

MOVING

ISSUE 2

JUNE 2017

INSIDE THIS ISSUE:

Welcome	1
User requirements status	1
SciFis tool	2
WevQuery system	2
"Learning How to Search" widget	3
1st MOVING prototype	3
"Rising star" at ACM Multimedia 2016	3
MOVING at ITI'S open door day	
Joint research collaboration	4
MOVING organised event	4
MultiEdTech	5
MOVING paper awarded at ACM ICMR 2017	4
Brief news: recent and upcoming events	5
Contact details	6

Welcome to our second Newsletter

We have already entered the second year of our project. First development outcomes are now available. The first prototype of the MOVING platform, based on the first set of user requirements, was demonstrated during the first review and will soon become publicly available. The development of other software components for video analysis, scientific figures search and hypothesis testing for web interaction patterns has progressed, and a number of scientific publications detailing the results were produced. Several scientific and industrial events have also been organised. Overall, in the first year the project progressed according to the plan, and all milestones defined were achieved. The MOVING consortium is now in place to culminate its efforts and successfully deliver its main results during its second year.

User requirements were structured and their implementation has started



Photo from a mock-up brainstorming session

The output of the user requirements analysis (Deliverable D1.1: User requirements and specification of the use cases) consists of initial requirements concerning the following topics: search field, search list, faceted search, visualisations, document search and analysis, video search and analysis, adaptive training support, community, user management and accessibility. Furthermore, the user requirements are complemented by the development and continuous testing of the platform mock-ups. The analysis was performed following a mixed methods approach for Use Case 1 on training public administrators, as well as for Use Case 2 on training young researchers. The approach included interviews with junior and senior professionals, brainstorming sessions, competitors analysis and analysis of international standards for the extraction of user requirements. Moreover, it included literature reviews, semi-structured interviews and a qualitative content analysis for the identification of requirements. Almost 150 in total, the requirements are well structured and their implementation has already started. In the following year we will continue the implementation on the platform and update the requirements list according to collected feedback and analyses results from focus groups.

Tools - Demos - Results

SciFis tool

SciFis is a search engine tool for scientific figures based on extracted text. Scientific figures such as bar charts, pie charts, maps, scatter plots, or similar infographics often include valuable textual information, which is not present in the surrounding text. The SciFis tool allows searching in such infographics in open access publications (such as journals, working papers and conferences in business studies and economics) and thus offers new ways in accessing them. You can visit SciFis at <http://broca.informatik.uni-kiel.de:20080/>.

SciFis, a search engine tool for scientific figures

WevQuery – A scalable system for testing hypotheses about web interaction patterns

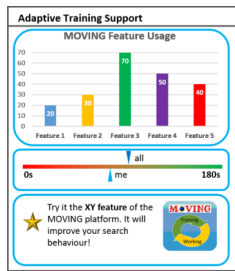
Title-Id	Date-Id	# Objects-Id
load_mousedown3	2017-02-13	17988
quickLoadClick	2017-02-14	17985
load_scroll_barClick	2017-04-11	12634
loadToKeydown	2017-04-11	3997
case2_loadScroll_1fs	2017-04-13	18727
case2_full_1s	2017-04-13	371

The WevQuery is a scalable system for testing hypotheses about web interaction patterns. Remotely stored user interaction logs give access to a wealth of data generated by large numbers of users which can be used to understand if interactive systems meet the expectations of designers. Unfortunately, detailed insight into users' interaction behaviour still requires a high degree of expertise. WevQuery allows designers to test their hypotheses about users' behaviour by using a graphical notation

to define the interaction patterns they are seeking. WevQuery is scalable as the queries can then be executed against large user interaction datasets by employing the MapReduce paradigm. This way WevQuery provides designers effortless access to harvest users' interaction patterns, removing the burden of low-level interaction data analysis. You can find more information regarding the system and download it under: <https://github.com/aapaolaza/WevQuery>

The web event query tool

“Learning How to Search” widget



The “Learning How to Search” widget is now part of the MOVING platform. The widget helps the user to get familiar with the platform and all its features. The latest version of MOVING integrates the first prototype of the widget in its user interface. It gives a graphical feedback about the user’s feature usage and provides guidance to explore more about the platform, for example features the user has not tried so far.

Initial prototype of the MOVING platform at the first project review

The first review of the project was successfully completed in May 2017. The meeting was held in Kiel and was hosted by ZBW on the 31st of May 2017. Among the first year deliverables, the demonstrations and the overall project progress that were presented, the consortium successfully presented the initial prototype of the MOVING platform that will soon become available to the public.

MOVING Search Project management Learning environment Contacts My account

Search for: Machine Learning Search

Advanced Search ▾

Doc Types

- Videlectures/lecture (590)
- evt (153)
- Videlectures/Invited talk (113)
- Videlectures/tutorial (92)
- book (60)
- esn (39)
- Videlectures/keynote (35)
- publication (20)

Results Concept Graph

1199 results have been found.

