



## CTIT Newsletter – July 2012

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### News



#### HTSM Call 2012 has been opened

The first call for the HTSM Topsector 2012 has been opened. Please find more information on the [STW website](#). Deadline submission: **September 4, 2012.**



#### New impulse for Cyber Security research

The Ministries of V&J, BZK, Defensie en EL&I, together with NWO and Agentschap NL intend to give an impulse to the research on [cyber security](#). There is a budget available of 6.3 M-euro (information in Dutch). Submission deadline: October 2, 2012.



#### NWO

A new call has been opened on [Creative Industry](#) (cooperation NWO/TNO) within the framework of the Topsectoren.



#### CTIT successful in STW Perspectief Programme

Prof. Gerard Smit of the CAES group has been very successful in acquiring one of the 5 STW Perspectief Programmes. From the UT 4 research groups will participate. [Read more](#)



#### September 12, 2012: Dealing with security threats from cyberspace

On September 12, 2012, TNO will organize a conference: "Dealing with security threats from cyberspace".

Location: TNO Oude Waalsdorperweg 63 Den Haag (information in Dutch). [Read more](#)

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### 22-23 October 2012: ICT Open 2012

On October 22-23, 2012 the [ICT Open 2012](#) Conference will be held. Programme themes are: ProRisc, SAFE, PROGRESS, Sentinels, ASCI, IPA and SICS. Location: WTC Rotterdam



### CTIT very successful in last Calls of 2011 and first Call of 2012

Several research groups have acquired new projects within the last calls of 2011 and first Call of 2012. In total 30 projects were submitted, of which 9 were approved: 5 STREPs, 3 IPs, and 1 NoE. CTIT is coordinator of 4 projects. Involved groups are: FMT, DIES, IS, ICD, IST and DACS. The DACS group even acquired 4 of the projects!



### CORS Practice Prize for Peter Vanberkel

Peter Vanberkel, who graduated recently, has acquired the [CORS Practice Prize](#) for research on the Operations Chamber planning system of Netherlands Cancer Institute - Antony van Leeuwenhoek hospital. The CORS prize has been awarded by the Canadian Operations Research Society (article in Dutch)



### Google Award Nelly Litvak

SOR researcher [Nelly Litvak](#) has acquired a Google Award for her research: Mathematics for trend detection in social media.



### 6 M-€ for research Creative Industry

The Ministry of EL&I has announced a 6 M-€ budget for research on innovative products and services for the [creative industry](#) (information in Dutch). More information on the Call for Proposals will be published later.

## Agenda

- 12 September 2012: [Dealing with security threats from cyberspace](#) (information in Dutch)
- 26-27 September 2012: [ICT Proposers' Day 2012: Networking for European ICT Research and Development](#). Location: International Expocentre Expo XXI, Warsaw, Poland
- 11 October 2012: [STW Annual Congress](#). Location: Nieuwegein's Business Center
- 22-23 October 2012: [ICT Open 2012](#). Location: WTC Rotterdam

## PhD defences

July 4, 2012:	Julio Ibarra (MB/IS&CM)
July 5, 2012:	Maurice Bosman (EWI/CAES)
July 5, 2012:	Laurens van der Werff (EWI/HMI)
August 31, 2012:	Silja Eckartz (EWI/IS)
September 21, 2012:	Hayrettin Gürkök (EWI/HMI)
September 26, 2012:	Almer Tigelaar (EWI/DB)
September 27, 2012:	Luc Wismans (EWI/CTS)

## Information on research funding programs

### Seventh Framework Program of the European Union:

#### ICT Program:



Currently, the [10th](#) of the FP7/ICT Programme has been opened., with deadline: **15 January 2013**. It is a large Call, with a budget of 705.5 M-€. The following challenges are being addressed:

- ICT-2013.1.2 Software Engineering, Services and Cloud Computing
- ICT-2013.1.3 Digital Enterprise
- ICT-2013.1.5 Trustworthy ICT
- ICT-2013.1.6 Connected and Social media
- ICT-2013.1.7 Future Internet Research Experimentation (FIRE)
- ICT-2013.2.1 Robotics, Cognitive Systems & Smart Spaces, SymbioICT-2013.2.2 Robotics use cases & Accompanying measurestic Interaction
- ICT-2013.3.3 Heterogeneous Integration and take-up of Key Enabling Technologies for Components and Systems
- ICT-2013.3.4 Advanced Computing, embedded and Control Systems
- ICT-2013.4.1 Content analytics and language technologies
- ICT-2013.5.1 Personalised health, active ageing and independent living
- ICT-2013.5.2 Virtual Physiological Human
- ICT-2013.5.3: ICT for smart and personalised inclusion

