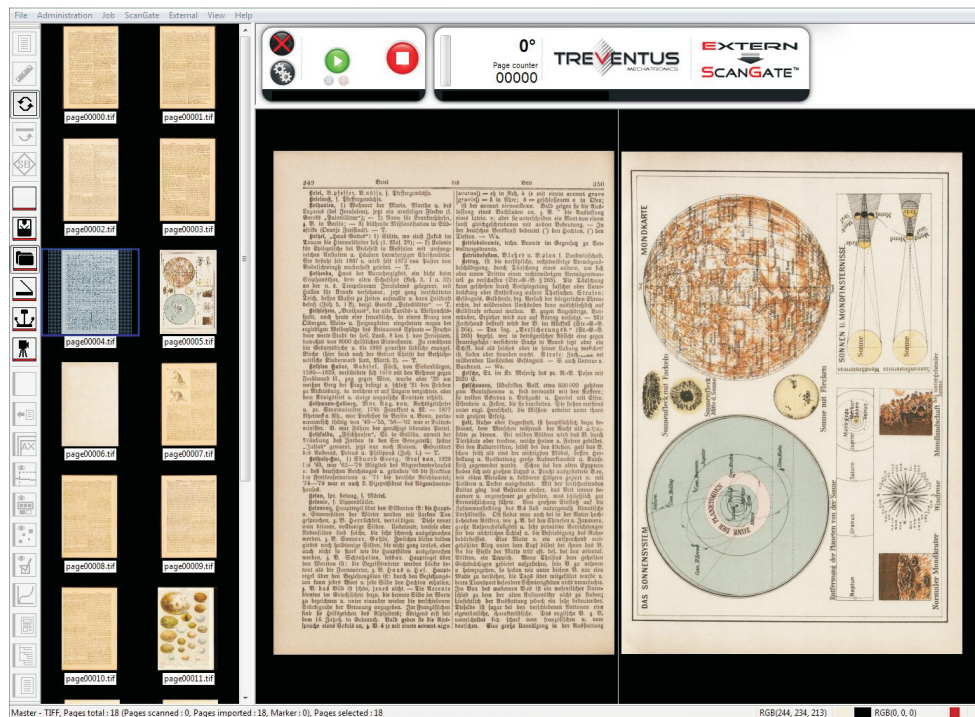


SCANGATE™

Capturing, Processing & Management Software

Advantages

- Easy and intuitive
- Meta data interface
- Applicable for different scanner hardware
- Real-time preview for fast quality control
- Comprehensive image processing functions



... with integrated workflow module

BENEFITS

ScanGate™

... the most powerful software **to accelerate** your mass digitization projects.

- Easy integration in existing digitization environments
- Applicable for different scanner hardware
- Meta data editor
- OCR interface
- Available in different languages

Efficient & Economic / High productivity

... especially developed for **mass digitization**.

- Fully automatic and fast image processing functions
- Real-time preview
- Reprint functions
- Efficient and simple job administration



Integrated workflow module

... **to automate** local image processing, user and system tasks exact to your needs.

- Create your own individual workflows
- Automated batch processing & image treatment
- Comprehensive image import functions
- Fully compatible with the **ScanFlow™ Professional*** software environment

* for more information visit www.treventus.com

BENEFITS

ScanGate™ user interface

Scanning interfaces
(optional)

