



TWC/23/16

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INTERNATIONAL UNION FOR THE PROTECTION OF NEW VARIETIES OF PLANTS
GENEVA

**TECHNICAL WORKING PARTY
ON
AUTOMATION AND COMPUTER PROGRAMS**

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DATABASE TO SEARCH FOR TWC DOCUMENTS

Document prepared by experts from Germany

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Introduction

1. The following is a proposal for the development of a database to search for documents of the UPOV Technical Working Party on Automation and Computer Programs (TWC). With this database it would be possible to store all documents with additional information and to search for documents and their history.

Present status of 'Index to TWC documents'

2. Starting with the information from document TWC/20/5 "TELECOMUNICATIONS, EXCHANGEABLE SOFTWARE AND CONTACTS" Part "Index to TWC Documents 1986 to 2001" we can have different arrangements in groups. The document TWC/20/5 consists of five parts. Here we develop a database regarding the second part of the document TWC/20/5 'Index to TWC Documents'. Figure 1 shows the structure of tables in TWC/20/5.

Figure 1: Structure of tables in document TWC/20/5 'Telecommunications, Exchangeable Software and Contacts'

Ref	Group	Title	Author	Date
DISTINCTNESS				
18/02	A	Use of COY-D and COY-U approach in more than one location in forage crops	Gregoire	09.05.00
18/04	A	Efficiency of incomplete block designs in winter rape, spring rape and yellow mustard	Kristensen	11.05.00
18/05	-	On the possibility of application of incomplete block designs in DUS trials with groups of genotypes	Pilarczyk	16.05.00
18/06	A/V	The Efficiency of different designs in DUS Trail on pea varieties	Pilarczyk	16.06.00
18/07	-	Design and Analysis of DUS special tests	Talbot	16.05.00
18/10	-	The combined-over-years- distinctness and uniformity criteria (revised document TWC/15/7)	Talbot, Watson	19.05.00
17/08	A	Efficiency of IB designs in spring rape and yellow mustard	Kristensen	02.06.99
17/10	-	Early decision-making in DUS testing	Talbot	03.06.99
17/11	A	Reduction of herbage DUS trial size by cyclic planting of reference varieties	Watson	22.06.99
16/12	A	Efficiency of different designs in spring rape	Kristensen, Jensen	18.05.98
16/04	-	Some remarks on COYD	Piepho	05.05.98
16/03	-	Distinctness and GxE interactions	Piepho, Laidig	06.05.98
16/02	A	Application of incomplete block designs in DUS trials	Pilarczyk	29.03.98
15/07	-	Users notes for COYD and COYU procedures	Talbot, Watson, Weatherup	09.05.97
15/06	-	Use of COYD and COYU amongst UPOV members	Law	13.05.97
14/16	-	COYD long-term LSD	Kristensen	04.06.96

14/7	-	The combined over-years distinction criterion	Talbot	08.05.96
13/07	A	Analysis of single-year trial results using long-term LSD for herbage species	Weatherup	18.04.95

3. The following groups have been defined up to now:

1. Grouped by subject matter:

- Distinctness
- Uniformity
- Identifying similar varieties
- Sequential acceptance sampling
- Visually scored data
- Image analysis
- Biochemical and molecular data
- Miscellaneous
- Other subjects are possible

2. Grouped by crops

- G general
- A agriculture
- V vegetables
- F fruit
- O ornamental and forest tree
- Other groups are possible

3. Grouped by session

- TWC/18 Session
- TWC/19 Session
- TWC/20 Session
- TWC/21 Session
- TWC/22 Session
- Other sessions are possible

New database for 'Index to TWC documents'

4. For storing the information in the database we use five tables (T01 to T05):

- T01_Documents storage the information to the special document
 - Document_Id – primary key
 - Document_Code – reference number assigned by the UPOV office
 - Document_Title – title of the document
 - Document_Date – date of writing the document
 - Document_Object – an OLE-Object with the document in PDF-format
- T02_Authors storage the information to the authors of the documents
 - Author_Id – primary key
 - Author_Name – name of the author

