NETWORKED INTERACTIVE DIGITIZED INFORMATION WILL CHANGE THE WORLD

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Main thesis today:

Digitization is often introduced with not enough imagination and concern for user-friendliness.

Today I will try to explain this using as examples mainly collections of digitized documents.
Advantage of a collection of digital objects:

--- Usage is independent of time and location of user
--- Location of information of interest using full text search, or possibly more (?)
--- Can a document be used by more than one person at a time (?)
--- How about E-Books?
--- Material often not in library but on a server of the publisher!
More imagination seems to be desirable:

--- Help to find desired book/ document
--- Feedback
--- Can one ask questions?
--- How about discussions?
--- Can one add text or multimedia material oder links (when and who checks this?)
--- Allow groups of users
--- Link relevant parts with others (how much can be done automatically?)
--- Allow different types of searches
--- Search in more than one document with one command
--- CoT on each page
--- Jump to any page
--- Pages from different servers on the screen at the same time (IIIF Standard)
--- Allow manipulation of pictures
--- Allow high resolution pictures
--- Links to parts of page („Transclusions“)
--- Allow to choose presentation (one page, two pages, thumb nails,...)
--- Allow different kind of Quiz
--- Allow to choose complexity of menus
Help to find documents of interest
Feedback possible on every page

Klick on Feedback yields →
In NID one can ask questions and use discussions everywhere.

In NID Documents on each page there is at the top right an entry or, if there is already a discussion on that page:

A click shows all discussions in the document or allows to start a new one:

- View Discussion
  - Nice book!
  - Page identity!
  - AC versus DC.

+ Add New
  - Nice book!
  - Page identity!
  - AC versus DC.
Short discussion on AC versus DC

Anonymous

AC versus DC.

AC (Alternating current, Wechselstrom) has won over DC (Direct Current, Gelichstrom) I have read, and Tesla after all won with AC the competition to build a powerplant at Niagara Falls. But I have also seen the statement that DC is making a comeback. Is this correct?

15-Oct-2020 11:42 AM

H.M

Yes, this is true to some extent for two reasons: The first one is that high AC voltage lines loose more energy per 100 miles than DC high voltage lines. Since now good techniques are available to convert AC into DC and change the voltage of DC (still more difficult than for

Anonymous

15-Oct-2020 11:47 AM

Thanks, HM for the explanation!

Anonymous

15-Oct-2020 11:48 AM

M.F

Since photovoltaic cells (also called solar cells) produce DC this has to be converted often into AC, e.g. when
Add text or multimedia material or links („Annotations“, various alternatives are available)

Simple version allows to create a link on any spot desired:

Text
Picture
Clip
...or combination
The decision to build a demo around the name Tesla emerged since Graz University of Technology decided to honor the former student Tesla by publishing a book on him, one version in English, the other in German. The name Tesla as name for one of the earliest electric cars allowed to also add a little bit on the electric cars, and on Musk as the mastermind behind it and other interesting endeavors.
Thomas Alva Edison (February 11, 1847 – October 18, 1931) was an American inventor and businessman who has been described as America’s greatest inventor.
Book for Experiments

Please enter the book and try out to make annotation to pieces of information, or fool around in any way using the annotation features (left upper corner of page when you have logged in). We will delete most experimental information once in a while. But please: Do add meaning full annotation to the other books available.
Important: Documents can be opened with „Simple Menu“. Switching to „Full Menu“ gives more options, possibly confusing. Login not necessary.
The best view over the northern part of Malta is provided by the Red Tower, one of the 23 signal and watchtowers from the time of the Knights of St. John. 50 men were stationed here.

Den besten Blick über das nördliche Malta gewährte der Red Tower, einer der 23 Signal- und Wachtürme aus der Johanniterzeit. 50 Mann waren hier einst stationiert.