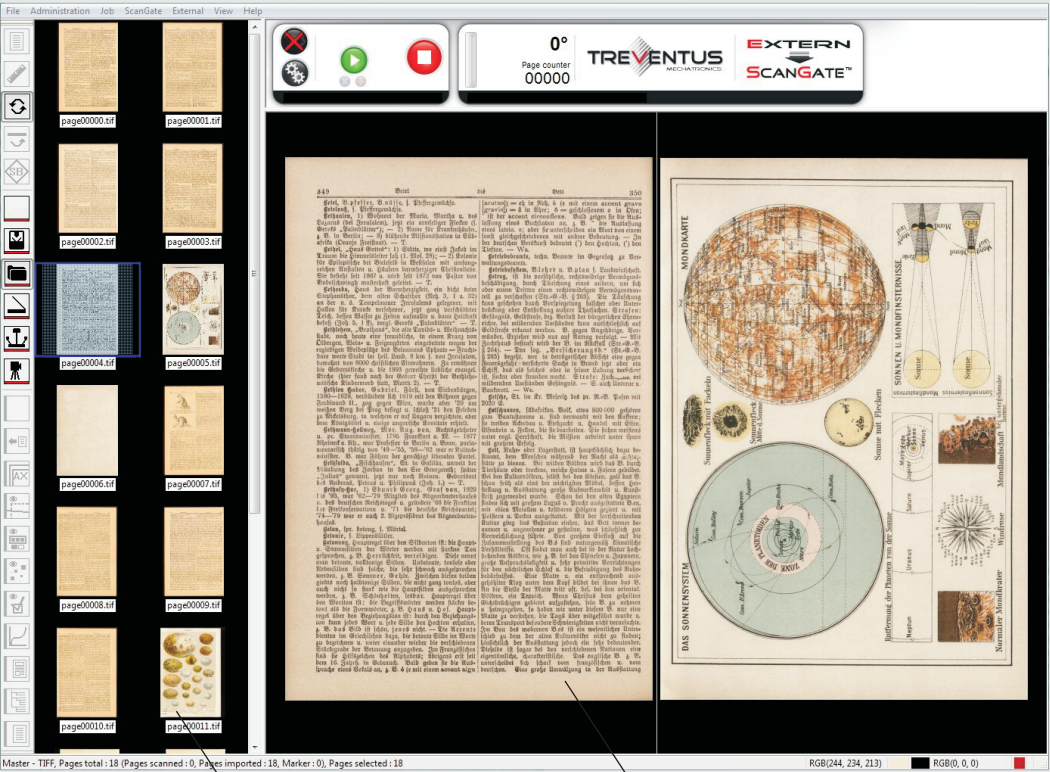


- ScanRobot®
- Hotfolder interface
- TWAIN-interface
- Bookeye scanners
- Canon-digicams

Meta data panel

Control panel

Process state



Process panels

Thumbnails

Main window

I. META DATA HANDLING

Bibliographic meta data

| Bibliographic metadata | |
|------------------------|-------------------------------------------------------|
| DUBLIN CORE | |
| TITLE | ScanRobot Manual |
| CREATOR | Christoph Bacher |
| SUBJECT | About an automatic book scanner |
| DESCRIPTION | Explains the function and hardware of the ScanRobot.. |
| PUBLISHER | TreVentus Mechatronics |
| CONTRIBUTOR | |
| DATE | 2012.05.01 |
| TYPE | Paperback |
| ... | Your variable |

- Dublin core
- Unlimited input fields
- All fields customizable

| | |
|------|---------------|
| DATE | 2012.05.01 |
| TYPE | Paperback |
| ... | Your variable |

Workflow control - meta data

| Workflow Control | |
|------------------------|-------------------------------------------------------------------------------------------------|
| PROJECT NAME | Project2 |
| ORDER NAME | Order 123 |
| JOB ID | JOB_012345 |
| BOOK ID | ISBN1234567890 |
| COLOR DEPTH CONVERSION | Original |
| OUTPUT IMAGE FORMATS | <input type="radio"/> Jpeg <input checked="" type="radio"/> Tif <input type="radio"/> Png |
| OCR | <input checked="" type="checkbox"/> OCR |
| OCR LANGUAGES | Deutsch English العربية Español |


- Project metadata
- Several Id's
- Colour depth conversion
- Image output formats
- OCR settings

| | |
|--------------|----------------|
| PROJECT NAME | Project2 |
| ORDER NAME | Order 123 |
| JOB ID | JOB_012345 |
| BOOK ID | ISBN1234567890 |

Document delivery - meta data

| Document delivery | |
|----------------------------------------|-------------------------------------------------------------------------------------|
| JOB_012345 |  |
| BOOK ID | |
| CUSTOMER ID | ID012345 |
| CUSTOMER NAME | Hans Meier |
| CUSTOMER EMAIL | Hans.Meier@blabla.com |
| FTP SERVER UPLOAD | <input checked="" type="checkbox"/> FTP Server Upload |
| FTP SERVER | ftp.treventus.com |
| CUSTOMER EMAIL NOTIFICATION | <input checked="" type="checkbox"/> Customer email notification |
| REMOVE DOCUMENTS FROM FTP SERVER AFTER | 2 weeks |

- Individual barcode support
- Customer information
- Server upload support
- Automatic backup strategy
- Input fields customizable