- Author_Organ – name of the organisation
 - Author_Country – name of the country from the author
 - Author_City – name of the city from the author
- T03_Sessions storage the information to sessions where the document was presented
 - Session_Id – primary key
 - Session_Code – UPOV-code to identify the session
 - Session_Country – country where the session was
 - Session_City – city where the session was
 - Session_Date – the month and the year when the session was
 - T04_Groups storage the information to the groups by crops
 - Group_Id – primary key
 - Group_Code – a short code of the groups by crops
 - Group_Description – the description of the groups by crops
 - T05_Subjects storage the information to the subjects
 - Subject_Id – primary key
 - Subject_Description – the description of the subjects

To link the five tables, four other tables are necessary:

- T06_Document_Group (Document_Id, Group_Id)
- T07_Document_Author (Document_Id, Author_Id)
- T08_Document_Session (Document_Id, Session_Id)
- T09_Document_Subject (Document_Id, Subject_Id)

The linking is for all tables on the same way. As an example the relation between the tables T01_Documents and T04_Groups:

T01_Documents(Document_Id) 1-∞ (Document_Id)T06_Document_Group(Group_Id) ∞-1 (Group_Id)T04_Groups

We use a 1 to ∞ relation because it is possible that one document is in more than one group and in one group there is more than one document.

The table T10_Document_Documentprev is a special table for the history of the documents.

- Document_Id – identify the document
- Document_Id_previous – identify the previous document

One document can have more than one previous version and one document can be for more than one the previous version.

In Figure 2, the current structure of the database is shown with tables and relations between them.