- ICT 2013.5.4 ICT for Governance and Policy Modelling
- ICT-2013.5.5 Collective Awareness Platforms for Sustainability and Social Innovation
- ICT-2013.6.5 Co-operative mobility
- ICT-2013.8.1 Technologies and scientific foundations in the field of creativity
- ICT-2013.9.6 FET Proactive: Evolving Living Technologies (EVLIT)
- ICT-2013.9.7 FET Proactive: Atomic and Molecular Scale Devices and Systems
- ICT-2013.9.8 Coordinating communities, identifying new research topics for FET Proactive initiatives and fostering interdisciplinary dialogue
- ICT-2013.10.3 International partnership building and support to dialogues – Horizontal International Cooperation Actions
- ICT-2013.11.1 Ensuring more efficient, higher quality public services through Pre- Commercial Procurement of ICT solutions across various sectors of public interest
- ICT-2013.11.3 High quality cloud computing environment for public sector needs, validated through a joint pre- commercial procurement (PCP)
- ICT-2013.11.4 Supplements to Strengthen Cooperation in ICT R&D in an Enlarged European Union
- ICT-2013.12.1 Exa-scale computing platforms, software and applications



[ERC Starting Grants](#), deadline: October 17, 2012

[ERC Advanced Grants](#), deadline: November 22, 2012

[ERC Proof of Concepts](#) (researchers who have already been awarded an ERC grant), deadline: October 3, 2012

### [All Open Calls](#)

We will keep our [website](#) updated with the latest news; you may always contact us for information ([Wilma Hiddink](#), a.o. for EPSS (A2 forms for proposal submission), ECAS, NEF and GPFs (A2 forms for Grant Preparation)).

### ***Upcoming deadlines***

#### Continuously

- [NWO Free Competition Exact Sciences](#) (*information in Dutch; currently temporarily closed*)
- [NWO TOP Subsidies](#) (*information in Dutch*)

## CTIT Newsletter – July 2012

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- [NWO Brain & Cognition: an integrated approach](#) (*Social Sciences, ZonMW - information in Dutch*)
- [NWO Free Competition Humanities](#) (*information in Dutch*)
- NWO [Aspasia](#) (Female researchers in science / by nomination) (*information in Dutch*)
- [NWO Big Grid computing and data facilities](#) (*information in Dutch*)
- [ZonMW TOP-subsidies](#) (innovative research in health / for excellent groups)
- [STW Open Technology Programme](#) (*information in Dutch*)
- [Future & Emerging Technologies](#) (FET / several deadlines until March 12, 2013)
- [NWO eScience Open Call for Converging Sciences](#) (*on invitation; information in Dutch*)

### August

- 12-8-2012: [MARIE CURIE INTERNATIONAL INCOMING FELLOWSHIPS](#) (IIF)
- 16-8-2012: [MARIE CURIE INTERNATIONAL OUTGOING FELLOWSHIPS FOR CAREER DEVELOPMENT](#) (IOF)
- 16-8-2012: [MARIE CURIE INTRA-EUROPEAN FELLOWSHIPS FOR CAREER DEVELOPMENT](#) (IEF)
- 28-8-2012: Deadline [Vici full proposals](#)
- 30-8-2012: [Investments NWO Middelgroot](#)
- 30-8-2012: [NWO Rubicon](#)

### September

- 4-9-2012: [HTSM Call 2012](#)
- 6-9-2012: [Artemis](#)
- 18-9-2012: [Marie Curie Career Integration Grants](#)

### October

- 2-10-2012: [Vidi-proposals](#)
- 2-10-2012: [Top-subsidies Societal & Behavioural Sciences](#) (NWO)
- 2-12-2012: [National Programme on Cyber Security](#) (Ministries of V&J, BZK, Defensie en EL&I, together with NWO, STW and Agentschap NL)
- 3-10-2012: [Call for proposals for ERC Proof of Concept](#) (Final deadline); [ERC website](#)
- 16-10-2012: [Creative Industry](#) (NWO and TNO; *information in Dutch*)
- 17-10-2012: [ERC Starting Grants](#)
- 23-10-2012: [FET Flagship Initiatives](#)
- 24-10-2012: [Future Internet 2012](#) (FI.ICT-2011.1.8 Use Case scenarios and early trials (Phase 2 and FI.ICT-2011.1.9 Capacity Building))