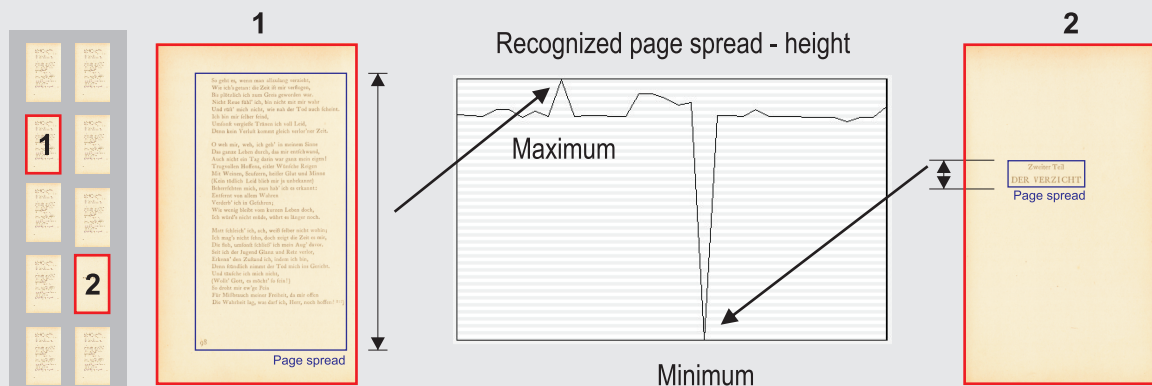
| Document delivery | |
|-------------------|---------------------------------------------------------------------------------------|
| JOB_012345 |  |
| BOOK ID | |
| CUSTOMER ID | ID012345 |

II. RECOGNITION FUNCTIONS

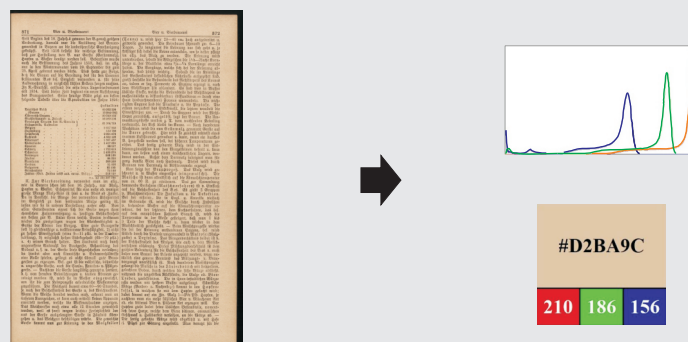
Automatic border recognition



Border evaluation - e.g. page spread etc.

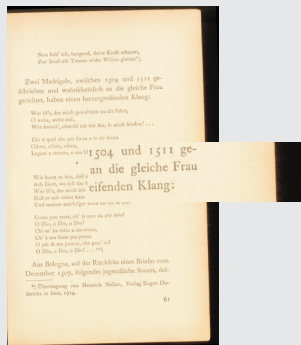


Automatic background color recognition

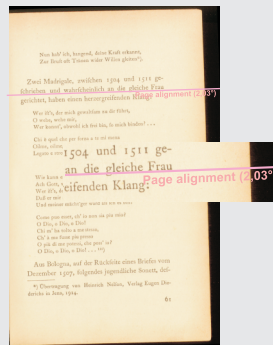


III. IMAGE SHAPE FUNCTIONS

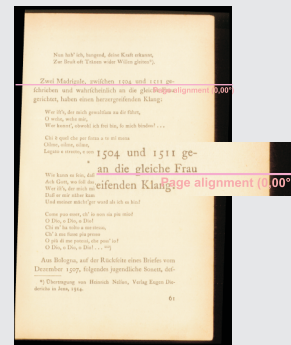
Deskewing



Skew not calculated

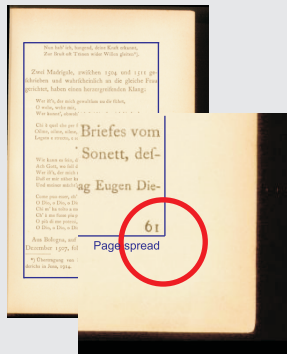


Page skew = 2.03°

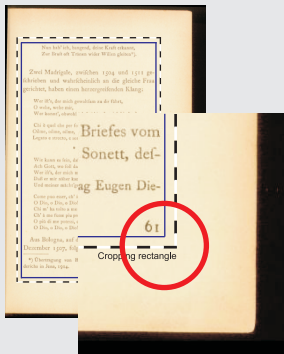
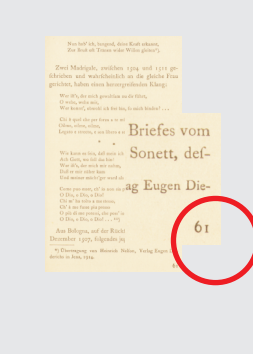


Page deskewed → 0.00°

Cropping



Page spread recognized

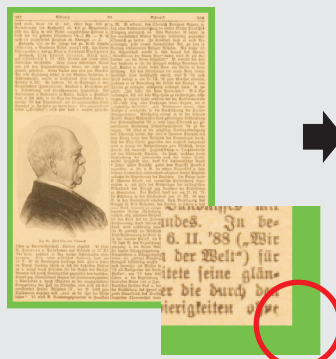
Cropping rectangle
5mm safety margin added

