Non-English PhD dissertations and associated English journal papers

Ivanović Lidija\textsuperscript{1} \quad Ivanović Dragan\textsuperscript{2}

\textsuperscript{1}Faculty of Education, Sombor
University of Novi Sad

\textsuperscript{2}Faculty of Technical Sciences, Novi Sad
University of Novi Sad

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Outline

1 Introduction
   - The Studied Problem
   - Approaches For Problem Solving

2 Results/Contribution
   - CRIS UNS
   - PHD UNS
   - The extension for establishing connections

3 Conclusion
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3. Conclusion
Non-English science

- English is global language
- Any scientist should master English
- But it is certainly not the native language for the majority of scientists
- There is a science beyond science published in English
- 25 winners of the Nobel Prize in Literature up to 2001, wrote only 9 of their masterpieces in English and remaining 16 laureates in other native languages
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Some countries are making extra efforts to gain scientific visibility in their national language

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A lot of ETD repositories containing mainly non-English theses and dissertations

Serbian case - more than 90% of PhD dissertations in Serbian language

Authors of scientific publications want to attract interest to their work to enhance their reputation

- nationally
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Visibility of scientific-research results

- Related works about the importance of scientific-research results visibility
  - Knowledge-based society
  - Dissemination of scientific-research results
    - development of science
    - rating of authors
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Writing in English

- Is it in accordance with rules?
- Is that good for national heritage and science?
- Once again "Authors of scientific publications want to attract interest to their work to enhance their reputation nationally and internationally"
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Translation into English

- Writing dissertation in non-English language
- Translation into English in order to enhance author reputation internationally
- Time-consuming process
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- The Serbian Ministry of Science prescribed a rule - publishing an article in a journal belonging to the Web of Science JCR list is mandatory.

- Results published in Serbian language in a PhD dissertation are also visible to world science community through journal articles published in English.
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This paper presents an approach for establishing connection between those journal articles and PhD dissertations by implementing the following features:

1. The connection between a PhD dissertation and journal article is established by author or librarian.
2. If a PhD dissertation is a result of local searching of ETD repository, a reference to the associated journal article written in English is provided.
3. If a PhD dissertation has been exported to ETD repositories networks, link (identifier) to the PhD dissertation stored in an ETD node should open web page which provides a reference to the associated journal articles written in English as well.

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- Associated journal articles can be stored in CRIS UNS system or can be searched and downloaded using other scientific outputs repositories: Scopus, Google Scholar, etc.

- This approach is implemented within ETD repository of University of Novi Sad – PHD UNS.

- The same approach can be adopted for establishing connection between data sets and PhD dissertations - a CRIS system can also store data set using the cfResultProduct entity of CERIF data model.
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Non-English PhD dissertations, ETD 2016, Lille, France
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Scientific-research results in CRIS UNS

- Over 3000 researchers
- 14 faculties that belong to the University of Novi Sad
- Over 20000 published results
- Over 7000 scientific conferences
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Data model

- Not extended

- The CRIS UNS system is built on a CERIF compatible data model based on the MARC 21 format.

- PHD UNS is integrated within the CRIS UNS system, and PhD dissertations, journal articles and researchers are stored in MARC 21 bibliographic and authority format in the data model.
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Architecture

- Not extended with new modules/components
- PHD UNS has open-architecture which enables easy extension with new features
- The application for cataloguing published results in the MARC21 format was implemented in the multi-tiered client-server architecture on the Java platform
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Architecture

- User interface implementation is based on JSF and RichFaces library of JSF components based on AJAX
- Metadata are stored in MySQL DBMS
- Files are stored in server file system and migration of all files to storage server supporting 30 days backup are performed each night
- The Apache Lucene open-source information retrieval library is used for indexing and searching text contents
- The Apache Tomcat application server is used
The system enables edit of research entities: faculties and institutes, researchers, scientific-research outputs including articles published in journals.

- Article title and journal title are multilingual metadata.
- The CRIS UNS database contains two-years impact factors of the JCR lists for each year.
- Journals’ articles are classified into two groups:
  - Articles published in journals belonging to JCR lists
  - Articles published in journals NOT belonging to JCR lists.
Input of scientific entities

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An input wizard contains four dialogs

- The first dialog - uploading ETD and associated digital files such as board members’ report and license
- The rest three dialogs - input of ETD basic metadata; ETD advanced metadata; advisors and board members, respectively
- The ETD basic metadata are multilingual
- All ETDs defended at University of Novi Sad have basic metadata in at least two languages: Serbian and English
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Establishing connection

- Dissertations can be searched by metadata in English, but more than 90% of ETDs are written in the Serbian language.
- Once again, the Serbian Ministry of Science prescribed a rule that each dissertation before defend has to be verified by publishing its main results in at least one article published in a journal belonging to the Web of Science JCR list. Results published in Serbian language in a PhD dissertation are also visible to the science world community through journal articles published in English.
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Establishing connection

- The connection between those journal papers and PhD dissertations can be established using the dialog shown in Figure in the next slide.
- Basic metadata about a PhD dissertation are shown including author, publication language and title, as well as list of the author journal articles stored in CRIS UNS database.
- A user (librarian or researcher) can select journal articles which presents the main results of the certain PhD dissertation.
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```
Thesis or dissertation
Author: Milojić Uroš
Publication language: Serbian
Title: Production and quality assessment of fruit wines from native plum (Prunus domestica L.) varieties
Theses/dissertation type: PhD dissertation
Institutions: Faculty of Technology at Novi Sad, University of Novi Sad
Year: 2015


