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KHRESMOI

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Dissemination and training report for year 3

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Executive Summary

This deliverable reports, in Part I, on the dissemination and training activities in Khresmoi Year 3 (September 2012 – August 2013). In Part II, a plan for the dissemination and training activities for the remaining year is presented. The activities are grouped according to the target groups: scientific community, medical community, business community and general public.

The Khresmoi output aimed at the research community has continued to increase, demonstrating the increasing number of publishable scientific results being obtained in Khresmoi. The Khresmoi deliverables have been downloaded often from the Khresmoi website, with the deliverables related to the use cases for the general public and medical professionals (WP8) receiving particular interest. Two papers describing the Khresmoi prototypes were co-authored by all members of the Khresmoi project.

In order to present a more coherent view of the prototypes developed in Khresmoi, it was decided early in year 3 to present three main prototypes with the following names:

- **Khresmoi for Everyone:** This prototype is aimed at the general public, and has a more classic search interface.
- **Khresmoi Professional:** The prototype with the more comprehensive ezDL interface aimed at medical professionals.
- **Khresmoi Radiology:** Full 3D image search capability is included in this prototype.

Khresmoi has been active at fairs in Year 3, with highlights (and their targeted community) being:

- A booth at the CeBIT in Hannover (business community and general public)
- A booth at the European Congress on Radiology (ECR) (medical community)
- Three educational exhibits at the yearly congress of the Radiological Society of North America (RSNA) (medical community)

Live demos of the Khresmoi prototypes in front of an audience were also shown at the following major events:

- 14th World Congress on Medical and Health Informatics (MedInfo) (scientific community)
- Health 2.0 Europe (business community)

The Khresmoi website (<http://khresmoi.eu>) continues to be the central source of information to people external to the project, while the Khresmoi Wiki serves this purpose internally. The Khresmoi deliverables have been downloaded often in year 3, with 30 deliverables being downloaded over 100 times in the period from the beginning of September 2012 to the end of July 2013. Deliverable 8.3 describing Khresmoi Professional and Khresmoi for Everyone was downloaded 1004 times in this period.

A number of high impact dissemination activities are planned for year 4, particularly aimed at the business and medical communities, including:

- Booth at the BioTech Innovation Days in Paris, France in October 2013
- Booth at the ICT 2013 Event in Vilnius, Lithuania in November 2013
- Booth at the STAFAM Medical Conference for General Practitioners in Graz, Austria in November 2013

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- Demonstration at the Radiological Society of North America (RSNA) Annual Meeting in Chicago, USA in December 2013
- Booth at the European Conference on Radiology (ECR) in Vienna, Austria in March 2014
- Khresmoi Booth at the CeBIT 2014 in Hannover, Germany in March 2014

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1 Introduction

This deliverable reports, in Part I, on the dissemination and training activities in Khresmoi Year 3 (September 2012 – August 2013). In Part II, a plan for the dissemination and training activities in Year 4 is presented. The activities are grouped according to the four target groups for Khresmoi dissemination, listed along with reminders of their definitions below:

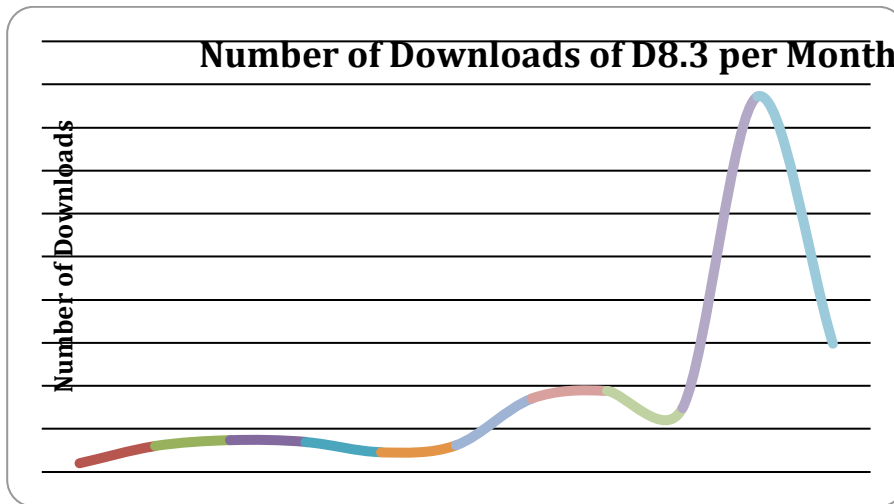
- **Scientific community:** research scientists mainly working in the scientific areas covered by the Khresmoi project;
- **Medical community:** medical practitioners, including radiologists, working in medical and health care;
- **Business community:** companies of all sizes working mainly in the IT and medical IT domains;
- **General public:** all end users of search engines, particularly medical and health search engines.

If a publication or activity is aimed at more than one target group, it is placed in the section corresponding to the main target group. Additional sections on the online presence and training activities are included.

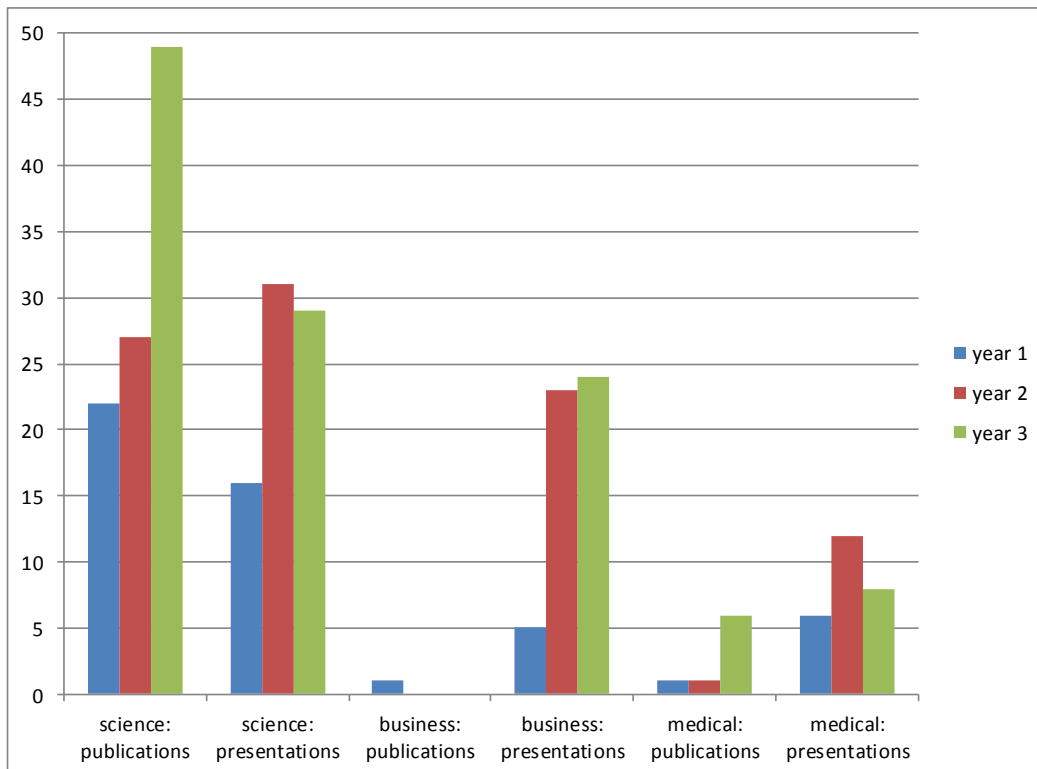
In order to present a more coherent view of the prototypes developed in Khresmoi, it was decided early in year 3 to present three main prototypes with the following names:

- **Khresmoi for Everyone:** This prototype is aimed at the general public, and has a more classic search interface.
- **Khresmoi Professional:** The prototype with the more comprehensive ezDL interface aimed at medical professionals.
- **Khresmoi Radiology:** Full 3D image search capability is included in this prototype.