Cropped

Extrapolation



No extrapolation

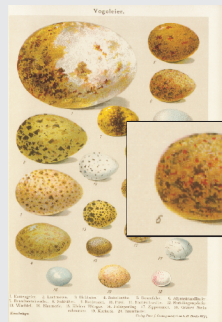


Extrapolation preview

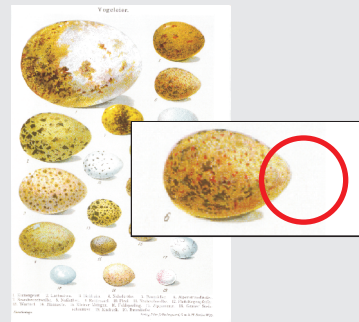
Extrapolation with
background color

IV. IMAGE OPTIMIZATION FUNCTIONS

Automatic background removing

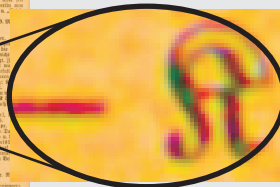


Original



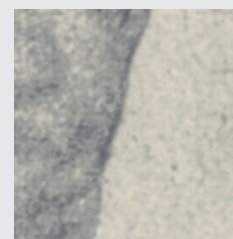
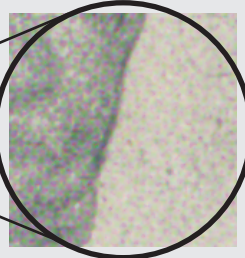
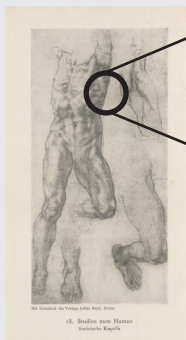
- Image is unchanged
- only background is removed

