

# Non-English PhD dissertations and associated English journal papers

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Dissertations, 2016

# 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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# 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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# Non-English science

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# Non-English theses and dissertations

- 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
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- Knowledge-based society
- Dissemination of scientific-research results
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# Write in non-English, publish parts in English

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- Publishing parts of PhD research in journals, conference proceedings, etc.
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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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# Our approach

- 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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# 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

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- 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 Rich-Faces 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

# Input of scientific entities

- 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
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# Input of ETDs

- **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 science World community through journal articles published in English**

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- The connection between those journal papers and PhD dissertations can be established using the dialog show in Figure in the next slide
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## Establishing connection

Related publications for the selected Ph.D. dissertation

## Selected dissertation

## Thesis or dissertation

Author: Miljić Uroš

Publication language: Serbian

Title: *Production and quality assessment of fruit wines from native plum (Prunus domestica L.) varieties*

Theses/dissertation type: PhD dissertation

Institution: Faculty of Technology at Novi Sad, University of Novi Sad

Year: 2015

Download: MILJIĆ, U., PUŠKAŠ, V., VUČUROVIĆ, V. and RAZMOVSKI, R. (2014) Acceptability of wine obtained with increased content of grape seed and stem as functional food. *Journal of the Institute of Brewing*, 120 (2), pp. 149-154MILJIĆ, U. and PUŠKAŠ, V. (2014) Influence of fermentation conditions on production of plum (*Prunus domestica L.*) wine: A response surface methodology approach. *Hemijaska industrija*, 68 (2), pp. 199-206

## Publications

## Selection

Publications	Selection
Bojić Bježana, Rončević Zorana, Puškaić Vlado, Mikić Uroš, Đodić Senka, Grabovac Jovana, Đodić Jelena. White wine production effluents used for biotechnological production of vanillin. <i>Journal on Processing and Energy in Agriculture</i> (ISSN: 1821-4487), Vol 19, No 1, 2015, pp. 52-55	<input type="checkbox"/>
Rončević Zorana, Bojić Bježana, Grabovac Jovana, Đodić Senka, Mikić Uroš, Puškaić Vlado, Đodić Jelena. Wastewaters from rose wine production as substrate for vanillin production. <i>International Journal of Environmental Engineering</i> (ISSN: 2374-1724), Vol 2, No 2, 2015, pp. 150-153.	<input type="checkbox"/>
Puškaić Vlado, Mikić Uroš, Bojić Bježana, Rončević Zorana, Đodić Jelena. Characterisation of wastewaters from different stages of wine production. <i>Journal on Processing and Energy in Agriculture</i> (ISSN: 1821-4487), Vol 19, No 3, 2015, pp. 136-138.	<input type="checkbox"/>
Mikić Uroš, Puškaić Vlado. Suitability of chosen plum cultivars ( <i>Prunus domestica L.</i> ) for fruit wine production. <i>Journal on Processing and Energy in Agriculture</i> (ISSN: 1821-4487), Vol 19, No 2, 2015, pp. 95-97.	<input type="checkbox"/>
Mikić Uroš, Puškaić Vlado, Vučurović Vesna, Razmovski Radolka. Acceptability of wine obtained with increased content of grape seed and stem as functional food. <i>Journal of the Institute of Brewing</i> (ISSN: 0046-6750), Vol 120, No 2, 2014, pp. 149-154.	<input checked="" type="checkbox"/>
Mikić Uroš, Puškaić Vlado. Influence of fermentation conditions on production of plum ( <i>Prunus domestica L.</i> ) wine: A response surface methodology approach. <i>Hemijaska industrija</i> (ISSN: 0367-596X), Vol 68, No 2, 2014, pp. 199-206.	<input checked="" type="checkbox"/>
Vučurović Vesna, Razmovski Radolka, Mikić Uroš, Puškaić Vlado. Removal of cationic and anionic azo dyes from aqueous solutions by adsorption on maize stem tissue. <i>Journal of the Taiwan Institute of Chemical Engineers</i> (ISSN: 1876-1070), Vol 45, No 4, 2014, pp. 1700-1708.	<input type="checkbox"/>
Vučurović Vesna, Razmovski Radolka, Mikić Uroš, Puškaić Vlado, Aljanski Marijana, Pastor Kristian. Thermo-acid pretreatment of starch based kitchen waste for ethanol production. <i>Analicta Technica Scaedrensia</i> (ISSN: 2064-7964), Vol 1, 2014, pp. 85-90	<input type="checkbox"/>
Mikić Uroš, Vučurović Vesna, Razmovski Radolka, Puškaić Vlado, Aljanski Marijana, Pastor Kristian. Optimisation of thermo-chemical hydrolysis of kitchen waste for ethanol production using response surface methodology (RSM). <i>Annals of the Faculty of Engineering Hunedara</i> (ISSN: 1584-2665pISSN:1584-2673eISSN:), Vol 12, No 4, 2014	<input type="checkbox"/>
Puškaić Vlado, Mikić Uroš, Vasić Vesna, Jokić Aleksandar, Marović Milena. Influence of cold stabilisation and chitosan membrane filtration on volatile compounds of apricot brandy. <i>Food and Bioproducts Processing</i> (ISSN: 0960-3085), Vol 91, No 4, 2013, pp. 340-351.	<input type="checkbox"/>








