



FP7-REGPOT-2012-2013-1

Grant Agreement: 316087

AComIn: Advanced Computing for Innovation

**FP7 Capacity Programme
Research Potential of Convergence Regions**

EVENT ORGANISATION REPORT

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**Summary: Report on the organisation of the 16th International Conference AIMSA
2014: Artificial Intelligence: Methodology, Systems, and Application,
Varna, Bulgaria, September 10-13, 2014**

Status: Final Report

Distribution: Public

Issue Date: September 23, 2014

Start date of the project: 01/10/2012

Duration: 42 months



Report about an AComin Supported Event AIMSA 2014

Name and type of the event: The 16th International Conference **AIMSA 2014: Artificial Intelligence: Methodology, Systems, and Application.**

Biennial series of AI conferences that have been held in Bulgaria since 1984

Place, dates: Hotel "Lilia", Golden Sands resort, Varna, Bulgaria

- AIMSA Tutorial: 3D Visualization of Cultural heritage - September 10, 2014
- Main Conference - September 11-13, 2014

Programming and Organisation committees:

The Programme Committee of the conference consists of 67 members representing leading universities and research institutes from Australia, Belgium, Brazil, Bulgaria, Canada, China, Czech Republic, France, Germany, Greece, Indonesia, Ireland, Italy, Japan, The Netherlands, Poland, Portugal, Romania, Russia, Spain, Turkey, UK and USA.

The Local Organising Committee consists of the following members (all from IICT):

Gennady Agre - Chairman
Danail Dochev
Ivo Marinchev
Kamenka Staykova

Participants /number, types/ :

from IICT: 16 – all of them are researchers

Bulgarian participants outside IICT: 10 – 5 of them are researchers

foreign participants:35 researchers

invited participants: 5 - 4 of them are supported by AComIn.

Short description:

The conference has covered a wide range of topics in Artificial Intelligence and related disciplines. The events has provided a forum for exchanging ideas between scientists developing and studying methods and algorithms for Artificial Intelligence as well as researchers, who apply them for solving real life problems. The following major scientific topics, all related to the AComIn project activities, are included: Machine learning, Data mining, Natural language processing and Formal concept analysis, Neural networks, Decision support, Planning and Agents, Knowledge representation and reasoning, Social Networks.

The one day tutorial was designed to give delegates an introduction to the theory, process and practice of capturing and preparing digital models of cultural heritage artefacts, and how these digital objects can be used to enrich the understanding of our past.

Scientific Programme of the whole event:

The Scientific Programme of the conference and the tutorial schedule are available at:

<http://www.aimsaconference.org/>

Scientific Programme of the AComIn-related activities:

The Scientific Programme of the conference included 3 Invited talks and 8 Sessions of Contributed Talks. All these sessions are related to the AComIn project activities.

The invited lecturers supported by AComIn gave the following talks:

- Bernhard Ganter (Technical University of Dresden, Germany). **Formal Concepts for Learning and Education.**
- Diego Calvanese (Free University of Bozen-Bolzano, Italy). **Scalable End-User Access to Big Data.**

The tutorial was broken into two parts: theory and practice. The morning session consisted of a series of lectures designed to ground the delegates in the potential for digital cultural heritage, the challenges of undertaking such a task and the current trends in exploiting such digital resources.

The invited lecturers supported by AComIn gave the following talks:

- Drew Backer (Kings College, London, UK). **Digitising Cultural Heritage - An overview of the state of digital cultural heritage, its importance, use and potential**
- Drew Backer (Kings College, London, UK). **Making Spaces - An entry level introduction to multi dimensional theory (space, time and probability), interaction design and dissemination**
- Martin Blazeby (Kings College, London, UK). **Best Practice for 3D Digitisation - The London Charter for the Computer-based Visualisation of Cultural Heritage: initiative and other approaches**
- Martin Blazeby (Kings College, London, UK). **3D Capture Techniques.**

The second half of the tutorial included a number of practical sessions allowing delegates to get hands on experience with technologies available with an emphasis on low cost, ease of use and sustainability.

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

The following two AComIn-related papers were published in the AIMSA'2014 Proceedings printed as a special volume (8722) of the Springer Lecture Notes in Artificial Intelligence (LNAI) series in 2014:

- Ivelina Nikolova, Dimitar Tcharaktchiev, Svetla Boytcheva, Zhivko Angelov, and Galia Angelova. *Applying Language Technologies on Healthcare patient Records for Better Treatment of Bulgarian Diabetic Patients*. (AIMSA 2014 Best Paper Award)
- Petia Koprinkova-Hristova and Kiril Alexiev. *Dynamic Sounds Fields Clusterization Using Neuro-Fuzzy Approach*.

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

The support, provided by AComIn to AIMSA 2014, enabled:

- To cover the travel and local expenses of four worldwide known scientists and experts giving invited talks.
- To support a part (6 from 16) of the participants from IICT-BAS
- To cover expenses for renting a hall for organizing the tutorial.

The conference materials included the AComIn Newsletters informing the participants about the objectives, specific activities and the current achievements of the project.

The AComIn support is acknowledged in the AIMSA 2014 Proceedings as well as at the conference website.

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

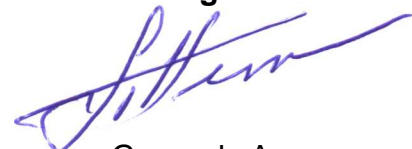
There were no changes in the budget plan, approved by the AComIn Executive Board.

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

(change of programme, last minute change of invited speakers, etc./

19 September 2014

Event organiser:



Gennady Agre