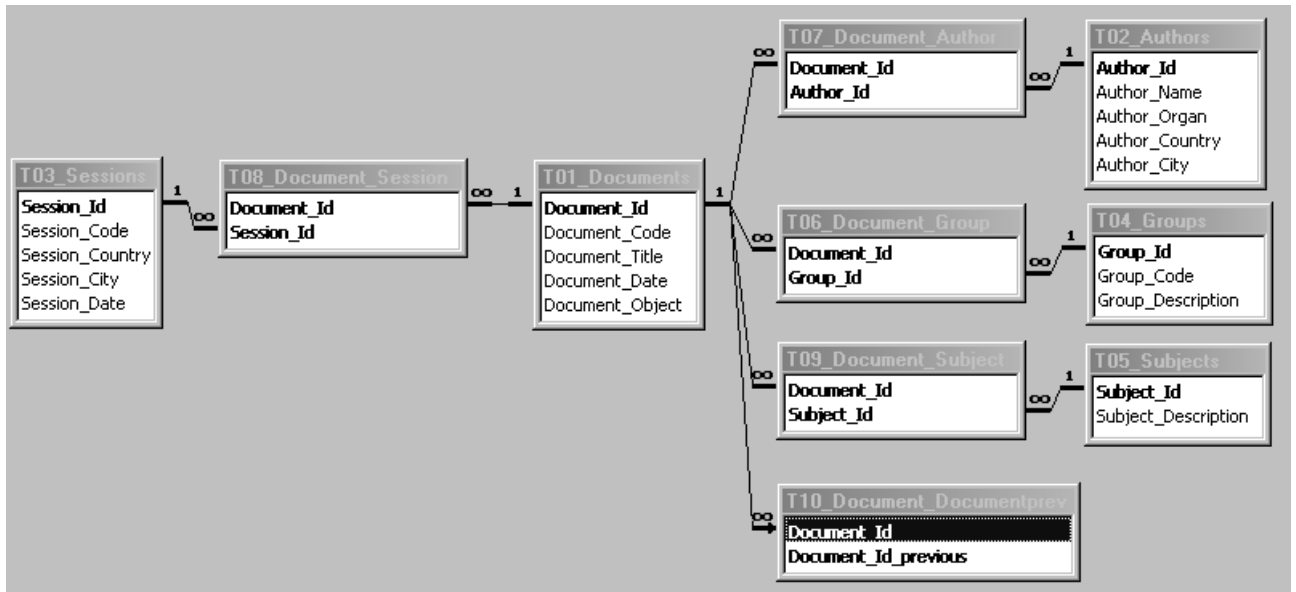


Figure 2: Relations between the tables in the database

5. Figure 3 shows the form to search on the database. In this version we have the possibility to search for session-code, subject-description, group-description, code of the document, name of the author, title of the document and the period of writing the document. The search terms can be combined with “or” or with “and”. In the middle of the form, the search results are displayed. The further Information to the documents are on the registers. With double-click on Document_Object it is possible to open the document as a PDF-file. Figure 4 shows the form opened by clicking on the button “Other Document”. Here are displayed all documents which are connected to the actual record. The search results from the forms in Figure 3 and Figure 4 can also be printed.

F21_Search

Session Code: [] Subject Description: [] Group Description: [] Document Code: [] Author Name: [] Search with: OR AND

Document Title: [] From: [] To: []

Clear Search Print

Document Code	Document Title	Doc Date	Doc Object	Other Document
TWC/17/8	Efficiency of incomplete block desings in Spring Rape and Yellow Mustard	01.06.1999		[]
TWC/17/2	On efficiency of resolvable incomplete block designs in DUS trial on	01.06.1999		[]
TWC/18/02	Use of COY-D and COY-U aproach in more than one location in forage crops	09.05.2000		[]
TWC/18/4	Efficiency of incomplete block desings in Winter Rape Spring Rape and Yellow	11.05.2000		[]
TWC/18/6	The efficiency of different designs in DUS trial on pea varieties	16.05.2000		[]
TWC/18/9	Types of Characteristics and Their Scale Levels	12.06.2000		[]
TWC/18/06	The Efficiency of different desings in DUS Trail on pea varieties	16.06.2000		[]
TWC/19/3	The efficiency of incomplete block desings in DUS trial on pea varieties	17.04.2001		[]

Subjects Groups Authors Sessions

Subject Description: [Distinctness]

Datensatz: 1 von 60

Figure 3: Form to search in the database

F01_Documents

Document Code	Document Title	Doc Date	Doc Object	Doc_Code previous
TWC/18/9	Types of Characteristics and Their Scale Levels	12.06.2000		
TWC/19/10	Types of Characteristics and Their Scale Levels	04.06.2001		TWC/18/9
TWV/35/17	Types of Characteristics and their Scale Levels	25.06.2001		TWC/18/9
TWA/30/8	Draft for TGP/8 "Good Statistical Practices For DUS Testing" Section 4: Types	03.09.2001		TWV/35/17
TWA/30/8	Draft for TGP/8 "Good Statistical Practices For DUS Testing" Section 4: Types	03.09.2001		TWC/19/10
TWD/34/10	Draft for TGP/8 "Good Statistical Practices for DUS Testing"	24.09.2001		TWC/19/10
TWF/32/11	Draft for TGP/8 "Good Statistical Practices for DUS Testing" Section 4: Types	01.10.2001		TWC/19/10
TGP/8.4 D1	Types of Characteristics and Their Scale Levels	17.06.2002		TWC/19/10
TGP/8.4 D2	Types of Characteristics and Their Scale Levels	10.06.2003		TGP/8.4 D1
TGP/8.3 D3	Types of Characteristics and Their Scale Levels	14.06.2004		TGP/8.4 D2

Print

Datensatz: 1 von 10 (Gefiltert)

Figure 4: Form to display connected documents

Discussion

6. A new database to store information about TWC documents and the document itself is presented. The database can continue to collect such information as that in document TWC/20/5 'Telecommunications, exchangeable software and contacts' part 'Index to TWC Documents'. There are forms in the database for data entry and for searching procedures. The database can help members of TWC in their work to prepare new documents. The database with all documents which are available can be distributed by CD-ROM or integrated into the UPOV website. It is also proposed for discussion responsibilities for data entry and for assignment of subjects like 'Distinctness', 'Uniformity', etc.

7. It would also be possible to use the database for the documents of other Technical Working Parties.

8. Proposals to develop the database (information, structure, service) are welcome.

[End of document]