Save

Select all

Deselect all

# Searching ETDs

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- 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
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# Searching ETDs

## Search results

Number of results is 1

Sort by: **relevance**

**i** 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

Additional data   MARC 21   Dublin Core   ETD MS   Digital document   **Related papers**

MILJIĆ, U., PUŠKAŠ, V., VUČUROVIĆ, V. and RAZMOVSKI, R. (2014) Acceptability of wine obtained with increased content of grape seed and stem as functional food. *Journal of the Institute of Brewing*, 120 (2), pp. 149-154

MILJIĆ, U. and PUŠKAŠ, V. (2014) Influence of fermentation conditions on production of plum (*Prunus domestica* L.) wine: A response surface methodology approach. *Hemjska industrija*, 68 (2), pp. 199-206

# Exporting ETDs

- PHD UNS exports data to digital libraries networks: DARTEurope, OATD, OpenAIRE+, NaRDuS
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## Exporting ETDs

<b>Title</b>	Proizvodnja i ocena kvaliteta voćnog vina od sorti domaće šljive ( <i>Prunus domestica</i> L.)
<b>Title</b>	Production and quality assessment of fruit wines from native plum ( <i>Prunus domestica</i> L.) varieties
<b>Author</b>	Miljić Uroš
<b>Subject(s)</b>	Plum, fruit wine, fermentation, quality assessment, characterization, Šljiva, voćno vino, fermentacija, ocena kvaliteta, karakterizacija
<b>Abstract</b>	<p>Cilj ove doktorske disertacije je bio da se oceni mogućnost upotrebe tri sorte domaće šljive, različitih epoha sazrevanja (Čačanska rana, Čačanska leptotica i Požežaka), kao sirovina za proizvodnju voćnog vina. Utvrđeni mehanički sastav plodova i hemijske karakteristike klijuka i soka ispitivanih sorti šljive ukazuju da se Čačanska leptotica i Požežaka mogu smatrati boljim sirovinama za proizvodnju voćnog vina u odnosu na sortu Čačanska rana. Vrišena je optimizacija uslova alkoholne fermentacije (temperatura, vrednosti pH, trajanja fermentacije i doze enzimskog preparata), u sklopu koje je, takođe, ispitana i upotreba različitih pektolitickih enzima za tretman klijuka i ocenjen uticaj upotrebe različitih sojeva kvasaca, kao prozvodnih mikroorganizama, na kvalitet vina od šljive. Utvrđeno je da, među ispitanim proizvodnim organizmima, kvasac Spriřerm (S. cerevisiae) daje vino od šljive najboljeg kvaliteta. Postupkom numeričke optimizacije dobijane su sledeće vrednosti procesnih parametara fermentacije je vina od šljive: temperatura 25 °C, vrednost pH 3,5 i doza pektolitickog enzima 0,5 g/100 kg. Pri navedenim uslovima dobijeni fitovani modeli predviđaju prinos etanola od 7,5% v/v, prinos glicerola od 5g/l, prinos vina od 48% (48 ml vina na 100 g klijuka) i formiranje 710 mg/l metanola. Karakterizacija proizvedenog vina od šljive podrazumevala je određivanje sadržaja najvažnijih sastojaka: alkohola, kiselina, mineralnih materija, fenolnih i aromatičnih jedinjenja, kao i ocenu njegovih funkcionalnih karakteristika (antradi-katske, antimikrobne i antiproliferativne aktivnosti). Na kraju, ocenjena je mogućnost smanjenja produkcije metanola u vinu od šljive primenom različitih fizičko-hemijskih tretmana klijuka. Utvrđena je značajno veća efikasnost postupaka koji uključuju neki vid toplotnog tretmana klijuka u odnosu na postupke koji podrazumevaju upotrebu određene enoličkog sredstva.</p>