### November:

- 22-11-2012: FP7 [Security](#)
- 22-11-2012: [ERC Advanced Grant](#)

### December:

- 4-12-2012: [ICT for Green Cars](#)
- 4-12-2012: [Smart Cities and Communities](#)
- 4-12-2012: [Factories of the Future](#)

## CTIT Newsletter – July 2012

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### January 2013:

- 8-1-2013: [FP7 Energy](#)
- 10-1-2013: **ERC Synergy Grant** – *New instrument, no information page yet* (The Synergy Grant is a new ERC pilot funding scheme of a 'frontier' research grant supporting small groups of excellent researchers (tackling interdisciplinary research problems) and pushing forward the frontiers of knowledge. Synergy Grants fund proposals that demonstrate the complementarity and added-value of joint research).
- 15-1-2013: [FP7 ICT Call 10](#) (Last LARGE Call)

### February:

- 21-2-2013: **ERC Consolidator Grant** - *New instrument, no information page yet* (for researchers who have been awarded their first PhD over 7 and up to 12 years prior to the publication date of the call)

### March:

- 12-3-2013: [FET Open](#)

### April:

- 16-4-2013: FP7 ICT Call 11 (no information yet, smaller than Call 10)
- 24-4-2013: Call for proposals for ERC Proof of Concept

### October

- 3-10-2013: Call for proposals for ERC Proof of Concept

[FP7/ICT Workprogramme 2013](#)

[Information on research programmes \(EU; /NWO/STW\)](#)

## **Projects**

### **MobiGuide**

#### **GUIDING PATIENTS ANYTIME EVERYWHERE**

Project Number: 287811

Project Manager: (For CTIT) Val Jones

Project Manager: Faculty of [Electrical Engineering, Mathematics and Computer Science](#)

Tel.: +31-53-4892760 (secretary)

Email: [v.m.jones@utwente.nl](mailto:v.m.jones@utwente.nl)

Project website: [MobiGuide](#)

### **Summary**

MobiGuide investigates, develops and evaluates a novel Patient Guidance System (PGS) which gives patients personalized clinical-guideline-based guidance anytime and anywhere and so supports them in day-to-day management of their health condition.

MobiGuide is a four year Integrated Project funded by the European Commission under Call 7 of the 7th Framework Programme (Objective: ICT-2011.5.3a: Patient guidance services (PGS) for personalized management of health status).

MobiGuide addresses EU priorities: increasing patient safety, ubiquitous secure access to health care, patient empowerment, developing a common platform for healthcare services and European competitiveness.

MobiGuide will research and develop a patient guidance system that integrates hospital EMRs and telemonitoring data into a Personal Health Record (PHR) which is ubiquitously accessible by patients and care providers, so enabling personalized, secure distributed decision support tailored to the patient's current situation as well as to the technological context. MobiGuide will develop guidance services amongst others for patients with atrial fibrillation and for women with complications of pregnancy (gestational diabetes and hypertension). Decision Support will be evidence-based, utilizing CIGs (Computer Interpretable Clinical Guidelines) in real time in a mobile and distributed environment. MobiGuide's ubiquity will be achieved by having a Decision Support System (DSS) at the back end, and at the front end by utilizing Body Area Network (BAN) technology and developing a coordinated light-weight mobile DSS to run on the BAN that can operate independently if needed (eg in case of communications failure). Personalization will be achieved by considering patient preferences and context. Retrospective data analysis will be used to assess compliance and to indicate care pathways shown to be beneficial for certain patient contexts.

The research contribution of the Telemedicine Group revolves around mobile patient monitoring and mobile clinical decision support using Body Area Networks (smartphones or tablets equipped with the relevant sensors needed for monitoring patients with the selected clinical conditions).

The goals of our work in MobiGuide are:

- To investigate, develop and evaluate context-awareness provisioning for a decision support system which gives personalized and context-aware guidance to the ambulatory patient in alignment with medical best practice
- To investigate, design, develop and evaluate generic mechanisms for implementing evidence-based Clinical Decision Support (CDS) on a mobile platform in the context of a larger distributed system.