Automatic achromatism reducing



Achromatism is removed

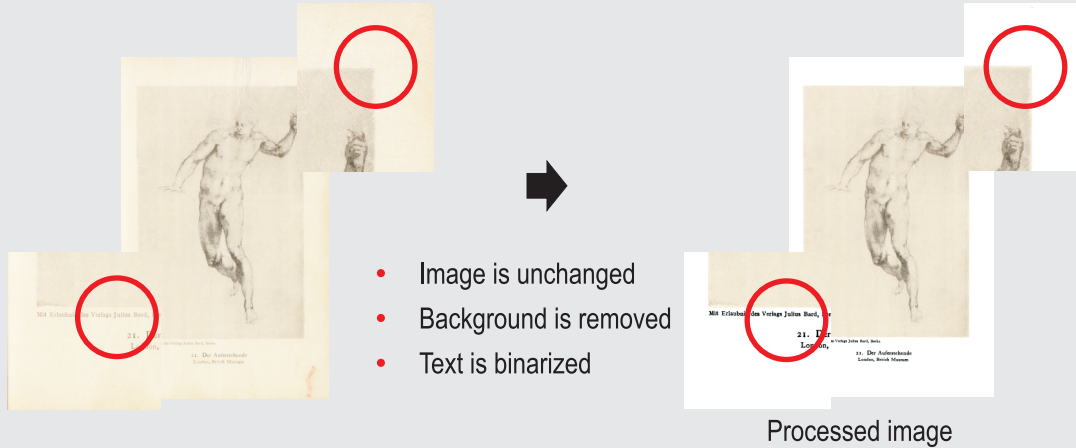
Automatic Moiré effect removing



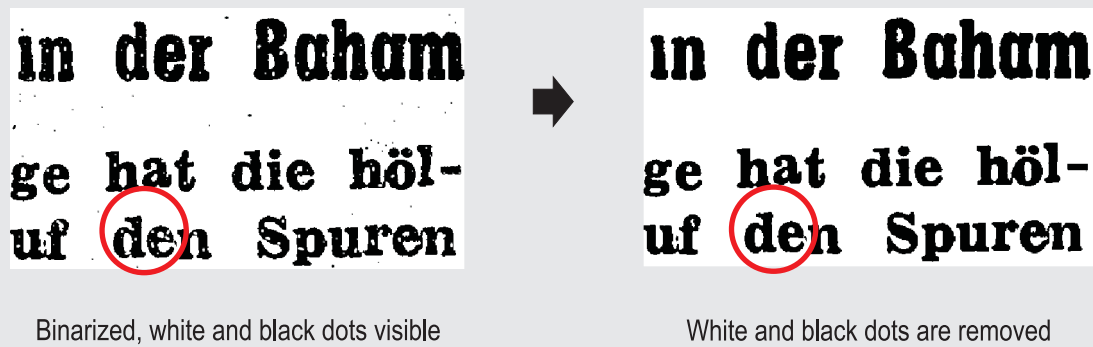
Moiré effect is removed

V. REPRINT FUNCTIONS

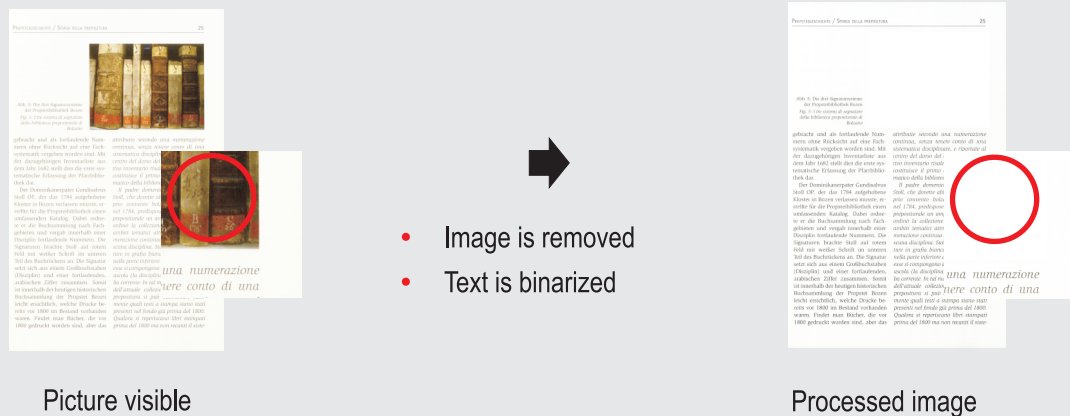
Area protection



Automatic despeckling



Area removing (Copyright issue)



VI. IMAGE OVERLAY FUNCTIONS

Adding ruler



Ruler added

Adding watermark



+

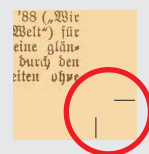
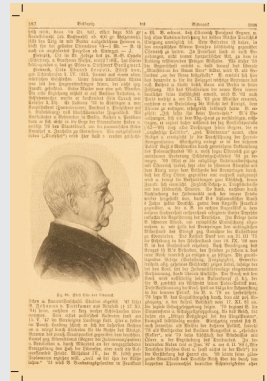
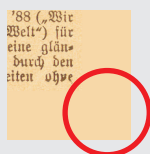
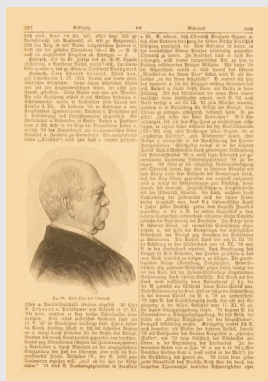