A major dissemination event in Khresmoi year 3 was the release of the Khresmoi Professional prototype for access by the public. This was announced by a news item on the Khresmoi website on the 12th of June 2013, with a link from the news item to a detailed description of the prototype in D8.3. The interest in the prototype can be seen in the high number of downloads of D8.3 in June 2013, shown in the following graph:



The following graph shows a comparison between Years 1, 2 and 3 of the project in terms of the number of publications and presentations aimed at the scientific, business and medical communities:



Year 3 has seen a significant increase in the publications aimed at the scientific community, demonstrating the increasing number of publishable scientific results being obtained in Khresmoi. Year 3 has also shown an increase in the number of publications aimed at the medical community. The number of presentations aimed at the scientific and business communities has remained constant compared to Year 2, with the number of presentations aimed at the medical community decreasing slightly (but compensated for by increased exhibition activity at fairs). Of the 49 papers published aimed at the scientific community, 13 (24%) were authored by a group containing more than one Khresmoi partner, with the ratio remaining constant compared to Year 2. Two papers describing the Khresmoi prototypes were co-authored by all members of the Khresmoi project.

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Khresmoi has been active at fairs in Year 3, with highlights (and their targeted community) being:

- A booth at the CeBIT in Hannover (business community and general public)
- A booth at the European Congress on Radiology (ECR) (medical community)
- Three educational exhibits at the yearly congress of the Radiological Society of North America (RSNA) (medical community)

Live demos of the Khresmoi prototypes in front of an audience were also shown at the following major events:

- 14th World Congress on Medical and Health Informatics (MedInfo) (scientific community)
- Health 2.0 Europe (business community)

I. Dissemination in Year 3

2 Online Presence

The Khresmoi website (<http://khresmoi.eu>) continues to be the central source of information to people external to the project, while the Khresmoi Wiki serves this purpose internally.

Khresmoi publications continue to be placed on the Bibsonomy citation management website (<http://www.bibsonomy.org/>) with the tag *khresmoi-project*. The Khresmoi website publications page generates the list of publications at display time by querying Bibsonomy with this tag (<http://khresmoi.eu/resources/publications/>).

We present here the Khresmoi website access statistics for the period from the 1st of August 2012 to the 31st of July 2013, obtained from Google Analytics.

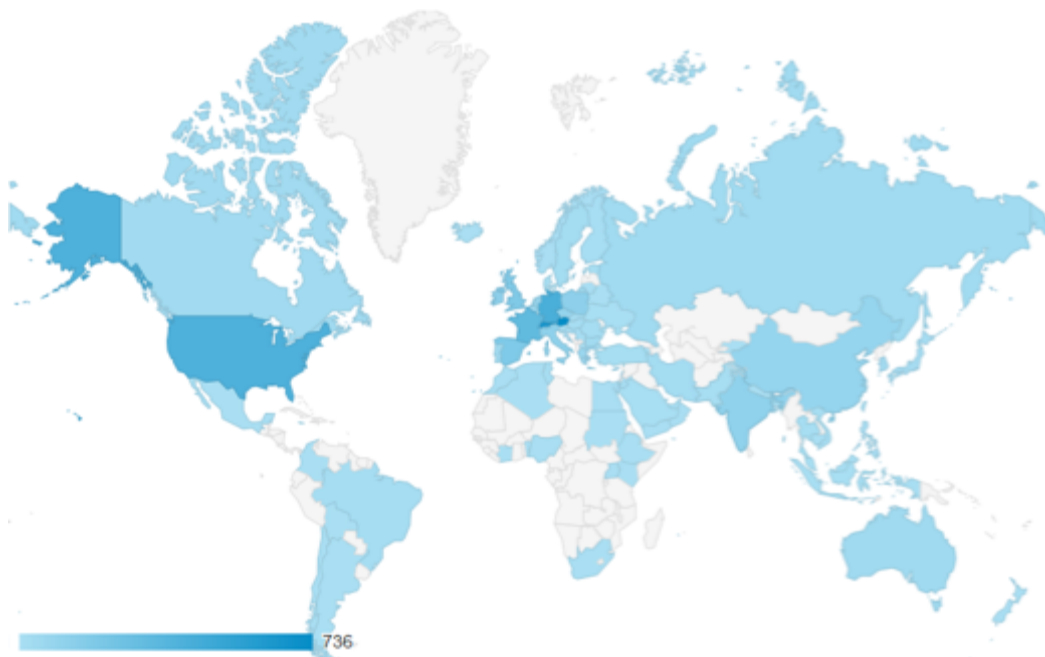
The following plot shows the number of visits per week over this time period:



In total, 2662 unique visitors visited the site 4519 times. 56.3% of the visitors were visiting the site for the first time, while 43.7% were returning visitors.

The improved site design described in Deliverable 11.3.2 (Dissemination Report for Year 2) increased the number of pages viewed per visit from 3.24 in year 2 to 3.36 in year 3. The percentage of visitors who only viewed a single page was reduced from 56% in year 2 to 52% in year 3.

The following map shows the sources of the visits:



Visits came from 90 countries/territories with the highest number continuing to be from Switzerland and Austria, followed by Germany and the USA.

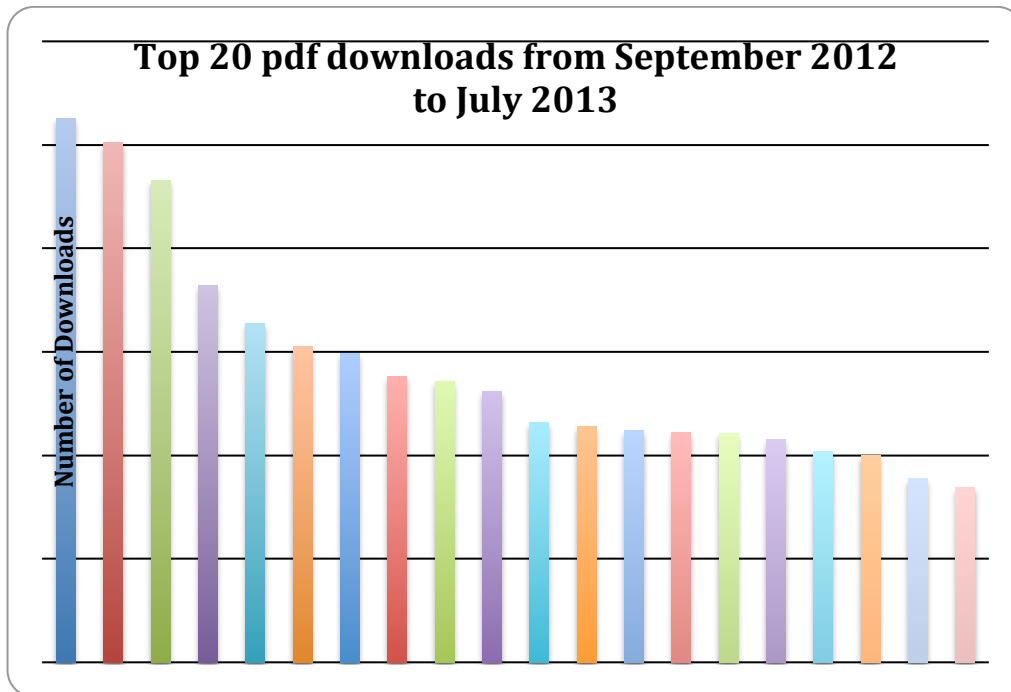
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The number of visits for pages that had over 100 visits are shown below.

