Santiago del Chile, STOQ ed., 2016, ISBN 9789569741.

What are the possible evaluations that the instruments of the project can carry out in the contexts of the disaster and in the smallest architecture it is a necessary passage of research of the project as repossession device of the discipline as an ethical choice.

The project and its representation need necessity to reevaluate all the configurations that the sudden, violent modification has introduced to the architecture, to the space, to man.

In this field choice, the property of the "fragile" architectures, which, in any case, discounts a condition of descriptive backwardness of the "concrete space", assumes a fundamental list.

The scale of the devastations, the empty ones of collapses, the absence of future in lack of a sure past and defined for loss progressive of population, customs, memory, habits along with the loss of the community sense it is an element primary in order to recognize the value of a place.

What are the mapping criteria? Which information to identify, and which basic materials become instrumental for the description of data qualitative strongly heterogeneous of a heritage full of character and standards?

These questions are at present at the center of a series of researches by the Department DASTU_Polytechnic of Milan with the FARB "Learning from disasters: methods, tools and techniques to build resilient urban spaces"¹⁶, and the HUB "Territori Fragili"¹⁷, whose fields of investigation confronting with multidiscipline methods, instruments and techniques to be adopted in the architectonic planning.

The territorial-urban planning in order to improve the resilience of human settlements subject to the risk or the manifestation of natural catastrophes".

Within these researches the job of reflection focuses on the study which has already begun.

The subjects are the recent seismic events that have hit Central Italy, through which is characterized by strategies of the plan for a correct prevention procedure of the damages from catastrophic events in the fragile territories.

*The photographic report is carried out in the within of WS "DISASTER CITY: Potentials for Risk Prevention, Emergency Resilience and Reconstruction Management in Cities facing Catastrophes"

TU Berlin – PoliMi with the collaboration of Uni CAM.

Arquata del Tronto/Ascoli Piceno/Milano 9/15 ottobre 2016

Bibliographical References

- [1] ANDRIANI Carmen, CORRADI Emilia, MASSACESI Raffaella. *Mappe e nuovi cicli di vita. Rappresentanza (politica) e rappresentazione (autorale) dei territori dell'abbandono*. In: RE-CYCLE OP_POSITIONS II- (eds. Marini Sara, Roselli Sissi Cesira), Aracne Roma, pp. 139-146, ISBN 978-88-548-7239-4
- [2] AUGÈ, Marc. *Rovine e Macerie*, Torino: Bollati e Boringhieri, 2003, page 15, ISBN 9788833915166
- [3] CALVINO, Italo. *Mondo scritto e mondo non scritto*, (ed. Barenghi Mario), Torino, Einaudi Editore, 2002, p. 42, ISBN 88-04-50533-8
- [4] NASTASI, Michele. L'Aquila, 2010. Framework Town, in *Lotus* n° 144, Milano, Editoriale Lotus, 2010, ISSN 1124-9064
- [5] NORBERG-SCULZ, Christian. *Genius Loci, Paesaggio Ambiente Architettura*, Torino, Electa, 1979 pp. 11-12-169, ISBN 8843519611
- [6] ROMÁN, Juan. *REHACER LO DES(h)ECHO, Revalorización de materiales en Arquitectura, Arte y Diseño*, Santiago del Chile, STOQ ed., 2016, ISBN 9789569741
- [7] TORRENT, Horacio. *El Suelo en la Disputa por la reconstrucción urbana Chillán, 1939*, ARQ, n° 93, August, 2016, pp. 84-97, ISSN: 0716-0852
- [8] VITALE, Daniele. *INTRODUZIONE. Rafael Moneo. La solitudine degli edifici e altri scritti. Questioni intorno all'architettura*, (eds. Casiraghi Andrea, Vitale Daniele), Torino, Allemandi, 1999, p. 9, ISBN 884220923

¹⁶ DASTU Department _PoliMI. PROGRAMMA FARB 2016, "Learning from disasters: methods, tools and techniques to build resilient urban spaces". RM_Andrea Gritti. RG_Scira Menoni, Emilia Corradi, Angelo Giuseppe Landi. Partners: University of Catania, TU Berlin, PUC Santiago de Chile, PUCE Quito.

¹⁷ DASTU Department _PoliMI. HUB Territori Fragili. RM_Scira Menoni, Emilia Corradi.