



## Bulgarian Academy of Sciences



## Institute of Information and Communication Technologies

FP7-REGPOT-2012-2013-1

Grant Agreement: 316087



**AComIn:**

**Advanced Computing for Innovation**

FP7 Capacity Programme

Research Potential of Convergence Regions

# WP1 Activities

## Long-term employments of post-docs

### 1. Ph.D. Irina Temnikova: [October 2012 - May 2013](#)

#### Expertise –

2012-Ph.D. University of Wolverhampton, UK, computational linguistic

October 2010 - October 2011: Quality Assurance Linguist-specialist for Bulgarian for Appen Butler Hill Ltd.

July 2007 - December 2011: Part-time main Editorial Assistant for the Journal of Natural Language Engineering.

October 2005 - June 2007: Full-time translator from English, French, Italian into Bulgarian and Russian for the European Parliament (Luxembourg).

# Long-term employments of post-docs

## 2. Ph.D. Stanislav Stoykov: [October 2012](#)

### Expertise

Engineering, University of Porto, Portugal

March 2008 - March 2012 - PhD in Mechanical Engineering at Faculty of Non-linear dynamics in structures: bifurcation theory, stability and chaos.

## 3. Ph.D. Jean Michel Sellier: [November 2012](#)

### Expertise before coming

Research Assistant Professor at Purdue, Indiana, USA

2005: Ph.D. in Mathematics (simulation of semiconductor devices), University Catania, Italy

# Long-term employments of post-docs

## 4. Ph.D. Ivan Georgiev: September 2013

### Expertise before coming

PostDoc Scientist, Johann Radon Institute for Computational and Applied Mathematics, Austrian Academy of Sciences

**2007 Ph.D. in Computational Mathematics, Bulgarian Academy of Sciences**

Efficient numerical solution methods for partial differential equations, solvers for systems resulting from non-standard finite element discretization, robust with respect to anisotropy and coefficient heterogeneity.

## 5. Ph.D. Clemens Hofreither: August 2013 - December 2013

### Expertise before coming

Postdoc in the project "Geometry + Simulation" at Johannes Kepler University Linz

**2012, PhD thesis "A Non-standard Finite Element Method using Boundary Integral Operators" with distinction at the Doctoral College "Computational Mathematics" hosted at the Johannes Kepler University in Linz, Austria.**

# Wp1 Activities

## Short employments of experienced researchers

**1. Prof. Raytcho Lazarov**, Texas A&M University, College Station, USA

April 10 – May 10, 2013

*Activities in his program*

**a/ Preconditioning Techniques for Processes in Heterogeneous Media**

**b/ Delivering Intensive Course of Lectures in Advanced Numerical Methods for PDEs**

**c/ Organization of a Special Session Special on “Modeling and Numerical Simulation of Processes in Highly Heterogeneous Media” at the 9-th Conference on Large Scale Scientific Computing (LSSC’13), Sozopol, June 3 – 7, 2013**

# Short employments of experienced researchers

**2. Prof. Darina Dicheva** , Winston-Salem State University,  
Winston Salem, NC, USA

**June 03 – July 02, 2013**

*Activities in her program*

- 1. Reviewing the state of the art and the trends in K12 e-learning developments and practices around the world.**
- 2. Presenting the prepared review of the state of the art in K12 e-learning practices at an AComIn seminar.**
- 3. Delivering a lecture on improving content findability and search in educational digital repositories with a focus on using language and semantic technologies.**
- 4. Metadata and semantic annotation in large educational digital repositories.**

# Short employments of experienced researchers

## **3. Prof. Christo Dichev** , Winston Salem State University, USA, **June 3 – July 3, 2013**

*Activities in his program*

- 1. Developing methods for assessing and analyzing the local needs and readiness for online K-12 education.**
- 2. Delivering lecture on the critical aspects for successful start of K-12 online learning and the role of community of active supporters in the initial stage for advocating, promoting, sharing common experiences and providing feedback.**
- 3. Critical analysis of the impact of K-12 online learning: emerging forms, best practices and examples**

# Short employments of experienced researchers

## **4. Dr Milena Dobрева, University of Malta**

**June 18-July 17, 2013**

*Activities in her program*

- 1 Research on using linked data technologies in digital cultural heritage repositories.**
- 2. Improving the user experiences in digital cultural heritage environments**
- 3. Research on potential synergies between access methods to digitalized cultural content and educational resources**

## **5. Dr. Petar Gulev**

The London School of Fashion, University of the Arts, London, UK

- 1. Application of advanced 3D technologies in Textile industry and fashion**
- 2. Demonstration and creation of 3D objects in real time using MakerBotReplicator2.**



# Short employments of experienced researchers

## **6. Priv. Doz. Dr. Johannes Kraus**

**Since March 2010: Senior Scientist, Johann Radon Institute, Austrian Academy of Sciences, Linz**  
**Senior Scientist**

*Activities in his program*

- 1. Numerical Solution of Partial Differential Equations**
- 2. Finite Element Methods**
- 3. Numerical Linear Algebra**
- 4. Algebraic Multigrid and Multilevel Methods**

# Short employments of experienced researchers

## CONCLUSIONS

### 1. Post Doc. Positions:

- Mainly in the domain of advanced computing;
- only one in computational linguistic.
- Successful appointment: only under personal invitations by ICT researchers.

### 2. Short term employment of experienced researchers

- Mainly colleagues from Bulgaria, who returned from abroad;
- The personal relations of ICT staff influence the incoming researchers: Priv. Doz. Dr. Johannes Kraus