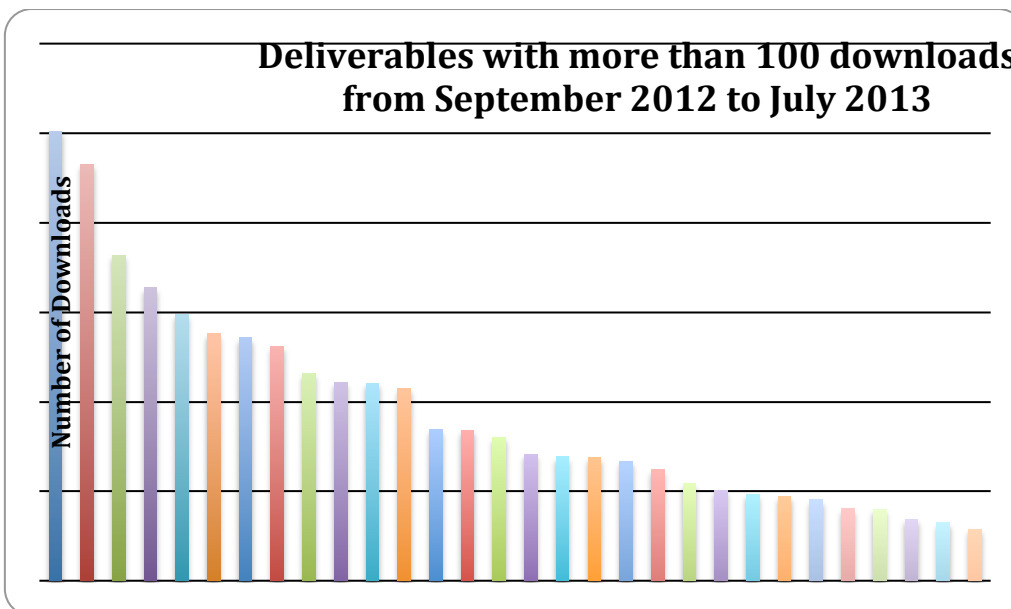
Page	Pageviews	
	15,187	
	% of Total: 100.00% (15,187)	
1. /	4,381	
2. /resources/	991	
3. /overview/	902	
4. /consortium/	746	
5. /use-cases/	692	
6. /resources/publications/	563	
7. /media-center/	490	
8. /MedSearch/faces/Search.jsp	380	
9. /contact-us/	346	
10. /resources/deliverables/	332	
11. /overview/khresmoi-for-scientists/	327	
12. /overview/khresmoi-for-medical-professionals/	309	
13. /MedSearch/faces/ImageSearch.jsp	281	
14. /resources/software/	272	
15. /overview/khresmoi-for-everybody/	228	
16. /overview/khresmoi-for-industry/	197	
17. /news/medsearch-demo-available/	176	
18. /resources/presentations/	129	
19. /resources/kick-off-meeting-documentation/	110	
20. /news/anatomy-search-prototype-video/	109	
21. /gallery	108	

The entry page received the most visits, as is to be expected. The pages introduced in year 2 aimed at scientists, medical professionals, industry and everybody attracted a good number of visitors. In year 2, the *resources* page had the second highest number of visits, but this page is absent from the list this year. This indicates that the new targeted pages have replaced the *resources* page as main source of detailed information. The presence of sub-pages of the *resources* page (publications, deliverables, presentations, software) indicates that the new targeted pages are guiding visitors well to these pages. The most visits are from people who place themselves in the medical professionals and scientists groups, while fewer people visit the industry and public pages. Pages to do with demos are well visited.

Many pdf documents are available on the Khresmoi website, including all public deliverables. The following plot shows the total number of downloads in the period from the beginning of September 2012 to the end of July 2013 for the 20 pdf documents with the highest total number of downloads:

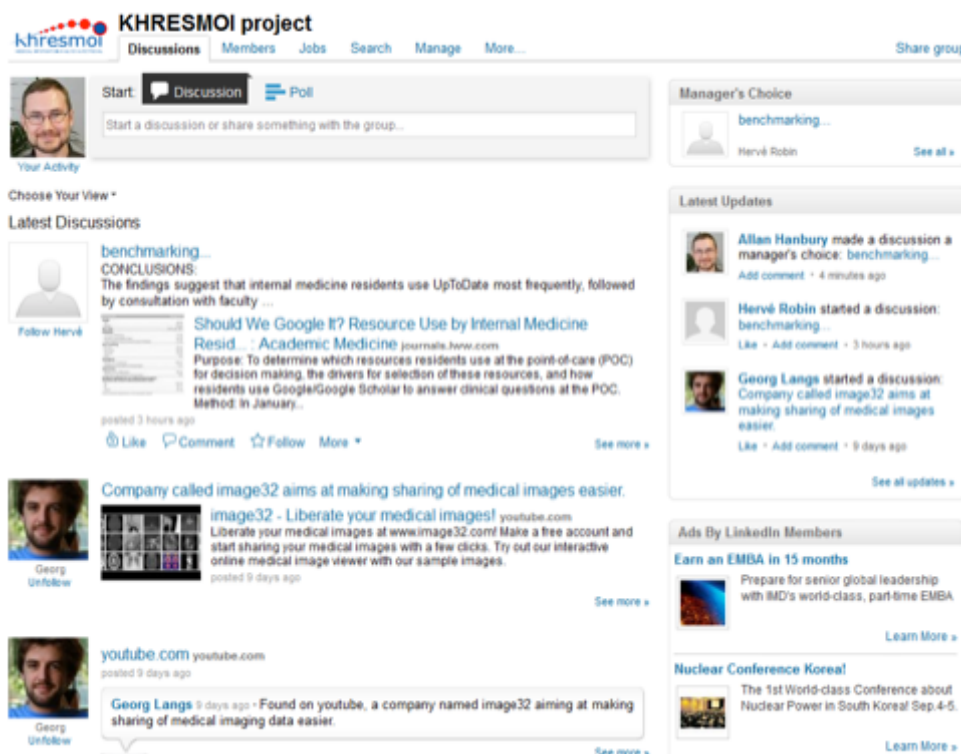


The deliverable with the highest total number of downloads in project year 3 is D8.3, ranked at position 2 by total number of downloads in the timeframe given above. The next plot shows the total number of downloads for the deliverables that have been downloaded more than 100 times from the beginning of September 2012 to the end of July 2013. Deliverables related to health search by the general public and physicians (WP8) have received a particularly high number of downloads.



The Khresmoi web page continues to be well ranked by Google. On google.com it continues to be ranked first for the query “medical information analysis”.

The LinkedIn Khresmoi group continues to be active, having grown to 115 members, including many members external to the Khresmoi project. Below is a snapshot of the discussion page on the 7th of August 2013:



3 Scientific Dissemination

3.1 Publications

3.1.1 Journal articles

- Müller, Henning and Foncubierta-Rodríguez, Antonio and Depeursinge, Adrien. Sensors, Medical Images and Signal Processing: Ubiquitous Personalized Health Monitoring. In IMIA Yearbook of Medical Informatics, Year 2012.
- Müller, Henning and Hanbury, Allan and Shorbaji, Najeed Al. Methods special topic section, Health information search to deal with the exploding amount of health information produced. Methods of Information in Medicine. (51) 6: 516-518, Year 2012.
- Markonis, Dimitris and Holzer, Markus and Dungs, Sebastian and Vargas, Alejandro and Langs, Georg and Kriewel, Sascha and Müller, Henning. A survey on visual information search behavior and requirements of radiologists. In Methods of information in Medicine, Year 2012.
- Gurulingappa, H. and Rajput, A. M. and Roberts, A. and Fluck, J. and Hofmann-Apitius, M. and Toldo, L. Development of a Benchmark Corpus to Support the Automatic Extraction of Drug-related Adverse Effects from Medical Case Reports. Journal of Biomedical Informatics 45(5):885-92, Year 2012.
- Depeursinge, Adrien and Müller, Henning and Foncubierta-Rodríguez, Antonio. Medical sensor, signal and image processing. Yearbook of Medical Informatics. Year 2012.
- Agosti, Maristella and Catarci, Tiziana and Ferro, Nicola and Müller, Henning and Santucci, Giuseppe. PROMISE Winter School 2012: Information Retrieval meets Information Visualization. In SIGIR Forum, (46) 1: 65-70, Year 2012.

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- Kritz, Marlene and Gschwandtner, Manfred and Stefanov, Veronika and Hanbury, Allan and Samwald, Matthias. Utilization and Perceived Problems of Online Medical Resources and Search Tools among Different Groups of European Physicians. In *Journal of Medical Internet Research*, (15) 6: e122, Year 2013.
- Foncubierta-Rodríguez, Antonio and Müller, Henning and Depeursinge, Adrien. Retrieval of high-dimensional visual data: current state, trends and challenges ahead. In *Multimedia Tools and Applications*, Year 2013.
- Cunningham, Hamish and Tablan, Valentin and Roberts, Angus and Bontcheva, Kalina. Getting More Out of Biomedical Documents with GATE's Full Lifecycle Open Source Text Analytics. In *PLOS Computational Biology*, Year 2013.

