AComIn:
Advanced Computing for Innovation

FP7 Capacity Programme
Research Potential of Convergence Regions

EVENT ORGANISATION REPORT

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Summary: Report about the organisation of the International Workshop "Big Data in Natural Language Processing, Education and Digital Collections**"**, 29 June 2015, Sofia, Bulgaria

Status: Final Report

Distribution: Public

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Start date of the project: 01/10/2012   **Duration: 42 months**

Report about the International Workshop "Big Data in Natural Language Processing, Education and Digital Collections", an event supported by AComIn

Name and type of the event:

International Workshop
   "Big Data in Natural Language Processing, Education and Digital Collections"
- aiming to disseminate AComIn achievements in language and semantic technologies
- viewed as a discussion forum for presentation of certain intermediate results
- open to demonstration of software prototypes
- with strong interdisciplinary nature
- with participants from Bulgaria, USA, Malta, Qatar and Germany

Place, dates:

Sofia, Bulgaria
IICT-BAS Block 25A Hall 2
29 June 2015

Programming and Organisation committees:

The team behind the Workshop consists of the following experts who serve as Organising Committee:
Galia Angelova, IICT-BAS, Bulgaria
Gennady Agre, IICT-BAS, Bulgaria

Participants /number, types/ :

From IICT: 13 researchers (G. Angelova, O. Kanishcheva, I. Nikolova, I. Radev, L. Zlatkov, S. Kuntcheva, A. Popov, N. Terzijska, V. Todorova, Gennady Agre, Kamenka Staykova, Desislava Naydenova, Desislava Ivanova)

Bulgarian participants outside IICT: 10 researchers, students and industrial representatives, including 4 representatives from software companies and a eLearning portal

Foreign lecturers:
- Dr Preslav Nakov - Qatar Computing Research Institute, Qatar Foundation (Qatar),
- Prof. Darina Dicheva and Prof. Christo Dichev - Winston-Salem State University (USA)
- Prof. Milena Dobreva (University of Malta)

Foreign participants: 1

Short description:

The International Workshop "Big Data in eLearning and Digital Collections" aimed to gather experts who investigate hot research issues or implement novel applications in: Cloud computing, Natural language processing, Information retrieval, Knowledge discovery, Data visualization,

Educational analytics, Data analytics for social media, Content development and metadata management, Business intelligence etc.

The Workshop provided a framework for presentation of AComIn results in intelligent management of digital content, grouped in the following topics:

- Development of large-scale linguistic resources for Bulgarian language
- Educational analytics for increasing user involvement in eLearning
- Sentiment analysis of annotated images based on image tags
- Information extraction of patient-related entities from large repositories of medical texts in Bulgarian language

Scientific Programme of the whole event:

The Scientific Programmes of the events is available at:
http://iict.bas.bg/acomin/news/29-June-2015.pdf

Scientific Programme of the AComIn-related activities:

The whole event was dedicated to topics relevant to AComIn. Six presentations concerned directly dissemination of project results. Two of them presented results that are mature enough to be published after peer review.

AComIn-related papers presented at the event and published after peer review:

Three AComIn-related papers will be published in the Journal CIT:
• Dichev, C., D. Dicheva, G. Agre and G. Angelova: Trends and Opportunities in Computer Science OER Development, Cybernetics and Information Technologies, 15(3), 2015, pp. 114-126.
• Boytcheva, S., G. Angelova, Z. Angelov, and D. Tcharaktchiev. Text Mining and Big Data Analytics for Retrospective Analysis of Clinical Texts from Outpatient Care, Cybernetics and Information Technologies, Vol. 15 (4), 2015, to appear.
• Dobreva, M., G.Angelova, and G. Agre. Bridging the Gap between Digital Libraries and eLearning, Cybernetics and Information Technologies, Vol. 15 (4), 2015, to appear.

Assessment of the added-value of the event to the AComIn dissemination objectives:

The Workshop was a very useful meeting where comments and suggestions helped to shape or improve AComIn results. This concerns at first the ideas about image sentiment analysis, and partly the intermediate results concerning the educational analytics task performed for UCHA.SE. At the same time the event offered an open forum for public presentation of mature project results.

Changes in the financial planning of the AComIn support spending (if any):

There were no changes in the budget plan, approved by the AComIn Executive Board in March 2015 (the plan contains only minor expenses for coffee breaks).

Reason for the changes during the actual event implementation: N/A

30 June 2015   **Event organiser:** Galia Angelova

Appendix: photos