Machine Learning

NIPS Workshops 09 - Whistler - Published 2009-12-11

Abstract **Large-Scale Machine Learning: Parallelism and Massive Datasets**

Physical and economic limitations have forced computer architecture towards parallelism and away from exponential frequency scaling. Meanwhile, increased access to ubiquitous sensing and the web has resulted in an explosion in the size of machine learning tasks. In order to benefit from current and future trends in processor technology we must discover, understand, and exploit the available parallelism in machine learning. This workshop will achieve four key goals: *Bring together people with varying approaches to parallelism in machine learning to identify tools, techniques, and algorithmic ideas which have lead to successful parallel learning. *Invite researchers from related fields, including parallel algorithms, computer architecture, scientific computing, and distributed systems, who will provide new perspectives to the NIPS community on

Adaptive Training Support

MOVING feature usage

Average number of keywords

Me: 0.0%

All: 0.0%

Think about your feature usage. Did you improve search behavior over time?

Communication and dissemination activities

Dr. Ansgar Scherp is a “Rising star” at ACM Multimedia 2016

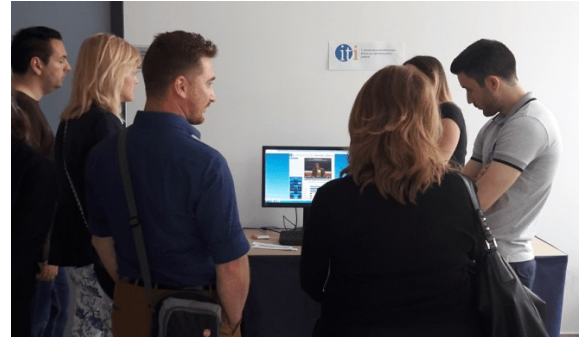


The ACM SIGMM Rising Stars Symposium honours selected SIGMM members’ research and contribution to the community. Among six selected rising SIGMM members, Dr. Ansgar Scherp from ZBW presented his research work, including the MOVING project, in his presentation entitled “About multimedia presentation generation and multimedia metadata: From synthesis to analysis and back?”. The SIGMM Rising Stars Symposium took place in October during the 24th ACM Multimedia Conference in Amsterdam, Netherlands. For more details please visit: http://www.acmmm.org/2016/?page_id=706

MOVING at the ITI's Open Door Day

MOVING demonstration at the ITI's open door day

The MOVING project, with special emphasis on its research results in video analysis and their application to training, were demonstrated at the 2017 ITI open day, which took place on May 16th in Thessaloniki, Greece. The MOVING lecture video analysis demo was shown to more than 200 visitors, including university students and faculty members from various disciplines, business representatives, and the general public.



Joined Research collaboration for improved understanding of textual data

Joint research collaboration for ALIGNED and MOVING

The EU H2020 projects ALIGNED (<http://aligned-project.eu/>) and MOVING have established a joint collaboration on the exchange of knowledge and datasets for text and data mining. The goal is to gain improved representation models and understanding of textual content used in the two

projects. The consortium partner Wolters Kluwer Germany of ALIGNED brings in its strong expertise in information services and knowledge about the representation and processing of datasets in the legal, business and tax sectors domains. In MOVING, the Knowledge Discovery group

of the consortium partner ZBW -- Leibniz-Information Centre for Economics is involved. The group develops in MOVING advanced tools and methods for the processing and improved understanding of textual data.

MOVING organises a special dissemination event at the 2nd World OER Congress



MOVING organises event at the 2nd OER Congress

MOVING organises a special dissemination event within the upcoming 2nd World Open Educational Resources Congress in Ljubljana, Slovenia in 18-20 September 2017: a special one-day showcase session titled "Technologies for OER and Open Education", which aims to improve the innovative capacity of the European society (information literacy, information management and knowledge management). This

event follows the Digital Agenda for Europe, stating "Member States to mainstream eLearning in national policies for the modernisation of education and training, including in curricula, assessment of learning outcomes and the professional development of teachers and trainers". It will allow actors currently involved in open education, knowledge management and information management projects in Europe to present the

results of their work to people from all societal sectors (companies, universities, public administration) who can benefit from a fundamental improvement of their information literacy. As information literacy itself is emerging as a distinct skill set and a necessary key to one's social and economic well-being in an increasingly complex information society, it is also important in the contemporary environment of rapid technological change and proliferating information resources, to give it the place it demands in education, specifically open education. A detailed program for this MOVING event will be announced soon.



MOVING organises the MultiEdTech 2017 workshop

We are pleased to announce that MOVING organises the 1st International Workshop on Educational and Knowledge Technologies (MultiEdTech2017) at the ACM Multimedia Conference that will take place on October 23 – 27, 2017 at Mountain View, CA, USA. The date for paper submission is 19 July 2017. For further details about the topics of the workshop, the submission of papers and the program committee please visit the webpage of the [MultiEdTech2017](#) workshop.