3.1.2 Conference and workshop articles

- Donner, René and Bischof, Horst. One-shot learning of anatomical structure localization models. *Biomedical Imaging (ISBI), 2013 IEEE 10th International Symposium on*. 222-225, Year 2013.
- Samwald, Matthias and Kritz, Marlene and Gschwandtner, Manfred and Stefanov, Veronika and Hanbury, Allan. Physicians searching the web for medical question answering: A European survey and local user studies. *Proceedings of MedInfo 2013*. IOS Press, Year 2013.
- Schwartz, Ernst and Holfeld, Johannes and Czerny, Martin and Loewe, Christian and Langs, Georg. Towards Predicting the Effects of Stent-Grafting on the Motion of the Thoracic Aorta. *Proc. of MICCAI-STENT'12*. Year 2012.
- Piesch, Tim-Christian and Müller, Henning and Kuhl, Christiane and Deserno, Thomas Martin. IRMA Code II - A New Concept for Classification of Medical Images. *Bildverarbeitung für die Medizin*. editor(s) Tolxdorff, Thomas and Deserno, Thomas Martin and Handels, Heinz and Meinzer, Hans-Peter. *Informatik Aktuell*, 440-445, Springer, Year 2012.
- Pecina, Pavel and Toral, Antonio and van Genabith, Josef. Simple and Effective Parameter Tuning for Domain Adaptation of Statistical Machine Translation. *Proceedings of the 24th International Conference on Computational Linguistics*. 2209--2224, *Coling 2012 Organizing Committee*, Mumbai, India, Year 2012.
- Markonis, Dimitrios and Schaer, Roger and Egel, Ivan and Müller, Henning and Depeursinge, Adrien. Using MapReduce for Large-scale Medical Image Analysis. *2nd IEEE Conference on Healthcare Informatics, Imaging and Systems Biology (HISB)*. La Jolla, California, Year 2012.
- Leveling, Johannes and Goeriot, Lorraine and Kelly, Liadh and Jones, Gareth J.F. DCU@TREC Med 2012: Using ad-hoc baselines for domain-specific retrieval. *Medical Records Track, Text Retrieval Conference (TREC) 2012*. 1--9, Year 2012.
- Khosh Niat, Melikka and Fuhr, Norbert. Are Ontologies Helpful in Medical Search? *Lernen, Wissen, Adaption (LWA) 2012, Workshop Information Retrieval*. Year 2012.
- Kelly, Liadh and Goeriot, Lorraine and Jones, Gareth J. F. and Hanbury, Allan. Considering Subjects and Scenarios in Large-Scale User-Centered Evaluation of a Multilingual Multimodal Medical Search System. *CLEF (Online Working Notes/Labs/Workshop)*. editor(s) Forner, Pamela and Karlgren, Jussi and Womser-Hacker, Christa. Year 2012.

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- Ison, Mark and Donner, Rene and Dittrich, Eva and Kasprian, Gregor and Prayer, Daniela and Langs, Georg. Fully Automated Brain Extraction and Orientation in Raw Fetal MRI. Proc. of MICCAI Workshop on Paediatric and Perinatal Imaging. Year 2012.
- Ignalski, Jessica and Jordan, Matthias and Kriewel, Sascha. Evaluierung von Darstellungsvarianten für Anfragevorschläge bei der Informationssuche. Lernen, Wissen, Adaption (LWA) 2012, Workshop Information Retrieval. Year 2012.
- Hanbury, Allan and Müller, Henning. Enterprise Search in Medical Data. Workshop on Search Computing. Year 2012.
- Hanbury, Allan and Müller, Henning and Langs, Georg and Weber, Marc André and Menze, Bjoern H. and Fernandez, Tomas Salas. Bringing the algorithms to the data: cloud-based benchmarking for medical image analysis. CLEF conference. Year 2012.
- Franitza, Markus and Kriewel, Sascha and Dungs, Sebastian. Entwicklung und Evaluierung einer Rich Internet Application für die Suche nach medizinischen Informationen. Lernen, Wissen, Adaption (LWA) 2012, Workshop Information Retrieval. Year 2012.
- Foncubierta-Rodríguez, Antonio and Vargas, Alejandro and Platon, Alexandra and Poletti, Pierre-Alexandre and Müller, Henning and Depeursinge, Adrien. Retrieval of 4D Dual Energy CT for Pulmonary Embolism Diagnosis. Medical Content-based Retrieval for Clinical Decision Support. MCBR-CDS 2012, Year 2012.
- Foncubierta-Rodríguez, Antonio and Müller, Henning. Ground truth generation in medical imaging: A crowdsourcing based iterative approach. Workshop on Crowdsourcing for Multimedia, ACM Multimedia. Year 2012.
- Donner, René and Menze, Bjoern and Bischof, Horst and Langs, Georg. Fast Anatomical Structure Localization Using Top-down Image Patch Regression. Proc. Medical Computer Vision 2012. Year 2012.
- Donner, René and Haas, Sebastian and Burner, Andreas and Holzer, Markus and Bischof, Horst and Langs, Georg. Evaluation of fast 2D and 3D medical image retrieval approaches based on image miniatures. Proc. Medical Content-Based Retrieval for Clinical Decision Support. 128-138, Springer, Year 2012.
- Depeursinge, Adrien and Foncubierta-Rodríguez, Antonio and Ville, Dimitri Van De and Müller, Henning. Multiscale Lung Texture Signature Learning Using the Riesz Transform. MICCAI (3). editor(s) Ayache, Nicholas and Delingette, Hervé and Golland, Polina and Mori, Kensaku. Lecture Notes in Computer Science, (7512) 517-524, Springer, Year 2012.
- de Herrera, Alba Garcia Seco and Markonis, Dimitrios and Eggel, Ivan and Müller, Henning. The medGIFT Group in ImageCLEFmed 2012. CLEF (Online Working Notes/Labs/Workshop). editor(s) Forner, Pamela and Karlgren, Jussi and Womser-Hacker, Christa. Year 2012.
- Burner, Andreas and Donner, René and Mayerhoefer, Marius and Holzer, Markus and Kainberger, Franz and Langs, Georg. Texture bags: anomaly retrieval in medical images based on local 3d-texture similarity. Medical Content-Based Retrieval for Clinical Decision Support. 116-127, Springer, Year 2012.
- Rosa, Rudolf and Mareček, David and Tamchyna, Aleš. Deepfix: Statistical Post-editing of Statistical Machine Translation Using Deep Syntactic Analysis. Proceedings of the Student Research Workshop at the 51st Annual Meeting of the Association for Computational Linguistics. Year 2013.

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- Müller, Henning and Greenspan, Hayit. Overview of the 2012 workshop on Medical Content-Based Retrieval for Clinical Decision Support. Proceedings of the workshop MCBR-CDS 2012. Lecture Notes in Computer Science, (7723) 1-9, Year 2013.
- Müller, Henning. Medical (visual) information retrieval. Information retrieval meets information visualization, winter school book. Springer LNCS, (7757) 155-166, Year 2013.
- Müller, Henning and Foncubierta-Rodríguez, Antonio and Lin, Chang and Eggel, Ivan. Determining the importance of figures in journal articles to find representative images . SPIE Medical Imaging. Year 2013.
- Menze, Bjoern and Langs, Georg and Lu, Le and Montillo, Albert and Tu, Zhuowen and Criminisi, Antonio. Medical Computer Vision: Recognition Techniques and Applications in Medical Imaging; Second International MICCAI Workshop, MCV 2012, Nice, France, October 5, 2012, Revised Selected Papers. Springer, Year 2013.
- Kelly, Liadh and Jones, Gareth and Hanbury, Allan and Goeriot, Lorraine and Müller, Henning. Khresmoi Professional: Multilingual Semantic Search for Medical Professionals. Proceedings of the Health Search and Discovery (HSD) workshop at SIGIR 2013. Year 2013.
- Hanbury, Allan and van Zyl, Hendra and Boyer, Céilia and Barnard, Etienne. Adapting Mobile Medical Information Search to Low-Resourced Areas. Proc. IST-Africa. Year 2013.
- Hanbury, Allan and Lupu, Mihai. Toward a Model of Domain-Specific Search. Proc. Open Research Areas in Information Retrieval (OAIR) Conference. 33-36, Year 2013.
- Greenspan, Hayit and Müller, Henning and Syeda Mahmood, Tanveer (eds). Proceedings MCBR-CDS 2012. Springer Lecture Notes in Computer Science, (7723) Year 2013.
- Goeriot, Lorraine and Kelly, Liadh and Jones, Gareth J F. Test Collections for Medical Information Retrieval Evaluation. Proceedings of the Health Search and Discovery (HSD) workshop at SIGIR 2013. Year 2013.
- Goeriot, Lorraine and Kelly, Liadh and Jones, Gareth J F and Zucon, Guido and Suominen, Hanna and Hanbury, Allan and Müller, Henning and Leveling, Johannes. Creation of a New Evaluation Benchmark for Information Retrieval Targeting Patient Information Needs. Proceedings of the 5th International Workshop on Evaluating Information Access (EVIA), a Satellite Workshop of the NTCIR-10 Conference. Year 2013.
- Foncubierta-Rodríguez, Antonio and Poletti, Pierre-Alexandre and Platon, Alexandra and Vargas, Alejandro and Müller, Henning and Depeursinge, Adrien. Texture Quantification in 4D Dual Energy CT for Pulmonary Embolism Diagnosis. MICCAI workshop MCBR-CDS 2012. Springer LNCS, (7723) 45-56, Year 2013.
- Foncubierta-Rodríguez, Antonio and Müller, Henning and Depeursinge, Adrien. Region-based volumetric medical image retrieval . SPIE Medical Imaging: Advanced PACS-based Imaging Informatics and Therapeutic Applications. SPIE, Year 2013.
- Depeursinge, Adrien and Foncubierta-Rodríguez, Antonio and Vargas, Alejandro and Van De Ville, Dimitri and Platon, Alexandra and Poletti, Pierre-Alexandre and Müller, Henning. Rotation-covariant texture analysis of 4D dual-energy CT as an indicator of local pulmonary perfusion. IEEE International Symposium on Biomedical Imaging (ISBI). Year 2013.
- Chhatkuli, Ajad and Markonis, Dimitrios and Foncubierta-Rodríguez, Antonio and Meriaudeau, Fabrice and Müller, Henning. Separating compound figures in journal articles to allow for subfigure classification. SPIE, Medical Imaging. Year 2013.

