B

[like bernstein, paper captures sparks from far ago]

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Co-funded by the Community programme eContentPlus

DATABASE EXPERTISE

Watermarks become visible when holding papers such as a banknote against light. They are imprints left by the wires of a papermaking mould. Because a mould wears off in the process of work in around 2 to 5 years, the dating, authentication and sometimes localisation of documents from identified papers is possible on the basis of watermarks and other

(Below, the 38 watermark classes in use in pre-modern times, according to Piccard-Online)



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(esta bias? (Ezio Ornato) choices? historical randomness? cultural preferences? marketing repertory. Do these variations show 1470-1500, based on the Piccard watermark types in Italian paper, market distribution of three The squares show the relative



Italy Germany

os.2009 - Vienna, Austria 09-12.2007 - Rome, Italy VletI ,onsinds7 - Toos.80-70 o3-06.2007 - Vienna, Austria 12.2007-02.2008 - Stuttgart, Germany Paper studies exhibitions - intinerant, ask to participate! Tutorials - on-demand, program on website isu nioc

(Georg Dietz; Alois Haidinger; Gerard van Thienen; Gerhard Piccard)

- 6. Handdrawing: cheap; fast; subjective. 5. Rubbing: cheap; fast; objective; low resolution.
- 4. Radiography: best results; expensive; restricted use in libraries. 3. Backlight-Frontlight-Subtraction: fairly good in some cases; cheap; simple software.
 - 2. Backlight: ink screens the structure.
 - 1. Frontlight: practically no paper structure information.

more modern papers are not excluded. historical paper but applications to The focus of this project may be the paper identification capabilities. industry, are expected to benefit from research and the paper making market, forensic science, security this, other areas such as the art heritage conservators. In addition to targeted are historians and cultural scenarios. The main user communities accommodating multiple usage broadest range of users possible by access to paper expertise for the technical infrastructure to enable is to generate a conceptual and The ambition of the Bernstein project

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packs, tutorials and an exhibition. deploy paper expertise software includes the provision for ready to strong dissemination plan. This plan the lifetime of the project there is a and interest in paper studies beyond To ensure sustainability of growth contextualise data on papers. and bibliography, which enrich and paper studies, such as cartography resources from domains related to It will provide an interface to digital the measurement of paper features. specialised image processing tools for their content accessible for use to reproduction databases and make interlink all existing European paper and history of paper. This project will digital environment for the expertise is to create an integrated European The objective of the Bernstein project

Budapest, 1540

Utrecht, 1461

Utrecht, 1461

Esslingen, 1446

Esslingen, 1476

3, 1470

Rössel, 1559

Wert, 1563

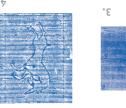
Wert, 1563

Wert, 1563

Wert, 1564

Wert, 1569

what we do...





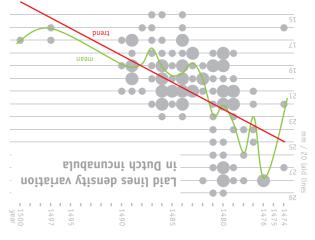




BERNSTEIN. THE MEMORY OF PAPERS

(from 600 WILC incunabula, Vlad Atanasiu) makers adapted to print technology. reveals how Renaissance paper an increase in laid lines density Finer paper needs finer tools:

HISTORICAL METRICS



cultural heritage. basis for historical research and exploration of provides a thread of captured events that are a usage of a sheet of paper in time and space its origins. Tracing the movement and the economical, social and cultural environment of leads to information on the technological, physical characteristics of the paper. This production can be estimated by examining a "memory bearer". Its date and location of Paper expertise is important because paper is

Paper matters!