Watermark logo



Watermark added

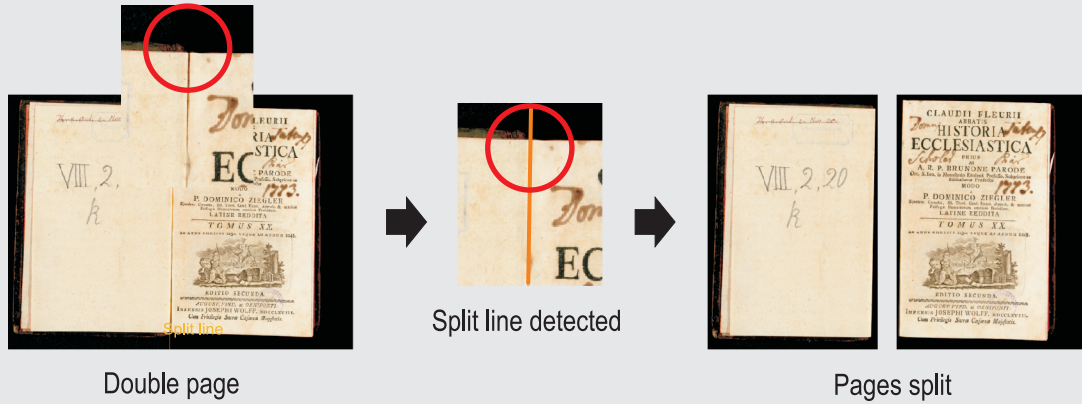
Adding trim mark



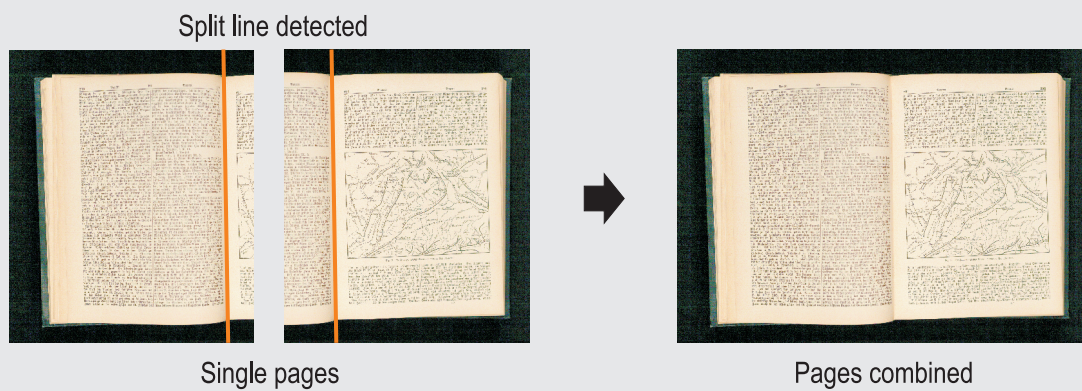
Trim marks added

VII. PLANETARY SCANNER FUNCTIONS

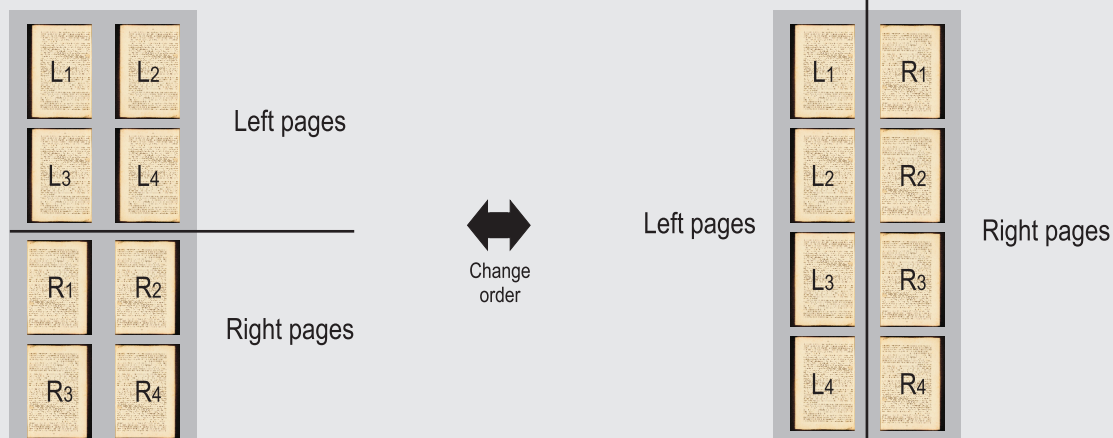
Automatic split line detection and page splitting



Page combining



Interlink & re-interlink pages ...for scanners that scan only single pages



VIII. GENERAL FUNCTIONS

Image scaling

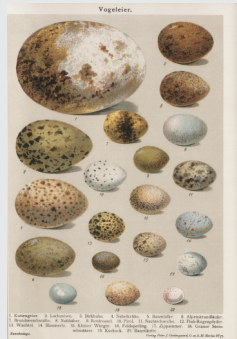


Scaled to predefined height

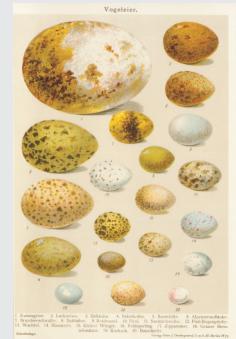


Scaled to predefined width

Color management - ICC profile handling

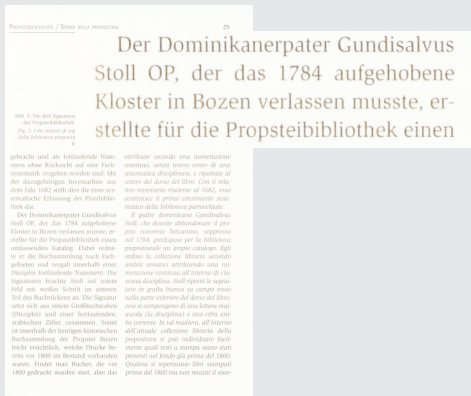


No ICC profile



ICC profile embedded

OCR* - searchable pdf



*Optical Character Recognition (optional third party product)

