

-

Open Access for Museum Collections and Research

Dr Artemis Yagou

Research Associate, Deutsches Museum

www.yagou.gr

SFSCON, NOI Techpark, Bolzano, 8–9 November 2024

THE THE HE HE HE HE HE HE

EUE 111 EUE (111 111)

TE LES (133 1333 (133 (133) (133)

Digital transformation in the museum sector:

A tough matter

Opportunities and Challenges

Opportunities

• Improved accessibility of collections

Increased efficiency in administration/exhibitions/research

Broader knowledge transfer

Challenges

Data management

Keeping up with technology

• Integration into museum's overall strategy

Deutsches Museum Digital

51359 objects 41675 books 102951 archival records



40,000 new objects online



Over 40,000 Books in our online portal

...from the history of science and technology - from our library



Roman man with axe (diorama figure)



Astrolabe (made in 1598)



Automaton (made around 1560) in the form of a monk

bavarikon

Collections

Exhibitions

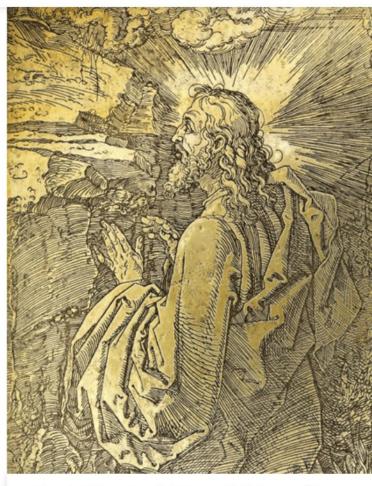
Highlights 3D Models

bavarikon Bavaria's digital treasury

Discover art, culture and a treasure trove of knowledge from museums, archives and libraries of Bavaria

Search

Q



Albrecht Dürer: Druckplatte zu Christus am Ölberg

bavarikon

Collections

ns Exhibitions

Highlights

3D Models Further

Further Content 🗸

Q DE EN

Measurement of time and space: historical measuring instruments from the Deutsches Museum

The collection contains 3D digitised objects for the measurement of time and space from the Deutsches Museum. The original instruments in this collection are examples of outstanding measuring instruments from the Deutsches Museum's four specialist areas of "time measurement", "astronomy", "navigation" and "geodesy".

These are various historical measuring instruments that were manufactured mainly in Europe from the 16th to the 19th century. Using them, people could orientate themselves day and night, on land and water, in time and space. The fixed wall or table sundial manufactured for one latitude and the portable sundial with compass were used to measure time during the day, the Nocturnal (also: star clock) measured time at night. Since the late Middle Ages, these sundials have displayed hours of equal length (equinoctial hours) – just like mechanical clocks. Towards the end of the 16th or beginning of the 17th century, the equatorial or equinoctial sundial was developed, whose dial or ring was set parallel to the equator.

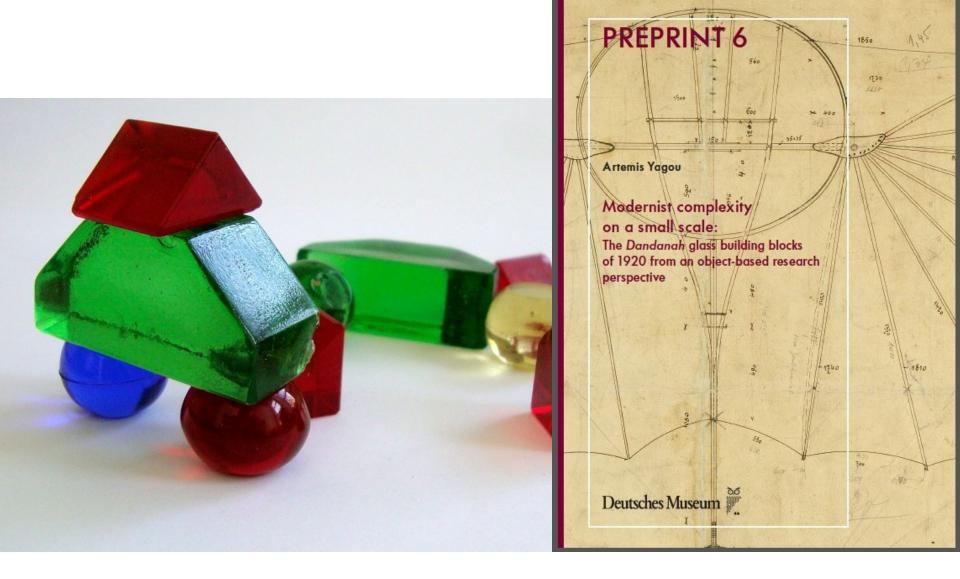
With a weight-driven mechanical wheel clock with spindle escapement with balance, time could be measured independently of the weather (sun, moon, stars), but its accuracy was rather poor until the Dutch natural philosopher and mathematician Christiaan Huygens (1629-1695) developed the free-swinging pendulum (for large clocks) or the spiral balance spring (for small clocks) in the 17th century. Sundials were still used to adjust wheel clocks until the 19th century.

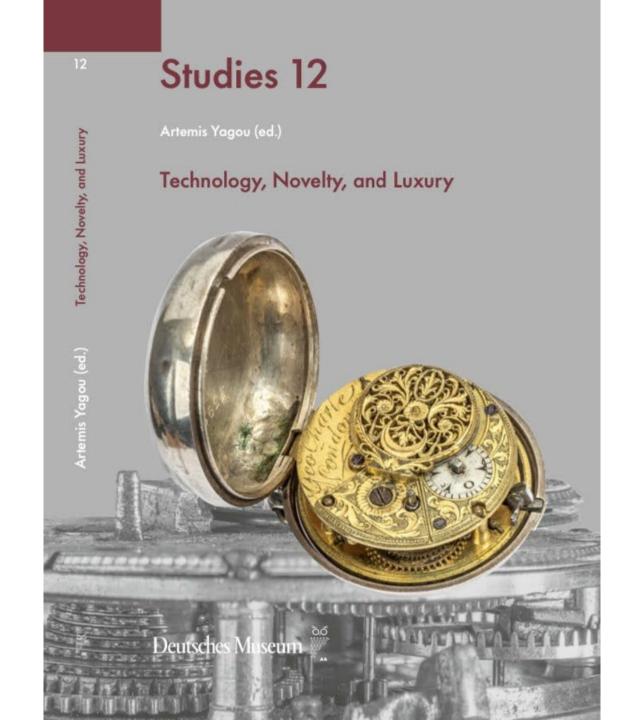


Deutsches Museum: Open Science Policy

• Strongly encouraging Open Content

 Implementing transparency throughout the museum: from Methods, Tools, and Infrastructures to Research Results and Publications





Key issues for the future

 Access and management of resources (human, material)

• Need for a long-term, consistent digital strategy

• Stepping out of one's comfort zone

Links to explore: deutsches-museum.de/ digital.deutsches-museum.de/en/

Any comments/questions? Thank you very much for your attention!



-

Open Access for Museum Collections and Research

Dr Artemis Yagou

Research Associate, Deutsches Museum

www.yagou.gr

SFSCON, NOI Techpark, Bolzano, 8–9 November 2024

THE THE HE HE HE HE HE HE

EUE 111 EUE (111 111)

TE LES (133 1333 (133 (133) (133)