Related publications for the selected Ph.D. dissertation

<table>
<thead>
<tr>
<th>Publications</th>
<th>Selection</th>
</tr>
</thead>
<tbody>
<tr>
<td>Bajić, Bojan, Ristić, Zorana, Puškaš, Vladica, Miloš Uroš, Dragiša, Dedić, Jelena, Production of alcoholic beverages from apricot, Journal of Processing and Energy in Agriculture (ISSN: 1021-4487), Vol 19, No 2, 2015, pp. 52-55</td>
<td></td>
</tr>
<tr>
<td>Puškaš, Vladica, Miloš Uroš, Production of plum wines: A response surface methodology approach, Hemijska industrija, 68 (2), 2014, pp. 199-206</td>
<td></td>
</tr>
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</tbody>
</table>

More related publications...
```

Non-English PhD dissertations, ETD 2016, Lille, France

dragan.ivanovic@uns.ac.rs
Searching ETDs

- The PHD UNS digital library can be searched by the web application - http://cris.uns.ac.rs/searchDissertations.jsf
- Results of the search can be shown in the form of basic and advanced metadata, as well as in standardized bibliographic format MARC 21, Dublin Core and ETD-MS
- Also, there is a link for downloading ETD if it is published under open-access license
- Besides that, there is a list of connected journal articles as it is shown in Figure in the next slide
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Besides that, there is a list of connected journal articles as it is shown in Figure in the next slide
Searching ETDs

Search results

Number of results is 1
Sort by: relevance

MILJIĆ, U. (2015) Production and quality assessment of fruit wines from native plum (Prunus domestica L.) varieties. (PhD dissertation), Faculty of Technology at Novi Sad


Exporting ETDs

- PHD UNS exports data to digital libraries networks: DARTEurope, OATD, OpenAIRE+, NaRDuS
- The record of the previously shown PhD dissertation in the DARTEurope portal is shown in Figure in the next slide.
- There are two URLs (identifiers) in this record, the first for direct downloading of ETD from PHD UNS node, and the second for showing the record page in the PHD UNS web application.
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Title: Production and quality assessment of fruit wines from native plum (Prunus domestica L.) varieties

Author: Milić Uroš

Subject(s): Plum, fruit wine, fermentation, quality assessment, characterization, Šljiva, voćno vino, fermentacija, ocena kvaliteta, karakterizacija

Abstract: The aim of this PhD thesis was to assess the possibility of using three native plum varieties, with different ripening periods (Cačanska rana, Cačanska leotika and Pomegranate), as raw material for the production of fruit wines. Determined mechanical composition and chemical characteristics of plum pomace and juice indicate that the Cačanska leotika and Pomegranate are considered as better raw materials for the production of fruit wines compared to Cačanska rana. Optimization of fermentation conditions (temperature, pH) the duration of fermentation and the dose of pectolytic enzyme was conducted. This step also included the investigation of different pectolytic enzymes for the purpose of pomace and pomace evaluation of the impact of using different yeast strains, as well as the effect of different production microorganisms on the plum wine quality. It was found that the implemented optimization procedures predict the ethanol yield of 7.5% v/v, glycerol yield 5 g/l, the wine yield of 48% (48 ml from 100 g of pomace) and the formation of 710 mg/l of methanol. Characterization of the produced plum wines included the determination of the most important ingredients: alcohol, acids, minerals, phenolic and aromatic compounds (aromatics, antimicrobial and antiproliferative activities). Finally, the possibility of reducing the mean production in plum wine was estimated by applying different physico-chemical treatments of the pomace. Significantly higher efficiency of procedures that involve some form of heat treatment of pomace, compared to treatments which involve the use of certain oenological means, was observed.
Figure in the next slide shows the PHD UNS record page of the previously shown PhD dissertation record in DARTEurope.

Basic metadata about the PhD dissertation are shown including author, publication language and title, as well as list of connected journal articles stored in CRIS UNS database.

The list should contain at least one journal article which is published in the journal belonging to the JCR list according to the new Serbian rulebook for PhD studies.
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A record for a PhD dissertation by Milojka Uroš, Vladimir Puška, Vesna Višković, and Radko Bajer. The dissertation is titled "Production and quality assessment of fruit wines from native plum (Prunus domestica L.) varieties." It was published in Serbian in 2015 by the Faculty of Technology at Novi Sad, University of Novi Sad. The record includes related academic publications on wine production and quality assessment.
Summary

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- There is a science beyond science published in English
- More than 90% of PhD dissertations of the republic of Serbia have been written in national language (Serbian)
- Authors of scientific publications usually want to attract interest to their work to enhance their reputation both nationally and internationally
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Connection between those journal articles and PhD dissertations can be established at the University of Novi Sad using PHD UNS repository and CRIS UNS system.
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Establishing connection between data sets and PhD dissertations

Data sets can be catalogued in the CRIS UNS database using the CERIF cfResultProduct entity


C4D project, https://cerif4datasets.wordpress.com/
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Thank you for your attention!!!

If you have any questions, please do not hesitate to
  - ask me now
  - ask me during the conference breaks
  - contact me via email dragan.ivanovic@uns.ac.rs