Searchable text

IMAGE PROCESSING EXAMPLE 1

Used hardware: ScanRobot®

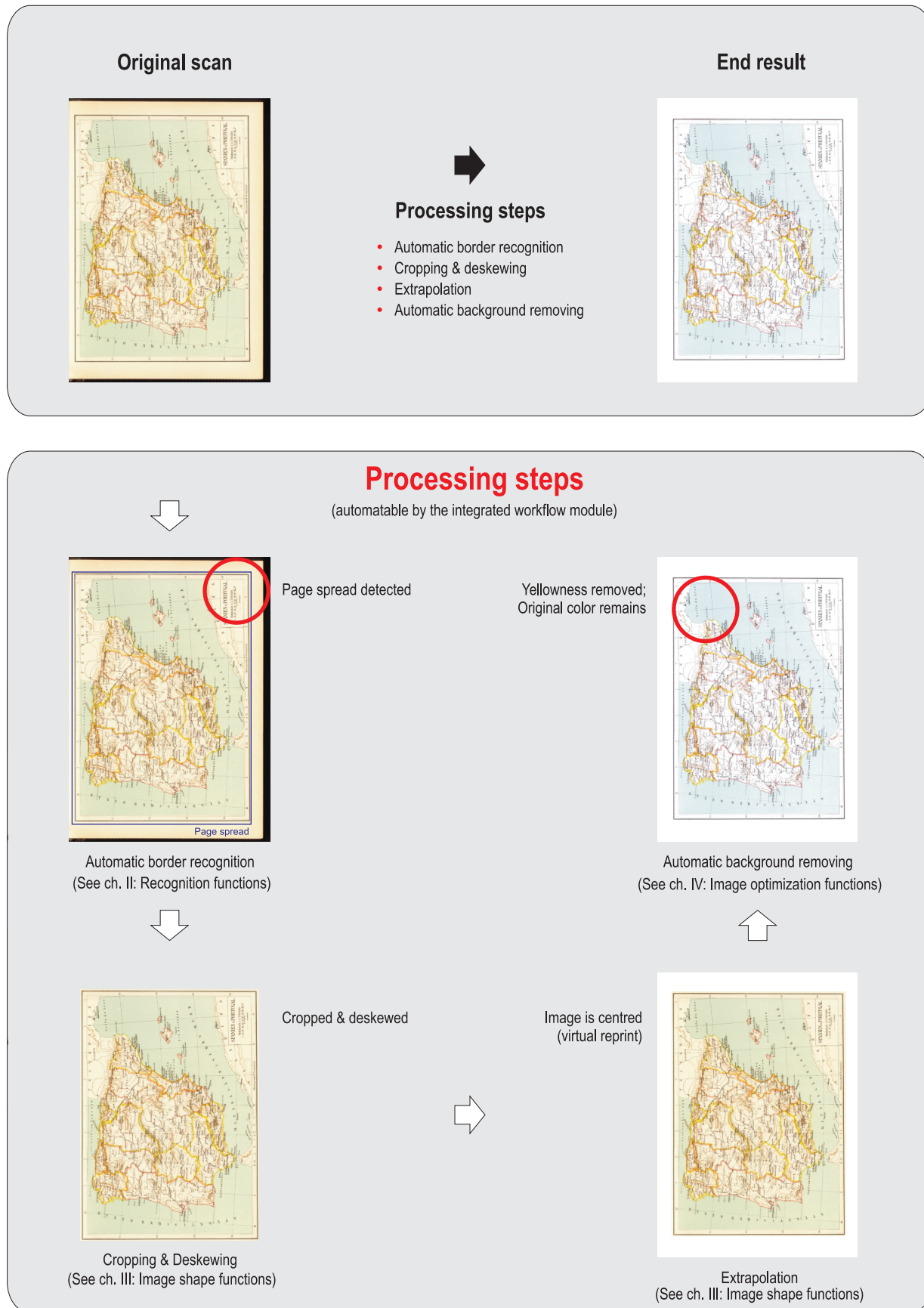


IMAGE PROCESSING EXAMPLE 2

Used hardware: planetary scanner



SPECIFICATIONS

I. Meta data handling

- Bibliographic meta data*
- Work flow meta data*
- Meta data for document delivery*

*customizable

II. Recognition functions

- Automatic border recognition
- Border evaluation (e.g. Page size, page spread, page alignment, distances,...)
- Automatic background color recognition

III. Image shape functions

- Deskewing
- Cropping
- Extrapolation

IV. Image optimization functions

- Automatic background removing
- Automatic achromatism reducing
- Automatic Moiré effect removing

V. Reprint functions

- Area protection
- Automatic despeckling
- Area removing

VI. Image overlay functions

- Adding rule
- Adding watermark
- Adding trim mark

VII. Planetary scanner functions

- Automatic split line detection
- Page splitting
- Page combining
- Interlink & re-interlink pages