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- Markonis, Dimitrios and Baroz, Frederic and Castaneda, Rafael Luis Ruiz De and Boyer, Célia and Müller, Henning, Preparing user tests for assessing a medical image retrieval system: A pilot study. Proc. MedInfo 2013. Year 2013.
- Dolamic, Ljiljana and Boyer, Célia, Key-Phrase Based Classification of Public Health Web Pages. Proc. MedInfo 2013. Year 2013.
- Niraj Aswani, Thomas Beckers, Erich Birngruber, Célia Boyer, Andreas Burner, Jakub Bystroň, Khalid Choukri, Sarah Cruchet, Hamish Cunningham, Jan Dědek, Ljiljana Dolamic, René Donner, Sebastian Dungs, Ivan Eggel, Antonio Foncubierta, Norbert Fuhr, Adam Funk, Alba Garcia Seco de Herrera, Arnaud Gaudinat, Georgi Georgiev, Julien Gobeill, Lorraine Goeuriot, Paz Gomez, Mark Greenwood, Manfred Gschwandtner, Allan Hanbury, Jan Hajič, Jaroslava Hlaváčová, Markus Holzer, Gareth Jones, Blanca Jordan, Matthias Jordan, Klemens Kaderk, Franz Kainberger, Liadh Kelly, Sascha Kriewel, Marlene Kritz, Georg Langs, Nolan Lawson, Dimitrios Markonis, Iván Martinez, Vassil Momtchev, Alexandre Masselot, Hélène Mazo, Henning Müller, Pavel Pecina, Konstantin Pentchev, Deyan Peychev, Natalia Pletneva, Diana Pottecher, Angus Roberts, Patrick Ruch, Matthias Samwald, Priscille Schneller, Veronika Stefanov, Miguel Angel Tinte, Zdeňka Urešová, Alejandro Vargas and Dina Vishnyakova, Khresmoi – multilingual semantic search of medical text and images, Proc. MedInfo 2013. Year 2013.
- Niraj Aswani, Thomas Beckers, Erich Birngruber, Célia Boyer, Andreas Burner, Jakub Bystroň, Khalid Choukri, Sarah Cruchet, Hamish Cunningham, Jan Dědek, Ljiljana Dolamic, René Donner, Ondřej Dušek, Sebastian Dungs, Ivan Eggel, Antonio Foncubierta, Norbert Fuhr, Adam Funk, Alba Garcia Seco de Herrera, Arnaud Gaudinat, Georgi Georgiev, Julien Gobeill, Lorraine Goeuriot, Paz Gomez, Mark A. Greenwood, Manfred Gschwandtner, Allan Hanbury, Jan Hajič, Jaroslava Hlaváčová, Markus Holzer, Gareth Jones, Blanca Jordan, Matthias Jordan, Klemens Kaderk, Franz Kainberger, Liadh Kelly, Sascha Kriewel, Marlene Kritz, Georg Langs, Nolan Lawson, Johannes Leveling, David Mareček, Dimitrios Markonis, Iván Martinez, Vassil Momtchev, Alexandre Masselot, Hélène Mazo, Henning Müller, Michal Novák, Johann Petrak, João Palotti, Pavel Pecina, Konstantin Pentchev, Deyan Peychev, Natalia Pletneva, Martin Popel, Diana Pottecher, Angus Roberts, Rudolf Rosa, Patrick Ruch, Alexander Sachs, Matthias Samwald, Priscille Schneller, Veronika Stefanov, Aleš Tamchyna, Miguel Angel Tinte, Zdeňka Urešová, Alejandro Vargas, Dina Vishnyakova, Khresmoi Professional: Multilingual Semantic Search for Medical Professionals, Proceedings of the Health Search and Discovery (HSD) workshop at SIGIR 2013. Year 2013.

3.1.3 Special Issue

The special topic in the journal *Methods of Information in Medicine* (edited by Henning Müller, Allan Hanbury and Najeeb Al Shorbaji) received 10 submissions, of which 5 passed the review process. It was published in December 2012.

3.2 Presentations

Khresmoi is very visible at the 14th World Congress on Medical and Health Informatics (MedInfo) held in Copenhagen, Denmark from August 20th to August 23rd 2013, with the following activities:

- Presentation (45 minutes) of the Khresmoi prototypes (TUW, HES-SO)
- Presentation on *Preparing user tests for assessing a medical image retrieval system: A pilot study* (HES-SO)
- Poster on *Key-Phrase Based Classification of Public Health Web Pages* (HON)

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- Poster on *Physicians searching the web for medical question answering: A European survey and local user studies* (TUW, GAW)

Further presentations about topics related to Khresmoi are listed below:

- 1.8.2013 Poster presentation at the ACM SIGIR Workshop on Health Search and Discovery (Lorraine Goeuriot, DCU)
- 1.8.2013 Poster presentation at the ACM SIGIR Workshop on Health Search and Discovery (Liadh Kelly, DCU)
- 16.7.2013 Invited presentation at the Institute for Medical Informatics, Biel, Switzerland (Patrick Ruch, HES-SO)
- 15.7.2013 Presentation at the WIDTH meeting, Athens, Greece (Dimitrios Markonis, HES-SO)
- 10.7.2013 Presentation at Fudan University, China (Alba Garcia, HES-SO)
- 5.7.2013 Presentation at the EMBC, Osaka, Japan (Antonio Foncubierta, HES-SO)
- 27.6.2013 Invited presentation at the VRVis Research Centre, Search in Medical Texts and Images, Vienna, Austria (Allan Hanbury, TUW)
- 18.6.2013 Presentation at the 5th International Workshop on Evaluating Information Access (EVIA), Tokyo, Japan (Gareth Jones, DCU)
- 13.6.2013 Introduction to Text Analytics, ForgetIT meeting, Edinburgh, UK (Mark Greenwood, USFD)
- 30.5.2013, Deutscher Roentgenkongress, How semantics can help in radiology, Hamburg, Germany, invited talk in a session on semantics in radiology (Henning Müller, HES-SO)
- 30.5.2013 IST-Africa Conference, *Adapting Mobile Medical Information Search to Low-Resourced Areas*, Nairobi, Kenya (Allan Hanbury, TUW)
- 22.5.2013 Conference on Open Areas in Information Retrieval (OAIR), *Toward a Model of Domain-Specific Search*, Lisbon, Portugal (Allan Hanbury, TUW)
- 11.5.2013 invited talk at 3D object retrieval workshop at Eurographics, 3D medical retrieval, Girona, Spain (Henning Müller, HES-SO)
- 10.4.2013 presentation at ISBI 2013, San Francisco, USA (Adrien Depeursinge, HES-SO)
- 8.4.2013 presentation at ISBI 2013, San Francisco USA (René Donner, MUW)
- 20.03.2013 Meeting with University of Manchester Medical Informatics, Sheffield, UK (Angus Roberts, USFD)
- 14.12.2012 The 24th International Conference on Computational Linguistics (Coling 2012). Simple and Effective Parameter Tuning for Domain Adaptation of Statistical Machine Translation. Mumbai, India. (Pavel Pecina, CUNI)
- 29.10.2012 presentation at the Crowdsourcing workshop at ACM Multimedia on medical ground truth generation, Nara, Japan (Antonio Foncubierta, HES-SO)
- 5.10.2012 Presentation at MICCAI workshop on computer vision in medicine, Nice, France, (Georg Langs, MUW)
- 1.10.2012 Presentation at MICCAI workshop on Computer Assisted Stenting, Nice, France (Ernst Schwartz, MUW)

