

Reading the urban historical sedimentation throughout the eyes of a novelist. A digital tool to raise tourists awareness of cultural heritage.

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ABSTRACT: The urban structure that a tourist explores during a tour is the result of a historical evolution where spaces have been shaped by events, planned activities and every day life. The identity of the place is a mixed brand composed by material objects, symbolic values and social experience layered on the physical environment. The risk for mass-tourism is to remain on the surface of this historical sedimentation unable to discover, recognize and appreciate the inner soul – the *genius loci* – of the place in itself. On the other hand, visual artists, writers, novelist, musicians and other cultural protagonists can give a powerful and deep insight of a city life and personality. The paper proposes an experimental project that tries to read the secret life of Milan through the eyes of one of its most famous novelist and intellectual leader of the XIX century, the well-known author Alessandro Manzoni. The time machine, a features of the mobile app The Betrothed 2.0, presents the evolution of the city following the itineraries made by one of the main character of the novel. That allows to show different periods (XVII, XIX centuries and the contemporaneity) and places geo-referenced on historical maps using a multimodal and augmented reality story telling approach. The app, tested with real people among tourists, city-users and inhabitants, is the driver to discover the urban space and its intimate soul.

REFERENCES

- Augé, M. 1997. *L'impossible voyage: le tourisme et ses images*. Parigi: Éditions Payot & Rivages.
- Augé, M. 1992. *Non-Lieux. Introduction à une anthropologie de la surmodernité*. Parigi: Editions du Seuil.
- Bollini, L. 2017a. The urban landscape and its social representation. A cognitive research approach to rethinking historical cultural identities. In G. Amoruso (Ed.), *Putting Tradition into Practice: Heritage, Place and Design. Lecture Notes in Civil Engineering*: vol. 3, 834-842. Springer Verlag: Cham.
- Bollini, L. 2017b. The social representation of a territory. Designing the user experience of spatial interaction from a user-centered theoretical perspective. *Pad*, 13: 170-191.
- Bollini, L. & Begotti, D. 2017. *The time machine. Cultural heritage and the geo-referenced storytelling of urban historical metamorphose*. In Murgante, B et Al., M. (Eds.). *ICCSA 2017*, Part III, LNCS 10406: 239-251. Springer-Verlag: Berlin Heidelberg.
- Bollini, L. & Borsotti, M. 2016. Strategies of Commutation in Exhibition Design. *The International Journal of Architectonic, Spatial, and Environmental Design* 10(1): 13-21.
- Bollini, L.; Busdon, G. & Mazzola, A. 2015. GeoLapse. A digital space-based and memory-related time-capsule app. In O. Gervasi et al. (Eds.), *Computational science computational science and its applications – ICCSA 2015*, Part II, LNCS 9156.: 675–685. Springer-Verlag: Berlin Heidelberg.
- Bollini, L.; De Palma, R.; Nota, R. & Pietra, R. 2014. User experience & Usability for mobile geo-referenced apps. A case study applied to cultural heritage field. In B. Murgante et al. (Eds.), *Computational science computational science and its applications – ICCSA 2014*: 652–662 Part II, LNCS 8580. Springer-Verlag: Berlin Heidelberg.

