Integrated System of Services and Science Support Systems

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euroCRIS Strategic Membership Meeting, 20-22.11.2017, Bratislava, SLOVAKIA
• Integrated System of Services of the Slovak Centre of Scientific and Technical Information (Slovak acronym ISS CVTI SR)

• Central Register of Artistic Activities (Slovak acronym CREUČ)

• Central Registry of Publication Activity (Slovak acronym CREPČ)

• Centralized National Corpus of Electronic Theses and Dissertations (Slovak acronym CRZP) with Plagiarism Detection System (Slovak acronym APS)
Integrated System of Services of The Slovak Centre of Scientific and Technical Information (Slovak acronym ISS CVTI SR)

- Established in 2 phases:
  - In 2014 – web portal, AS, MATLAB
  - In 2015 – components of integration platform (ESB, BAM, ...), COMSOL, SAS

- For students and scientific researchers of Slovak universities, research institutes and Slovak Academy of Sciences

- Provide capabilities of Data Centre for Research and Development, support scientific research
  - Access to application software
  - Hosting, Webhosting, workshops, ...
Integrated System of Services of The Slovak Centre of Scientific and Technical Information (Slovak acronym ISS CVTI SR)

- Registration on [https://iss.cvtisr.sk](https://iss.cvtisr.sk)
- Private zone:
  - Service orders with management
  - Incident reporting and management
- Creation of user identity in the system
- Propagation through all relevant service systems with approved access
- Provided services:
  - MATLAB, COMSOL, SAS via RDP
  - Batch Mode for MATLAB on cluster = MATRON
  - WebDAV Data Storage
  - Hosting
  - Webhosting
  - Data Back Up & Restore
  - Consultations
Integrated System of Services of The Slovak Centre of Scientific and Technical Information (Slovak acronym ISS CVTI SR)

• Future steps:
  • Single Sign On
  • Web portal re-design
  • Provide more scientific application software for users
  • Infrastructure upgrade for more power efficiency of all system components
  • More efficient process management
  • More institutions and users to support
Central Register of Artistic Activities (Slovak acronym CREUČ)

- Established in 2008
- Complex-automatized collection and registration of artistic activities of Slovak universities since 2008, which are specialized in artistic study programs
- Creating a unique source of information for professionals and the public which enables the presentation and comparison of results of artistic activities of universities
- Provide a basis for calculation of state subsidy for public universities in Slovakia
Central Register of Artistic Activities (Slovak acronym CREUČ)

- Operated by SCSTI
- Central Registry of Publication Activity: common portal for both registers at cms.crepc.sk
- Publicly available art works, artistic activities and responses are registered
Central Register of Artistic Activities (Slovak acronym CREUČ)

• Subjects of the registration:
  • Visual arts
  • Design
  • Architecture
  • Restoration
  • Curatorship
  • Musical arts
  • Performing arts
  • Film
  • Dance
Central Registry of Publication Activity (Slovak acronym CREPČ)

- Established in 2007 as a systematic solution for MinEdu (The Ministry of Education, Science, Research and Sport of the Slovak Republic)
- SCSTI – operator and administrator of the system
- Evidence of publication activity from all universities in Slovakia
- Statistics for MinEdu - state budget for universities
Central Registry of Publication Activity (Slovak acronym CREPČ)

• Bibliographic database (including data harvesting from universities)

• Evaluation process:
  • evidence – universities
  • formal control – SCSTI dep.
  • content control – MinEdu commission

• System as a source of:
  • Statistics for MinEdu
  • Bibliometrics & Scientometrics analyses
  • Presenting point of author, affiliation, country, ...
Central Registry of Publication Activity (Slovak acronym CREPČ)

• Categories of publications:
  • Monographs, chapters
  • Articles in journals
  • Papers in proceedings
  • Patent documents, reviews, etc.

• Together 84 categories

• Criteria for publication types:
  • Scientific / Professional / Artistic, National / Foreign, Reviewed / not reviewed, etc.

• Available at cms.crepc.sk
Central Registry of Publication Activity (Slovak acronym CREPČ)

• Future steps:
  • Next development of the system
  • Possibility to work in real time (online database)
  • Possibility of citation evidence
  • Pairing data and information about publications with projects, databases, cooperating institutions, cooperating authors
  • Possible source for evaluation of Slovak science on the national level
Centralized National Corpus of Electronic Theses and Dissertations (Slovak acronym CRZP) with Plagiarism Detection System (Slovak acronym APS)

• In 2008 after a Slovak Rector's conference focused on issue of plagiarism – MinEdu decided to create national repository of theses and plagiarism detection system

• In 2009: Higher Education Act amendment - all universities (operating under Higher Education Act) must send each thesis to national repository of theses, each thesis originality must be verified

• Established in 2010: Central Repository of Theses and Dissertations, Plagiarism Detection System
Centralized National Corpus of Electronic Theses and Dissertations (Slovak acronym CRZP) with Plagiarism Detection System (Slovak acronym APS)

• Plagiarism detection and prevention

• Before state examination supervisor gets Protocol of Originality Check (must pass criteria)

• After state examination public access to thesis in Central Repository of Theses and Dissertations

• Central Repository of Theses and Dissertations is an information source about grey literature produced at Slovak universities and provides free access

• The comparison corpus consists of bachelor, diploma, rigorous, dissertation and habilitation theses and selected internet resources content
Centralized National Corpus of Electronic Theses and Dissertations (Slovak acronym CRZP) with Plagiarism Detection System (Slovak acronym APS)

- All theses at www.crzp.sk – free access
- Archived for 70 years (by the law)
- About 550,000 theses in system
- Yearly 70,000 theses added
- The comparison corpus consists of about 20 million documents from the internet and other sources
- In 2013: European Prize for Innovation in Public Administration highlights vision, excellence and innovation in the public sector (100,000 EUR for next development)
Centralized National Corpus of Electronic Theses and Dissertations (Slovak acronym CRZP) with Plagiarism Detection System (Slovak acronym APS)

• Future steps:
  • Continuous development of the Plagiarism Detection System algorithm
  • Infrastructure upgrade for:
    • more power efficiency of the system
    • shortening the calculation time
    • building a larger and better comparison corpus
  • Implementation of multilingual comparison
  • Use of the system also for other types of documents: publications, projects, seminar thesis, etc.
Thank you for your attention

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