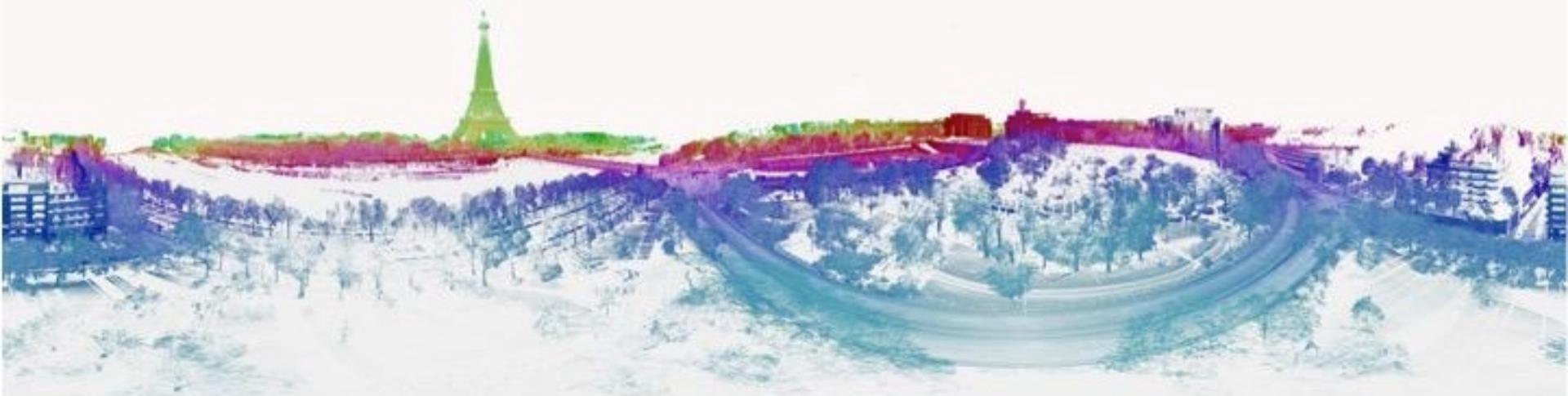


Last news on CBIR
dedicated to heritage contents
at LASTIG

Valérie Gouet-Brunet

Time Machine 2020





Alegoria: Advanced linking and exploitation of digitized geographic iconographic heritage

<http://www.alegoria-project.fr>



➤ Deep image description for retrieval in aerial imagery

D. Gominski, M. Poreba, V. Gouet-Brunet, L. Chen,
Challenging deep image descriptors for retrieval in heterogeneous iconographic collections, SUMAC Workshop
@ ACM Multimedia 2019



Alegoria benchmark: oblique imagery images (Arc de Triomphe, Palace of Versailles, Gerland Stadium & Port of Lyon, Dock of Saint-Tropez)
Royalty-free images from gallica.bnf.fr, IGN - Photothèque Nationale

➤ Cross-year multimodal image retrieval using siamese networks

M. Khokhlova, V. Gouet-Brunet, N. Abadie, L. Chen, *Cross-year multi-modal image retrieval using siamese networks*, ICIP 2020



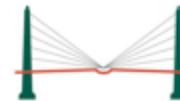
Image and semantic data evolution (period 2004 - 2019) © IGN



Alegoria: Advanced linking and exploitation of digitized geographic iconographic heritage

<http://www.alegoria-project.fr>

<https://archivalcity.hypotheses.org>

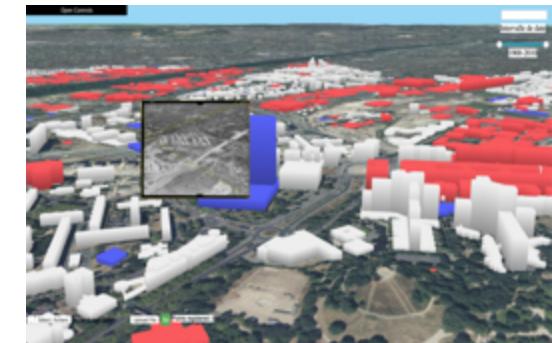
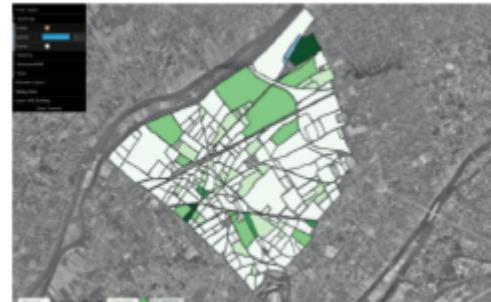
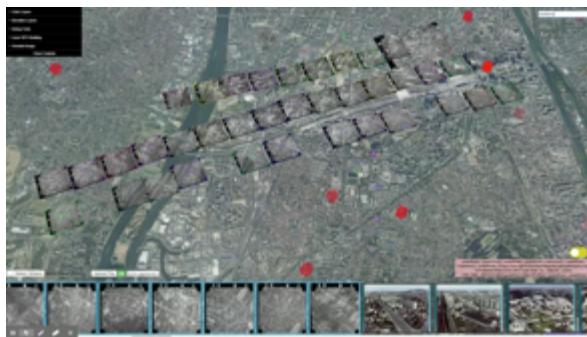