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- 1.10.2012 Presentation at MICCAI workshop on medical content-based retrieval for clinical decision support, Nice, France (Henning Müller, HES-SO)
- 28.9.2012 Presentation at HISB on using Hadoop/MapReduce for medical imaging (Roger Schaer, HES-SO)
- 18.9.2012 Presentation at the CLEF Conference (Henning Müller, HES-SO)
- 18.9.2012 Poster at the CLEF eHealth workshop (Gareth Jones, DCU)
- 7.9.2012 Presentation on Intelligent information access techniques for on-line health information search: A survey of non-physicians, International conference on communication in healthcare 2012, Saint Andrews, the UK (Natalia Pletneva, HON)

3.3 Workshops

- 7.12.2013 NIPS workshop on Machine Learning and Interpretation in Neuroimaging, Lake Tahoe, USA (Georg Langs, MUW)
- 17–20.9.2012 ImageCLEF workshop, Rome, Italy (HES-SO)
- 1.10.2012 MCBR-CDS 2012: Medical Content-based Retrieval for Clinical Decision Support, with the MICCAI 2012 (HES-SO)
- 5.10.2012 Medical Computer Vision 2012, with the MICCAI 2012 (MUW)

4 Dissemination to the Business Community

4.1 Presentations

- 21-22.8.2013 Participation in the Digital Health Days and B2B meetings for dissemination, Stockholm, Sweden (Alexandre Cotting, HES-SO)
- 11.7.2013 Invited presentation at the Innovative Medicine Initiative event, organized by the Inbiomedvision support action, Brussels, Belgium (Patrick Ruch, Arnaud Gaudinat and Mathilde Panes, HES-SO)
- 12.6.2013 Presentation of Khresmoi at a company workshop organised by the Technology Transfer Centre of the Vienna University of Technology (Matthias Samwald, Veronika Stefanov, Allan Hanbury, TUW)
- 6.5.2013 Presentation of Khresmoi to the company BiConcepts (Matthias Samwald, Allan Hanbury, TUW)
- 26.04.2013 Presentation to The Lighthouse Group, Amsterdam, Netherlands (Angus Roberts, USFD)
- 23.04.2013 Presentation to ACS primary care software supplier, London, UK (Angus Roberts, USFD)
- 5.4.2013 Presentation of Khresmoi to a financial and legal expert to get feedback on the viability of a spin-off company – meeting set up by the Vienna Technology Agency (Georg Langs, Allan Hanbury, Henning Müller)
- 8.3.2013 Presentation of Khresmoi to a representative of the company Infermedica (meeting organised in the framework of CeBIT, Allan Hanbury, TUW)

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- 8.3.2013 Presentation of Khresmoi to a representative of the company Precognox (meeting organised in the framework of CeBIT, Allan Hanbury, TUW)
- 8.3.2013 Presentation of Khresmoi to a representative of the company Intratel (meeting organised in the framework of CeBIT, Allan Hanbury, TUW)
- 7.3.2013 Presentation of Khresmoi to a representative of the company Rosario Software (meeting organised in the framework of CeBIT, Allan Hanbury, TUW)
- 5.3.2013 Presentation of Khresmoi to a representative of the company TEMIS (meeting organised in the framework of CeBIT, Allan Hanbury, TUW)
- 5.3.2013 Presentation of Khresmoi to a representative of the company Synthema (meeting organised in the framework of CeBIT, Allan Hanbury, TUW)
- 26.2.2013 Presentation to MEDTING, Madrid, Spain (Blanca Jordán, ATOS)
- 07.2.2013 Talk at SONMED CT workshop, Birmingham, UK (Angus Roberts, USFD)
- 12.12.2012 Talk at DEFRA for Food and Environment research Agency, London, UK (Angus Roberts, Valentin Tablan USFD)
- 29.11.2012 Local eHealth day between companies and academia including a presentation of Khresmoi, Sierre, Switzerland (Henning Müller, HES-SO)
- 22.11.2012 Presentation to Merck, Manchester, UK (Angus Roberts, USFD)
- 20.11.2012 Presentation during teleconference with UK Connecting for Health, Sheffield, UK (Angus Roberts, USFD)
- 6.11.2012 Presentation at Health 2.0 Europe (Allan Hanbury, TUW)
- 21.10.2012 Presentation during teleconference with Quintiles pharmaceutical company, Sheffield, UK (Angus Roberts, USFD)
- 27.9.2012 Presentation to EMIS primary care software supplier, Sheffield, UK (Angus Roberts, USFD)
- 25.9.2012 CHORUS+ Workshop on Search Computing, Brussels, Belgium, presentation on Enterprise Search in Medical Data (Allan Hanbury, TUW)
- 15.9.2012 Presentation on Intelligent Information Access Techniques for on-line Health Information Search: a Survey of Non-Physicians, Medicine 2.0`2012 conference, Boston, the USA (Iris van der Heijden, HON)

4.2 Symposia and Fairs

Khresmoi was present at the booth *EU Language & Big Data Projects* at the CeBIT from the 5th to the 9th of March 2013 in Hannover, Germany (HES-SO, MUW, TUW, HON, ELDA). Other EU projects present at the booth were PROMISE, X-LIKE and RENDER. The Khresmoi prototypes were demonstrated to many visitors. This also gave us the opportunity to exchange information and results with other research projects, in particular German national projects. This event also premiered the Khresmoi golf shirts and Khresmoi pens.



5 Dissemination to the Medical Community

5.1 Publications

- Valentinitich, Alexander and Patsch, Janina M and Deutschmann, Julia and Schueller-Weidekamm, Claudia and Resch, Heinrich and Kainberger, Franz and Langs, Georg. Automated threshold-independent cortex segmentation by 3D-texture analysis of HR-pQCT scans. In Bone, (51) 3: 480-7, Year 2012.
- Langs, Georg and Donner, René and Burner, Andreas and Holzer, Markus and Birngruber, Erich and Markonis, Dimitrios and Müller, Henning. Fast Content-based Visual Retrieval of Radiology Cases in Hospital Systems. RSNA. Year 2012.
- Valentinitich, Alexander and Patsch, Janina M and Burghardt, Andrew J and Link, Thomas M and Majumdar, Sharmila and Fischer, Lukas and Schueller-Weidekamm, Claudia and Resch, Heinrich and Kainberger, Franz and Langs, Georg. Computational identification and quantification of trabecular microarchitecture classes by 3-D texture analysis-based clustering. Bone 54(1), 133-140, Elsevier, Year 2013.
- Müller, Henning. Semantik und Bilddaten: wie Terminologien in der Radiologie helfen könnten. Deutscher Roentgenkongress. Year 2013.
- Langs, Georg and Donner, René and Holzer, Markus and Markonis, Dimitrios and Müller, Henning and Birngruber, Erich. Fast search for radiology cases in hospital systems via content-based image retrieval . European Congress of Radiology. Year 2013.
- Kotter, Elma and Müller, Henning. Semantics in radiology. ECR. Year 2013.