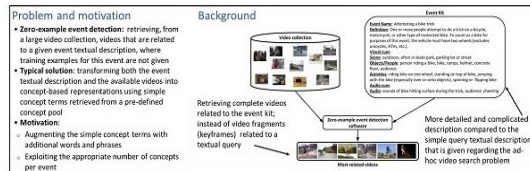
MultiEdTech 2017

1st International Workshop on Educational and Knowledge Technologies
at the ACM Multimedia Conference, October 23 - 27, 2017
Mountain View, CA, USA

MOVING paper awarded at the ACM ICMR 2017

 Information Technologies Institute Concept Language Models and Event-based Concept Number Selection for Zero-example Event Detection  Queen Mary University of London

¹Damianos Galanopoulos¹, Fotini Markatopoulou², Vasileios Mezaris³, Ioannis Patras¹
¹Information Technologies Institute (ITI), CERTH, Thessaloniki, Greece ²Queen Mary University of London, London, UK



The paper “Concept Language Models and Event-based Concept Number Selection for Zero-example Event Detection”, by D. Galanopoulos, F. Markatopoulou, V. Mezaris, and I. Patras, received the Best Poster Award at the [ACM ICMR 2017](#) conference that took place in Bucharest, Romania, 6th-9th June 2017.

Brief news: recent and upcoming events

- ZBW organised a workshop for economists, on “Text and Data Mining (TDM) in economics”, and presented MOVING to researchers from several economics research institutions. The workshop was held at the ZBW premises in Hamburg on 25 Nov. 2016.
- Two MOVING works, on automated text extraction from scholarly figures and on video search, were presented at the 23rd Int. Conference on Multimedia Modeling (MMM), in Jan. 2017.
- An overview presentation on content recommendation and its applications to incremental learning was given at the 113th Int. Conf. on Artificial Intelligence and Soft Computing (ICAISC), in Jan. 2017.
- MOVING was presented in the ScaDS retreat, held at Laubusch, Germany in Jan. 2017.
- A presentation of the MOVING platform capabilities was given at the Final IESI Conference on 'ICT-Enabled Social Innovation to support the implementation of the EU Social Investment Package', in Brussels, Belgium at the Committee of the EC Regions, in March 2017.
- MOVING's work on adaptive and reflective training support for improving search behaviour in Industry 4.0 was presented at the 9th Conf. on Professional Knowledge Management, in April 2017.
- Two MOVING video analysis papers and a demo paper were presented at the ACM Int. Conf. on Multimedia Retrieval (ICMR 2017), and a paper on machine learning for video analysis was presented at the 12th IEEE Int. Conf. on Automatic Face and Gesture Recognition (FG), both held in June 2017.
- A presentation on WevQuery: a scalable system for testing hypotheses about web interaction patterns was given at the 9th ACM SIGCHI Symp. on Engineering Interactive Computing Systems, in June 2017.
- MOVING technology and use cases were presented by Prof. Dr. Köhler and discussed in the Workshop “Democracy 4.0 - opportunity or risk? Media change and participation in local politics”, held in June (on the open city hall day) in Dresden with the participation of local politicians, researchers and about 50 citizens, and in an invited lecture titled “Moving Science toward 2.0?” delivered at the Leibniz Institute for Psychology Information (ZPID) in Trier at the end of June.

Find out more details about these and other events where MOVING was present at:

<http://moving-project.eu/index.php/category/news/>

MOVING



Centre for Research & Technology Hellas
Information Technologies Institute
<http://www.iti.gr>



Ernst & Young GmbH
<http://www.ey.com/Home>



Technische Universität Dresden
<https://tu-dresden.de>



Know-Center
<http://www.know-center.tugraz.at/>



Institut Jozef Stefan
<https://www.ijs.si/ijsw/JSI>



ZBW-Leibniz Information Centre for Economics
<http://www.zbw.eu/en/>



The University of Manchester
<http://www.manchester.ac.uk/>

GESIS-Leibniz Institute for the Social Sciences
<http://www.gesis.org/en/institute/>

Fundacja Progress and Business
<http://www.pbf.pl>

Contact Details

Project Coordinator: Dr. Vasileios Mezaris
Address: Information Technologies Institute (ITI),
Centre for Research and Technology Hellas
(CERTH) 6th Km Charilaou - Thermi Road, 57001
Thermi - Thessaloniki, Greece
Fax: +302310 474128
Tel: +302311 257770
E-mail: bmezaris@iti.gr

Project Details

Full Title: "TraininG towards a society of data-savvy information prOfessionals to enable open leadership INnovation"
Project Identifier: H2020 - 693092
Start Date: 1st April 2016
End Date: 31st March 2019
Duration: 36 months



This project has received funding from the European Union's Horizon 2020 research and innovation programme under grant agreement No 693092