ARCHIVAL CITY
Bridging Urban Past and Future

- A multimodal and spatio-temporal web tool - Application to the understanding of the Parisian metropolis



E. Blettery, P. Lecat, A. Devaux, V. Gouet-Brunet, F. Saly-Giocanti, M. Brédif, L. Delavoipiere, S. Conord, F. Moret, *A Spatio-temporal Web-application for the Understanding of the Formation of the Parisian Metropolis*, 3D GeolInfo 2020 conference, ISPRS Annals of Photogrammetry, Remote Sensing and Spatial Information Sciences, VI-4/W1-2020, Sept. 2020



Multimodal co-visualization
(3D buildings, statistics,
oblique and ortho-images)

3D navigation, with
visualization of statistics at
"îlot" scale in Nanterre area

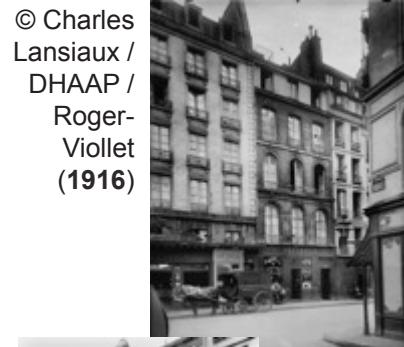


Structuring the iconographic collections of the Ville de Paris

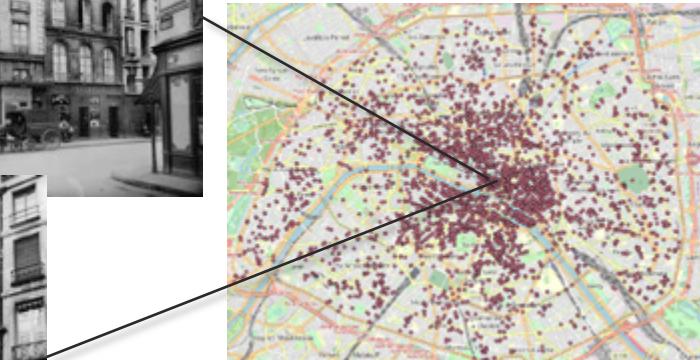
Automatic indexing of street-level iconographic contents at large scale by exploiting a Paris-wide 2D/3D georeferenced dataset

- 2D and 3D spatialization of the collections
- Interlinking of contents across time and collections
- Interactive and immersive 3D visualization

© Charles Lansiaux / DHAAP / Roger-Viollet (1916)



© Commission du Vieux Paris / DHAAP / Roger-Viollet (1967)



The georeferenced dataset: photos and LiDAR data acquired by Stereopolis, the IGN mobile scanning vehicle



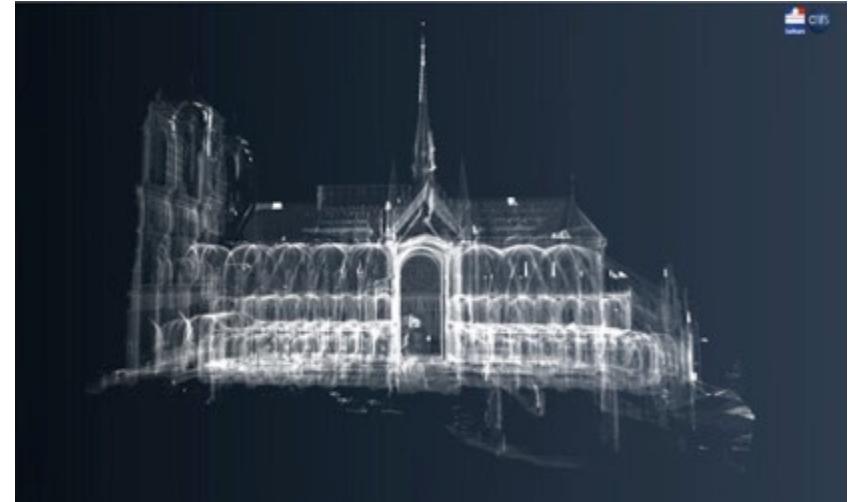
ClaS-Ter: indexing and classification of photographic collections for restoration sites



"Digital Data" working group of **Notre-Dame de Paris** restoration

<https://www.notre-dame.science/>

- Automatic **spatiotemporal** and **multimodal indexing, classification and structuring** of **large scale** photographic contents for the monitoring of restoration sites
- Use case : **Notre-Dame de Paris**



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