**Project duration:** 1-11-2011/1-11-2015

**Project budget:** 7 M-€ / 5.4 M-€ funding

**Number of person/years:** 805.50 man months

**Project Coordinator:** University of Haifa

**Participants:** The consortium includes universities and industrial and clinical partners from five countries. The partners are: University of Haifa, Israel (Coordinator); Ben-Gurion University, Israel; University of Pavia, Italy; University of Twente, The Netherlands; Vienna University of Technology, Austria; MobiHealth BV, The Netherlands; Fondazione Salvatore Maugeri Clinica Del Lavoro e della Riabilitazione, Italy; University Polytechnic of Madrid, Spain; Corporació Sanitaria Parc Tauli, Spain;

ATOS Origin, Spain; Beacon Tech Ltd., Israel; ZorgGemak BV, The Netherlands; and Catalonia Diabetic Association, Spain.

**Project budget CTIT:** 719 k-€ / 558 k-€ funding

**Number of person/years CTIT:** 55 man months

**Involved groups:** [Telemedicine Group](#) part of [Biomedical Signals and Systems](#)

CTIT Strategic Research Orientation: [Applied Science of Services for Information Society Technologies](#)

### INFINITY

#### RETRIEVAL FOR INFORMATION SERVICES (part of the COMMIT Programme)

Project Number: P01

Project Manager: Prof. dr. Peter M.G. Apers / Dr.Ir. Djoerd Hiemstra  
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Project website: <http://www.project-infiniti.nl/>



### Summary

Search technology has become a key component of our daily life. The ability to locate relevant documents has become a standard commodity. This project takes search beyond merely locating documents. Entities and events are seen as the most salient ingredients of textual and audiovisual content; they represent valuable knowledge ingredients that are heavily searched for, and conveniently serve as the linking pin between heterogeneous content sets. Semantic search is structured around entities, their properties, relations, developments as well as pertinent attitudes and emotions. The project takes on the challenge of building semantic search technology, with a special focus on issue management algorithms and tools, i.e., for identifying entities, issues, naming stakeholders, capturing attitudes and emotions, and monitoring relevant events and changes in highly dynamic environments.



## CTIT Newsletter – July 2012

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### *Planning of all dimensions*

P1 will be developed in four phases, with milestones at m9, m24, m36, m48. The initial phase will focus on requirements analysis, use case analysis, data set creation, system design and making available to all project partners of tooling available at the partners's sites as initial baselines. Later phases will consist of significant extensions to these baselines. Results typically emerge from analysis-design-evaluate cycles for each milestone (in the form of papers, systems, data sets and the outcomes of user studies. Impact and valorization will be anchored in use cases and will mostly be achieved through the release (as open source or through licensing) of software. Dissemination is mainly pursued through national newspapers (NRC, Volkskrant), professional publications (Computable, Information professional, DIXIT) and public demonstrators. International embedding is realized through the organization of and participation in international competitions in information retrieval and language technology (TREC, CLEF, INEX, MediEval) and through coordination of and participation in ESF and EU FP7 programmes and international associations. Synergy is envisaged with other COMMIT projects that can benefit from P1's text-based technology (P5, P6, P7, P23) or that complement or help facilitate it (P6, P20, P23). Within P1, researchers from the humanities and social sciences have a special and explicit role, with regards to methodological grounding and content analysis aspects of the project.

**Project duration:** 2011-2015

**Project budget:** 8.2 M-€ / 2.8 M-€ funding

**Number of person/months:** 994 person months, 20.7 fte

**Project Coordinator:** Universiteit van Amsterdam

**Participants:** Universiteit van Tilburg, ANP, Universiteit van Amsterdam, Talking Trends, Erasmus Universiteit Rotterdam, De Persgroep, Teezir, TrendLight, Politie Gelderland-Zuid, CWI, Textkernel, UT, WCC, Beeld en Geluid, Ilse Media, ThirdSight, EUVision

**Project budget CTIT:** 1.1 M-€ / 495 k-€ funding

**Number of person/years CTIT:** 3 fte/year

**Involved groups:** [Databases \(DB\)](#), [Human Media Interaction \(HMI\)](#)

**CTIT Strategic Research Orientations:** [Natural Interaction in Computer-mediated Environments](#)

### ***CTIT Newsletters***

In case you have input for the newsletter, about workshops, PhD defences or other events, please send the information to [Secretariaat-CTIT@utwente.nl](mailto:Secretariaat-CTIT@utwente.nl).