VIII. General functions

- Image scaling
- Color management - ICC profiles
- OCR interface (optional)

IX. Standard image functions

- Format conversion
- Resizing
- Binarization
- Brightness / contrast adaption
- Unsharp masking
- Page rotation / flipping

X. Structure functions

- One dimensional structuring of the pages (groups)
- Group naming

XI. Optionals

- Scanner interfaces
- ScanFlow™ PROFESSIONAL

XII. Copy & uploading functions

- Image copying / uploading
- Copying / uploading of pdf/a², DjVu, pdf (incl. OCR layer)², XML, doc², rtf², csv², plain text files²
- Meta data copying / uploading

XIII. Storage formats¹

- jpg, jpg2000, tiff, tiff G4, png, gif, bmp,
- pdf/a², DjVu, pdf (incl. OCR layer)², XML, doc², rtf², csv², plain text²

¹ All formats can be stored simultaneously.

² In combination with the OCR software (third party product).

World Wide References



Don Juan Archiv Wien, AUSTRIA
Brazilian Institute of Agronomic Research, BRAZIL
University of Prince Edward Island, CANADA
AGN, National Archives of COLOMBIA
NKP, National Library of CZECH REPUBLIC
Bavarian State Library, GERMANY
National University of Educational Planning & Administration, INDIA
Trinity College Library, IRELAND
Meteo Operation Center, JAPAN
Nazarbaev University, KAZAKHSTAN
Ministry of Awqaf and Islamic Affairs, KUWAIT
LNB, National Library of LATVIA
Mongol-Korea Technical College, MONGOLIA
GMS Digitaliseert Service Provider, NETHERLANDS
Nasjonalbiblioteket, National Library of NORWAY
Academy of Science Library, POLAND
Siberian Federal University, RUSSIA
King Fahd Private Library, SAUDIA ARABIA
Slovak National Library, SLOVAKIA
Kungliga biblioteket, National Library of SWEDEN
ETH Library of Zürich, SWITZERLAND
Ukrainian Institute of Industrial Property, UKRAINE
Archive Quest Service Provider, UNITED KINGDOM
The Getty Research Institute, UNITED STATES
Vietnam Institute of Social Sciences Information, VIETNAM


... and many more ...

Alphabetical order by countries.

PRODUCT FAMILY

SCANROBOT® 2.0 MDS
MASS DIGITIZATION SYSTEM

Automatic scanning
fast and gentle up to 2.500 pages / hour
Semi-automatic scanning
for most gentle scanning of fragile books
Manual scanning
covers, spine, fold outs...



UNIQUE PATENTED PRISM TECHNOLOGY

TREVENTUS

SCANGATE™
Capturing, Processing & Management Software

Advantages

- Easy and intuitive
- Step-by-step workflow
- Applicable for different scanner hardware
- Real-time preview for fast quality control
- Comprehensive processing functions



... with integrated workflow module

TREVENTUS

SCANFLOW™
Professional
Workflow & Management Software



Advantages

- Increasing the throughput & output quality
- Efficient organization of staff, scanning hardware, data and books
- Minimization of human interaction and errors
- Fast quality control functions

... let the software work

TREVENTUS

NAINUWA™
open your Mind

**Dynamic
Digital
Collection
Viewer**

Advantages

- Innovative image stitching
- Intuitive search and sort functions
- Fast and efficient image loading
- Adaptive scanning
- Ergonomic view setting
- Browser based application



WWW.NAINUWA.COM
please contact us for a Test Login
and Demo Version

TREVENTUS

**CONSULTING
SERVICE**
support at any stage

TREVENTUS, your...

- Overview study for your digitization project
- High-level advice and support for your needs
- Tailor-made solutions based on your needs
- Experienced and professional business relations
- State-of-the-art knowledge

BUILD YOUR DIGITAL LIBRARY!

| | |
|------------------------|---------------------|
| Digital Library System | Storage |
| Analysis | Documentation |
| OCR | Processing |
| Quality check | Scanner hardware |
| Backup | Workflow management |
| Book layout | Scanning |
| Plan | Organize |

... ask us for advice

TREVENTUS

**TREVENTUS
OCRSOLUTIONS**
Software for automated text recognition

Advantages

- Highly automated - no operator interaction needed
- Direct integration into digitization workflow
- Various OCR packages for individual project sizes and requirements
- Entire solution from one supplier



TREVENTUS

MARCH 2015

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Awards for TREVENTUS

Winner of the European ICT Grand Prize

Innovation prize of the Theodor Kery foundation

1st place in Genius Innovation Award

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