5.2 Presentations

- 1.7.2013–5.7.2013 Khresmoi was featured in Presentations and demos at the Institute of Psychiatry training event, London, UK (Angus Roberts, Mark Greenwood, USFD)
- 15.5.2013 Presentation at Public Health England meeting (Angus Roberts, Valentin Tablan USFD)
- 11.3.2013 Presentation at the ECR EIBIR IMAGINE workshop on Novel Technology that Shapes Radiology on efficient visual image search in clinical radiology (René Donner, MUW)
- 7.3.2013 Oral and poster presentation at ECR on computational texture analysis in interstitial lung disease: comparison of descriptors and classification accuracy (Joachim Ofner, MUW)
- 7.3.2013 Presentation at ECR on fast search for radiology cases in hospital systems via content-based image retrieval (René Donner, MUW)
- 15.01.2013 Talk at Institute of Psychiatry, London (Angus Roberts, USFD)
- 6.12.2012 RSNA 98th Scientific Assembly and Annual Meeting. Fast Content-based Visual Retrieval of Radiology Cases in Hospital Systems (Georg Langs, MUW)
- 6.12.2012 RSNA 98th Scientific Assembly and Annual Meeting. Fast and Accurate Automatic Localization of Anatomical Structures in Multi-Model Data using Pre-filtered Hough Forests and Discrete Optimization (René Donner, MUW)

5.3 Presence of Khresmoi at Symposia

Khresmoi results were presented by MUW at a booth at the IMAGINE exhibit of the European Congress on Radiology (ECR), the largest radiology congress in Europe that gathered over 20,000 participants from 102 countries, from March 7th to March 11th 2013. KHRESMOI participated in the IMAGINE exhibit, with a booth and a prototype demo during the entire congress duration. An article on Khresmoi was also published in the *ECR Today* congress magazine. The IMAGINE exhibit is significant, since it not only aims at presenting applicable technology to radiologists, but also to communicate work in progress among the medical image analysis community. Both aspects are very valuable for Khresmoi. We could reflect on the applicability of the prototype with radiologists, while at the same time discussing methodological details among peers in the computer science field.

Khresmoi partner MUW was present at the yearly congress of the Radiological Society of North America (RSNA), from November 25th to November 30th 2012. This congress is the primary forum for radiologists and connected health care professionals, with about 55,000 participants. Khresmoi had 3 educational exhibits that demonstrated Khresmoi prototypes, explained the underlying technology, and high-lighted the prime challenges in the context of content based information retrieval in the clinic. Over 5 days we presented results, and offered participants to try the prototype aimed at radiologists. In addition to the exhibit, the RSNA presented the opportunity to discuss the potential impact of retrieval in the context of advancing clinical data management and ever growing data repositories.



5.4 Other

The Association of Physicians in Vienna (GAW) has continued its awareness campaign among its members, including weekly distribution of Khresmoi Folders during medical seminars and conferences held at the Society. News about the Khresmoi publication in the Journal of Medical Internet Research was included in the GAW newsletter on the 28th of June 2013.

6 Dissemination to the Public

Heath On the Net has continued to be in contact with various patient organisations, especially with the aim of recruiting people to take part in the user-centred evaluations of the Khresmoi system. In particular, Khresmoi has been presented to and discussed with the following organisations: the Diabetes Education Study Group (<http://www.desg.org/>), La Ligue Contre le Cancer in France (<http://www.ligue-cancer.net/>) and the Swiss Patient Organisation (l'Organisation Suisse de Patients, <http://www.spo.ch/>). Khresmoi was also presented to patients at the Hôpital Georges Pompidou in Paris, France during the end user tests in July 2013.

The Khresmoi prototype was shown on television on Canal9Valais in Switzerland on the 17th of April 2013 (<http://www.youtube.com/watch?v=EgXJn1yz5kU>).

Printed folders in English, French, German and Spanish with general Khresmoi information were updated to a 2013 version reflecting the progress within Khresmoi, and distributed at many events (for all dissemination target groups).

The fourth Khresmoi newsletter was released online in October 2012 (<http://www.khresmoi.eu/assets/Newsletter/newsletter4-khresmoi.pdf>).

7 Training

7.1 Summer Schools

Khresmoi sponsored the Summer School on Image Processing (SSIP) 2013, held from the 4th to the 13th of July at the University of Pannonia in Veszprém, Hungary. René Donner (MUW) and Allan Hanbury (TUW) held lectures at this summer school.

Georg Langs (MUW) gave an invited presentation at the Biomedical Image Analysis Summer School: Modalities, Methodologies & Clinical Research at the Ecole Centrale de Paris, Paris, France.

Sascha Kriewel (UDE) gave a presentation on Khresmoi at the EU Summer School on Information Foraging 2013 in Nijmegen, the Netherlands.

Kalina Bontcheva (USFD) gave a presentation on Semantic Search at the PROMISE Winter School 2013 in Bressanone, Italy.

Khresmoi was featured in presentations at the GATE Summer School held in Sheffield, UK from 3–7 June 2013 (Angus Roberts, USFD)

7.2 Inclusion of Khresmoi Material in Lectures

- June 2013 - Part of lecture on “Medical Image Processing”, Vienna University of Technology (Georg Langs)
- June 2013 - Part of the lecture on “Internet Search Engines” (chapter on evaluation), University of Duisburg-Essen (Norbert Fuhr)
- May 2013 - Part of lecture on “Information Engineering”, University of Duisburg-Essen (Norbert Fuhr)
- March-June 2013 - Part of seminar series “Computer Vision”, Medical University of Vienna (Georg Langs)
- December 2012 - Part of lecture on “Internet Search Engines” (chapter on evaluation), University of Duisburg-Essen (Norbert Fuhr)
- October 2012 - February 2013 - Student Project “Interactive help for a search system”, University of Duisburg-Essen (Matthias Jordan, Thomas Beckers)

II. Plan for Dissemination for the Remaining Year

This section presents the dissemination plan for the remaining year of the project.

8 Online Presence

The new website design has shown to be useful through the many clicks received by the new targeted summary pages, so this design will be retained. The information in the summary pages will be updated regularly, as will the news.

9 Planned Scientific Dissemination

This section lists the journals and conferences that Khresmoi will aim to publish in, as well as the potential sponsorship of scientific conferences.

9.1 Publications

9.1.1 Journals

Below is a list of journals in which we will aim to publish in the remaining year of the project:

- Methods of Information in Medicine
- Springer Journal Language Resource and Evaluation Journal
- Computerized Medical Imaging and Graphics
- IEEE Transactions on Information Technology in Biomedicine
- IEEE Transactions on Medical Imaging
- International Journal of Medical Informatics
- Journal of the America Medical informatics association
- International Journal of Computer Vision
- Medical Image Analysis
- IEEE Transactions on Pattern Analysis and Machine Intelligence
- Pattern Recognition - Elsevier
- Pattern Recognition Letters
- Computer Vision and Image Understanding
- Image and Vision Computing
- Natural Language Engineering
- Computer Speech and Language
- Journal of Language Resources and Evaluation
- Machine Translation
- Computational Linguistics
- Research on Language and Computation
- Linguistic Issues in Language Technology (LiLT)
- Computational Linguistics
- Computer Speech and Language
- Journal of Information Retrieval
- Information Processing and Management

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- ACM Transactions in Information Systems

9.1.2 Potential special issues

Organising special issues in the journals listed in Section 9.1.1 will be considered where appropriate.

9.1.3 Other

Articles will be contributed to ERCIM News. We will also aim to get an article about Khresmoi into New Scientist.

9.2 Conferences

The following scientific conferences are targeted in Khresmoi (this list is on the Khresmoi wiki and is updated regularly):

Name	Next Event	Recurrence	URL
SPIE Medical Imaging	15-20 Feb 2014	annual	http://spie.org/medical-imaging.xml
WWW	7-11 Apr 2014	annual	http://www2014.wwwconference.org/
ECIR	13-17 Apr 2014	annual	http://ecir2014.org/
EHealth Vienna	tba for 2014	annual	http://www.ehealth20xx.at/eHealth2013/
EAMT	tba for 2014	annual	http://www.eamt.org/
ACL	22-27 Jun 2014	annual	http://www.aclweb.org/
CVPR	24-27 Jun 2014	annual	http://www.pamitc.org/cvpr14/
CoNLL	tba for 2014	annual	
ISMB	tba for 2014	annual	http://www.iscb.org/about-ismb/
SIGIR	6-11 Jul 2014	annual	http://sigir.org/sigir2014/
MIE	31 Aug – 3 Sep 2014	annual	http://www.mie2014.org/
CLEF	23-26 Sep 2013	annual	http://www.clef2013.org/
MICCAI	22-26 Sep 2013	annual	http://www.miccai2013.org/

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AMIA Symposium	16-20 Nov 2013	annual	http://www.amia.org/amia2013
CIKM	27 Oct – 1 Nov 2013	annual	http://www.cikm2013.org/
ICCV	8-15 Dec 2013	biennial	http://www.iccv2013.org/
IJCNLP	15-18 Oct 2013	biennial	http://www.cs.rochester.edu/~tetreaul/conferences.html
NIPS	5-10 Dec 2013	annual	http://nips.cc/Conferences/2013/
MT Summit	2-6 Sep 2013	biennial	http://www.mtsummit2013.info
LREC	26-31 May 2014	biennial	http://www.lrec-conf.org/
EMNLP	18-21 Oct 2013	annual	http://hum.csse.unimelb.edu.au/emnlp2013/
Medicine 2.0	23-24 Sep 2013	annual	http://www.medicine20congress.com/

9.3 Workshops

The conferences listed in Section 9.2 are also targets for workshop proposals.