By choosing this icon, users know what to expect: Some textual information. This and other special icons are only available under Fancy Annotations.
Table of Contents available on every page

- Front Cover
- Last Page
- Editorial: Vice Rector Horst Bischof
- Hydrogen: Electricity Storage of the Future?
- Commentary: Alexander Trattner
- Rainbow-Coloured Combs and Sunlight
- Battery Safety Center Graz
- Newsflash
- Fields of Expertise
- Advanced Materials Science
- Human & Biotechnology
- Information, Communication & Computing
- Mobility & Production
The importance of the specific, indeed unmistakable, character of a university lies in the particularly close link between scholarly research and teaching. In this way, insights are obtained which, as a further development of knowledge and in particular of the respective state of technology, justify the reputation of such an institution. Our world today is crucially shaped by technology, which entails both negative and positive aspects. The shared responsibility for our fellow human beings and for the environment is reflected in necessary decisions and programmes of action derived from them. Here, many contributions have been and are being made.

Fig.: Joanneum (Raubergasse 10) entrance gate with a row of coats of arms and a commemorative plaque (photo: H. Tezak).

Die Bedeutung und der spezifische, ja unverwechselbare Charakter einer Universität liegt in der besonders engen Verknüpfung von wissenschaftlicher Forschung und Lehre. Damit werden auch jene Einsichten erzielt, die als Weiterentwicklung des Wissens, im Speziellen des jeweiligen Standes der Technik, den Ruf einer solchen Einrichtung begründen. Unsere Welt von heute ist entscheidend durch die Technik geprägt, was positive wie negative Aspekte in sich birgt. Die gemeinsame Verantwortung für Mitmenschen und Umwelt findet ihren Niederschlag in notwendigen Entscheidungen und daraus abgeleiteten Handlungsprogrammen; hier wurden und werden vielfältige Beiträge erbracht.
Full-text search in NID documents
Different types of Quiz are available

Q. Where is Red Tower located

- Earth
- Southern Part of Malta
- Northern Part of Malta
- Mars

Option 3: Correct
Search for Object categories
It is remarkable that even with the very small objects, the algorithm recognizes them as a "tie"!
Using AI techniques for term extraction of pages as first step towards (semi-automatic) linking of material

In February, IIAAS Director General and CEO Albert van der Haar led a delegation from the institute to participate at the annual conference of the American Association for the Advancement of Science (AAAS), the world's largest general scientific society. The focus of this year's event was on how science can bring together people, ideas, and solutions from across borders, disciplines, and ideologies to address the most pressing problems of our time. IIAAS is uniquely positioned to provide extensive expertise on these topics, as they are fundamental to the institute's multidisciplinary approach and its commitment to the promotion of scientific cooperation at the local, regional, and global level.

IIASA organized two conference sessions as part of the proceedings, the first of which focused on cross-disciplinary science, while the second addressed science diplomacy. Delegates from the institute include representatives from various disciplines.

The session on science diplomacy looked at the role that IIASA science has played in building bridges across political divides since its establishment in 1972, and highlighted the institute's increasingly important role in the international discourse about sustainable development, particularly in terms of the SDGs. In light of rising tensions between East and West in contemporary geopolitics, speakers also reflected on how facilitating scientific training across borders through platforms like the IIASA Young Scientists Summer Program can aid in easing tensions between countries with troubled relations.

Science advice to government is a priority at IIAAS, a model that has been successfully implemented in various countries around the world.

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**Page Tags:** science, agricultural, development, sustainable, policies, advice, land, scientific, global, systems

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**From another page**

**Page Tags:** energy, electricity, africa, hydropower, sustainable, study, morocco, renewable, potential, assessment

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The upper part of page 7 of (https://nid.iicm.tugraz.at/Home/BookDetail/127) where interesting terms ("tags") are extracted with option AI
The original idea of my talk was to also address a number of provocative issues that all the time are reported distorted in the media, and hence paint a completely wrong picture of what our real problems are:

--- Alarmism
--- Reports on climate change (CO2 etc.)
--- Overpopulation
--- Green Energy
--- Mobility
--- Power of Europe

Those interested should read:

***Fehlalarm (von Leopold STUMMER)
***Apocalypse Never (von Michael Shellenberger)
If you are interested in the NID system, contact me at hmaurer@iicm.edu

Thanks for your attention!

Hermann Maurer

Me:  https://www.ae-info.org/ae/Member/Maurer_Hermann