<b>Abstract</b>	<p>The aim of this PhD thesis was to assess the possibility of using three native plum varieties, with different ripening periods (Čačanska rana, Čačanska leptotica and Ponežaka), as raw material for the production of fruit wines. Determined mechanical composition and chemical characteristics of fruit pomace and juice indicate that the Čačanska leptotica and Ponežaka are considered as better raw materials for the production of fruit wine compared to Čačanska rana. Optimization of fermentation conditions (temperature, pH, the duration of fermentation and the dose of pectolytic enzyme) was conducted. This step also included investigation of the different pectolytic enzymes use for the treatment of pomace and evaluated 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, among the tested production microorganisms, Spriřerm (<i>S. cerevisiae</i>) yeast gives the plum wine of best quality. Numerical optimization procedure resulted with the following values of the process parameters of plum wine fermentation: temperature 25 °C, pH value 3.5 and pectolytic enzyme dose of 0.5 g/100 kg. Under these conditions the obtained fitted models 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 the 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, as well as evaluation of their functional characteristics (antradiacal, antimicrobial and antiproliferative activities). Finally, the possibility of reducing the methanol 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.</p>
<b>Publisher</b>	Univerzitet u Novom Sadu, Tehnološki fakultet Novi Sad
<b>Publisher</b>	University of Novi Sad, Faculty of Technology at Novi Sad
<b>Contributor(s)</b>	Dodić Jelena; Grahovac Jovana; Magazin Nenad; Pajović-Šćepanović Radmila; Puškaš Vladimir
<b>Date</b>	2015-04-06
<b>Type</b>	PhD thesis
<b>Identifier</b>	<a href="http://www.cris.uns.ac.rs/Download/FileServlet/Disertacija142832218315990.pdf?controlNumber={BIS}5193783&amp;fileName=142832218315990.pdf&amp;id=3481&amp;source=DARTEurope&amp;language=en">http://www.cris.uns.ac.rs/Download/FileServlet/Disertacija142832218315990.pdf?controlNumber={BIS}5193783&amp;fileName=142832218315990.pdf&amp;id=3481&amp;source=DARTEurope&amp;language=en</a>
<b>Identifier</b>	<a href="http://www.cris.uns.ac.rs/record.jsf?recordId=93783&amp;source=DARTEurope&amp;language=en">http://www.cris.uns.ac.rs/record.jsf?recordId=93783&amp;source=DARTEurope&amp;language=en</a>
<b>Language</b>	sr (latin script)

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# PHD UNS record page

## Record preview

### Thesis or dissertation

Author: Miljić Uroš

Publication language: Serbian

Title: *Production and quality assessment of fruit wines from native plum (*Prunus domestica L.*) varieties*

Theses/dissertation type: PhD dissertation

Institution: Faculty of Technology at Novi Sad, University of Novi Sad

Year: 2015

Download: 

## Related records

Miljić Uroš, Puškaš Vladimir, Vučurović Vesna, Razmovski Radoljka, Acceptability of wine obtained with increased content of grape seed and stem as functional food, *Journal of the Institute of Brewing* (ISSN: 0046-9750), Vol 120, No 2, 2014, pp. 149-154.

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# 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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## Plans for Future Study/Research

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- Data sets can be catalogued in the CRIS UNS database using the **CERIF cfResultProduct entity**
- Brander, S., Clements, A., McCutcheon, V., Cranner, P., Henderson, R. and Ginty, K. (2014). CERIF for datasets (C4D). In Theory and Practice of Digital Libraries–TPDL 2013 Selected Workshops, pp. 113-126. Springer International Publishing.
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# Questions

- 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](mailto:dragan.ivanovic@uns.ac.rs)