9.4 Sponsorship of Scientific Conferences

Sponsorship of the following scientific conferences will be discussed in the Management Committee and decisions made. The best point in the project lifetime to carry out these sponsorships will also be discussed:

- Medical Informatics Europe
- CLEF Conference
- SIGIR
- CIKM
- MICCAI

10 Planned Dissemination to the Business Community

10.1 Publications

We will aim to have articles in the following channels aimed at the business community:

- VITE – IT business network (Austria)
- El Economista (Spain)
- Computerworld (US)
- Computing (UK)

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- Tech Week (US)
- Data. Ti (Spain)
- Krankenhaus IT (Germany)
- IDG.es (Spain)
- tuexpertoit.com (Spain)
- is-portal.com (Spain)
- Itespresso.es (Spain)
- ciberp@ís (Spain)
- Le Monde Sections on High-Tech (France)

10.2 Presentations

The following conferences aimed at the business community are targeted in Khresmoi:

Name	Next event	2012/2013/2014 recurring Date	URL
Health 2.0 Europe	17-19 Nov, 2013	annual	http://www.health2con.com/events/conferences/europe-fall-2013/
Pharmaceutical Technology and IT congress	23-24 Sep 2013	annual	http://www.pharmatechnology-summit.com/
C-SHALS	26-28 Feb 2014	annual	http://www.iscb.org/cshals2014
Med-e-Tel	9-11 Apr 2014	annual	http://www.medetel.eu
World of Health IT	3-4 Apr 2014	annual	http://worldofhealthit.org/2014/
SemTechBiz conferences	See link	annual	http://semanticweb.com/
Open World Forum	3-5 Oct 2013	annual	http://www.openworldforum.org/

10.3 Presence of Khresmoi at Conferences, Symposia and Trade Fairs

Khresmoi will have a booth at the BioTech Information Days on 7-8 October 2013 in Paris, France (<http://www.lifescience-outlook.com/innovationdays>)

Khresmoi has a booth at the ICT 2013 event from 6–8 November 2013 in Vilnius, Lithuania.

Khresmoi plans to exhibit at the CeBIT in Hannover, Germany. A full Khresmoi stand is planned at the CeBIT for year 4.

11 Planned Dissemination to the Medical Community

11.1 Publications

We will aim to have articles in the following channels aimed at the medical community:

- Le Quotidien du Médecin (France)
- Medizin&Technik (Germany)
- Ärzte Zeitung (Germany)
- Österreichische Ärztezeitung (Austria)
- doktor in wien (Austria)
- Ärztemagazin (Austria)
- Medical Tribune (Austria)
- Irish Medical Times (Ireland)
- e-health-suisse.ch (Switzerland)
- Diario Médico (Spain)
- Hospital Digital (Spain)
- Ingeniería Hospitalaria (Spain)
- Sanitaria 2000 (Spain)

11.2 Presence of Khresmoi at Medical Symposia

Khresmoi will have booths at the following medical conferences in the next months. The main aim will be to get physicians attending the conferences to perform short user-centred evaluation tasks using the Khresmoi system:

- 18-19.10.2013 Kinderhaut- Conference held at GAW for pediatricians and dermatologist - pilot user tests and active dissemination (GAW)
- 24-25.10.2013- Alternative Medizin- Conference held at GAW mainly for specialists of internal medicine - pilot user tests and active dissemination (GAW)
- 28-30.10.2013, Stafam Conference in Graz, User tests and active dissemination among general practitioners (GAW)

Khresmoi will investigate having a stand at the following medical symposia:

Name	Next Event	2012/2013/2014 recurring Date	URL
ECR (European Congress of Radiology)	6-10 March 2014	annual	http://www.myesr.org/
ESSR (European Society of Musculoskeletal Radiology)	26-28 June 2014	annual	http://www.essr.org/cms/website.php?id=en/index/congress_2014.htm
Medica	20-23 Nov 2013	annual	http://www.medica.de

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RSNA (Radiological Society of North America)	1-6 Dec 2013	annual	http://www.rsna.org/Annual_Meeting.aspx
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12 Planned Dissemination to the Public

12.1 Press Releases

Below is a list of dissemination channels for press releases:

Europe:

- Cordis Wire
- Europe's information Society
- EURResearch

International:

- ACM Tech News
- India PR Wire

Austria:

- APA (payable service)
- Die Presse
- Der Standard
- ORF - TV
- ORF - Radio

Czech Republic:

- Charles University has a journal ("Forum", and "iForum" for the online version)

France:

- General media (AFP, Le Monde, Les echos, Le Figaro, etc.)

Germany:

- Open PR German
- Press Relations (payable service)
- IDW Online (Pressdienst)
- University Newsletter
- Westfalenpost

Ireland:

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- Irish Times
- Irish Independent

Spain:

- Expansión
- Cinco Días
- Negocio & Estilo de Vida
- El País
- ABC
- El Mundo
- Público
- La Vanguardia
- El Periódico de Catalunya
- La Razón
- EFE
- Europa Press
- elconfidencial.com
- lainformacion.com
- Zum (El Periódico)
- Discovery dsalud
- Noticias Médicas
- Eureka (El Mundo)
- ABC Salud (ABC)
- Salud&Bienestar (El País)
- A tu salud (La Razón)
- Salud & Vida (La Vanguardia)

Switzerland:

- NZZ
- Le temps
- Walliser Bote
- EU Research Newsletter
- Le Nouvelliste
- Le Temps
- Radio Suisse

UK:

- Open PR English

12.2 Other

Newsletters twice a year will be continued.

13 Planned Training

13.1 Tutorials

The conferences listed in Section 9.2 are also targets for submitting tutorial proposals aimed at researchers.

13.2 Summer/Winter Schools

Khresmoi will continue to support the Summer School on Image Processing.

Further Summer Schools that Khresmoi partners will consider hosting are:

- ESSLLI (European Summer School for Logic, Language and Information)
- ESSIR (European Summer School on Information Retrieval)

13.3 Training Sessions for End Users

Such training sessions will be held in year 4 once the Khresmoi prototypes are mature. They will be synchronised with the presentations of Khresmoi at medical symposia, as listed in Section 11.2. We aim to have such a training session at the ECR 2014 in Vienna.

14 Conclusion

The Khresmoi output aimed at the research community has continued to increase, demonstrating the increasing number of publishable scientific results being obtained in Khresmoi. The Khresmoi deliverables have been downloaded often from the Khresmoi website, with the deliverables related to the use cases for the general public and medical professionals (WP8) receiving particular interest. Two papers describing the Khresmoi prototypes were co-authored by all members of the Khresmoi project.

Advantage was taken of the availability of the Khresmoi prototypes in year 3. At the beginning of year 3, the three faces of the Khresmoi prototype were defined: Khresmoi for Everyone, Khresmoi Professional and Khresmoi Radiology. These prototype faces allowed the end user groups to be well targeted.

The prototypes were demonstrated at various high impact events, including the CeBIT 2013, European Congress on Radiology (ECR) 2013 and Health 2.0 Europe 2012. The Khresmoi Professional prototype was released online in June 2013, and it is planned to release the Khresmoi for Everyone prototype as soon as it is installed on the Khresmoi Cloud so that it has sufficient computing power.

A number of high impact dissemination activities are already planned for year 4, particularly aimed at the business and medical communities, including:

- Booth at the BioTech Innovation Days in Paris, France in October 2013
- Booth at the ICT 2013 Event in Vilnius, Lithuania in November 2013
- Booth at the STAFAM Medical Conference for General Practitioners in Graz, Austria in November 2013
- Demonstration at the Radiological Society of North America (RSNA) Annual Meeting in Chicago, USA in December 2013
- Booth at the European Conference on Radiology (ECR) in Vienna, Austria in March 2014
- Khresmoi Booth at the CeBIT 2014 in Hannover, Germany in March 2014