- Bollini, L.; De Palma, R. & Nota, R. 2013. Walking into the past: Design Mobile App for the Geo-referred and the Multimodal User Experience in the Context of Cultural Heritage. In B. Murgante, O. Gervasi, S. Misra, N. Nedjah, A. M. A. C. Rocha, D. Taniar & B. O. Apduhan (Eds.), *Computational science computational science and its applications – ICCSA 2013*: Vol. 3, 481-492). Springer-Verlag: Berlin Heidelberg.
- Bollini, L. 2013. *Lo spazio digitale del sapere: dalla forma archivio alle knowledge-base culturali. Aggregazioni, narrazioni e migrazioni*. In R. Trocchianesi & E. Lupo (Eds.) *Progetto e memoria del temporaneo* Vol. 3: 53-67). Electa: Milano.
- Bollini, L. 2011. Ambienti sensibili: Tecnologie interattive spaziali della conservazione dei beni culturali. *Artlab* 40: 44-47.
- Bollini, L. 2011. Territorio e rappresentazione. Paesaggi urbani. Paesaggi sociali. Paesaggi digitali. Rimini e l'altro mediterraneo. In M. Giovannini & F. Prampolini (Eds.), *Spazi e culture del Mediterraneo* Vol. 3: 28-42. Edizioni Centro Stampa di Ateneo: Reggio Calabria.
- Bollini, L., & Borsotti, M. 2009. Reshaping exhibition & museum design through digital technologies: A multimodal approach. *The International Journal of Virtual Reality*, 8(3): 25-31.
- Bollini, L. 2009. From paper to bytes: Digital knowledge sharing. A multi-level approach to document digitalization. A case history in Italian historical studies. In Filipe, J; Cordeiro, J. (Eds.), *Proceedings of the fifth international conference on Web Information Systems and Technologies*: 567-571. Lisboa.
- Bollini, L., & Palma, G. 2004. Cognitive maps: New paradigms in information architecture and interface design for the web. The Opsi identifier descriptive model for web information architecture based on cognitive maps: Designing-x a case study. In A. J. Canas, J. D. Novak & F. M. Gonzalez (Eds.), *Concept maps: Theory, methodology, technology*. (2): 95-98. Nova Text: Navarra.
- Bollini, L. 2004. *Registica multimediale: Il design dei new media*. CLUP: Milano.
- Bollini, L. 2001. Multimodalità vs. Multimedialità. *Il Verri* 16: 144-148.
- Bonomi, A. 1999. *Il distretto del piacere*. Bollati Boringhieri: Torino
- Buzzati, D. 1962.
<http://tlon.it/incontro-con-dino-buzzati/>
- Collina, F. 2015. La solitudine dell'arte: su Instagram la visita nelle sale deserte dei Musei Vaticani. *La Repubblica*
http://www.repubblica.it/vaticano/2015/12/12/foto/la_solitudine_dell_arte_il_viaggio_degli_instagrammers_italiani_dentro_le_sale_deserte_dei_musei_vaticani-129336181/1/#2
- Erikson, R.A. 1979. The filtering down process: industrial location in nonmetropolitan area. *The professional Geographer*, 28(3): 254-260.
<https://onlinelibrary.wiley.com/doi/pdf/10.1111/j.0033-0124.1976.00254.x>
- Forster, M. G. 1908. *A Room with a View*. Edward Arnold: London.
- Gieseking, J.J. & Mangold, W. (Eds.) 2014. The people, place and space reader. Routledge: New York.
- Glass, R. 1964. *London: aspects of change*. MacGibbon & Kee, 1964: London
- Goethe, J.W. 2009. *Italienische Reise* (4th Ed.). Fischer Taschenbuch: Frankfurt (Original Edition: vol.1: 1813, vol. 2: 1817).
- Griffin, K., & Raj, R. 2013. Not Losing the 'Pilgrimage' in the Pilgrimage Tourism Experience. *Journal of Tourism Consumption and Practice* 5(2).
- Instagram's 2017 Year in Review
<https://instagram-press.com/blog/2017/11/29/instagrams-2017-year-in-review/>
- Klein, N. 1999. *No logo*. Toronto: Knopf Canada
- Lynch, K. 1960. *The image of the city*. MIT Press: Boston.
- Smith, N. 1996. *The new urban frontier. Gentrification and the revanchist city*. Routledge: London.
- Smith, N. 1979. Toward a theory of gentrification: a back to the city movement by capital, not by people. *Journal of the American Planning Association* 45.
- Turkle, S. 2011. *Alone Together: Why We Expect More from Technology and Less from Each Other*. New York: Basic Books.