2nd EuroSDR Workshop on “Geoprocessing and Archiving of Historical Aerial Images”

Rome, December 5-6, 2022
via di San Michele 18 - Trastevere
ICCD Main building

5
Monday

9:00-10:30
Opening Remarks

Updates from NMCAs and National Archives - 1

A mission over time: preserving and disseminating historical aerial images guarded by the National Geographic Institute (IGN) of Spain

L. Moral | IGN-CNIG, Spain

Developments at the UK National Collection of Aerial Photography (NCAP) on the physical preservation and digital imaging of historic aerial photography

A. Williams | NCAP, UK

Historical aerial images as material objects: aspects of their deterioration and conservation strategy in AFN

D.S. Palazzi and M.G. DiPpolito | AFN-ICCD, Italy

10:30-11:00
Coffee break / Demo time

11:00-13:00
Best practices in scanning and processing

Phase One Scan Station vs. high precision photogrammetric scanners - practical experience in performing aerial triangulation in everyday production environment

P. Meixner | PRIMIS, Czech Republic

Rapid photogrammetric scanning and processing of aerial film archives

R. Thomas | Geodyn, Germany

AFS150 - the new, fast photogrammetric scanner for analog airborne imagery

W. Aleithe | 3DAleithe, Germany

Digitizing, pre-processing and photogrammetric processing of the RMCA’s historical aerial photographs of central Africa

B. Smets | Royal Museum for Central Africa, Belgium

Digitisation of historic aerial images in Baden-Württemberg -- investigating geometric resolution and accuracy of current digitisation systems

J. Schulz, T. Herbst | LGL BW, Germany

13:00-14:30
Lunch break & Demo/Visit to AFN
**Tuesday**

**9:00-10:30**

**Updates from NMCAs and National Archives - 2**

- Bringing the Swiss Landscape Memory to Life
  - N. Jabrane and H. Heissig | Swisstopo, Switzerland

- Historical aerial images - What’s going on in Norway
  - H. Buller | Kartverket, Norway

- Actualizing history
  - M. Norin and G. Klutkov | Lantmateriet, Sweden

- 75 years of historical aerial images from Denmark and Greenland - The process from dusty shelves to website
  - M.B. Nielsen and A. Dindorp | SDFI, Denmark

**10:30-11:00**

**Coffee break / Demo time**

**11:00-13:00**

**Advances in image orientation and triangulation**

- Finding intra-epoch and inter-epoch feature correspondences between pairs of historical aerial images using neural networks
  - F. Maiwald | TU Dresden, Germany

**13:00-14:30**

**Demo/Visit to AFN**

---

**14:30-16:00**

**Applications of historical aerial images - 1**

- RMCA’s historical aerial photographs of central Africa: the collection, its management and its potential for environmental studies
  - F. Keryny | Royal Museum for Central Africa

- Review on the processing and application of historical aerial images in the geosciences
  - L. Piermattei | WSL, Switzerland

- Serial processing of historical aerial photographs: a story telling the geomorphic impact of cyclones on Reunion Island (Indian Ocean)
  - C. Rault and T. Dewez | BRGM, France

- Semi-Automatic Object Detection in Historical Aerial Images with a Human in the Loop
  - M. Burges | TU Vienna, Austria

**16:00-16:30**

**Coffee break / Demo time**

**16:30-17:30**

**Applications of historical aerial images - 2**

- Monoplotting and historical aerial images for 3D GIS
  - C. Bozzini | WSL, Switzerland

- Country wide digital vegetation height models from historical stereo imagery for Switzerland
  - M. Marty | WSL, Switzerland

- On the use of historical imagery for cadastral photogrammetry – case study from the Heilbronn district
  - M. Cramer | Univ Stuttgart, Germany

- Geometric and radiometric processing of historical aerial photogrammetric campaigns
  - A. Le-Bris | IGN, France

---

**17:30-19:00**

**Demonstrations**

- **Historical Structure from Motion (HSfM): Automated processing of historical aerial photographs for long-term geodetic change analysis**
  - K. Knuth | University of Washington, USA

- **Implicit / Deep Georeferencing of WWII Aerial Reconnaissance Image**
  - W. Karel | TU Wien, Austria

- **Feature matching for multi-epoch historical aerial images**
  - L. Zhang, E. Rupnik, M. Pierrat-Dessieilignly | IGN France

- **Data models, processing and sharing of historical aerial Images using ArcGIS**
  - M. P. Becker | ESRI

- **Closing remarks**
  - All Representatives