

## CTIT Newsletter – September 2013

---

### News



#### Joost-Pieter Katoen elected to Academia Europaea

Joost-Pieter Katoen has been elected as a member of the renowned Academia Europaea (Academy of Europe) <<http://www.acadeuro.org/>>, a European, non-governmental association founded in 1988. Its more than 2000 members are scientists and scholars who collectively aim to promote learning, education and research in Humanities, Letters and Sciences. Amongst the members are thirty-eight Nobel Laureates, several of whom were elected to the Academia before they received the prize.



**HORIZON 2020** will start per January 1, 2014. The first Calls are expected END OF 2013!!!

CTIT has opened an [Information site on HORIZON 2020](#), where relevant information for CTIT researchers will be published. It is accessible only to them (under "Internal Information").



#### 12 November 2013: Information Meeting on Horizon 2020

Please note this meeting in your agenda! A programme is not yet available, but we will inform you about it a.s.a.p. The information meeting will be held together with the national event "[Innovatie Estafette 2013](#)".

Location: RAI Amsterdam.



#### November 2013: ICT 2013 - Create, Connect, Grow / Focus on Horizon 2020 ICT

On 6-8 November 2013: [ICT 2013 - Create, Connect, Grow](#) will be held. The ICT programme of Horizon 2020 will be launched there. The Conference is organized by the European Commission. Key note speeches from a.o. Neelie Kroes, European Commissioner for Digital Agenda.

Location: Vilnius, Lithuania.



### October 31, 2013: Ceremony Dutch Award for ICT Research 2013

CTIT researcher Marieke Huisman (EWI/FMT) acquired the prestigious national [ICT Award 2013](#)! (Koninklijke Hollandse Maatschappij der Wetenschappen). The Award is accompanied with a grant of €50.000,00. Marieke Huisman leads a team working on the reliability and correctness of parallel software (article in Dutch). The [Ceremony](#) will be held on October 31, 2013, starting at 2.00 PM, location: Hodshon Huis, Haarlem.

# CTIT

---

### [Stimulating research group's activities](#)

CTIT intends to stimulate several research group's activities. A special budget has been reserved for this (information in Dutch).

### Information Meeting

On September 20, 2013, an [information meeting](#) will be held on the next round of the "Vernieuwingsimpuls". It is meant for researchers that intend to submit a proposal (information in Dutch).



### Annual STW Congress 2013

On October 3, the [annual STW Congress](#) will be held. Theme is Fresh Tech (information in Dutch).

Location: Nieuwegein's Business Center, Nieuwegein.



### Travel grants Prins Bernhard Cultuurfonds

The Prins Bernhard Cultuurfonds offers possibilities to acquire [travel grants](#) for a longer stay abroad at research institutes/universities.



### [Cooperative programme STW/NWO on Embedded Systems](#)

STW and NWO have made a budget of 2.5 M-€ available within the Roadmap HTSM Embedded Systems. Opening Call is on **June 25, 2013**.

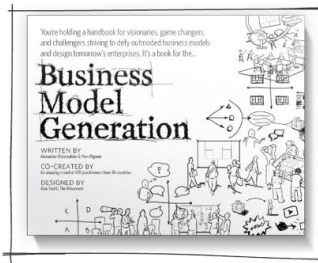




Zin'inZin

### New storytelling training for PhDs

Researchers work very hard to obtain good results and new insights. How they **communicate** these results strongly determines the **impact** of their work. Good communication requires thorough preparation: building a **clear and convincing story** from **complex content** is not easy. Students from **eleven different UT research groups** have already participated in this [training](#). On 28 October – 1 November the [next course](#) will take place.



### [Seminar BUSINESS MODEL DESIGN & INNOVATION](#)

University of Twente, Friday October 11<sup>th</sup>, 9.45-12.15, Campus, Spiegel 2

*Prof. dr. Pigneur, co-author of Business Model Generation: A Handbook for Visionaries, Game Changers, and Challengers by Alexander Osterwalder and Yves Pigneur*

You may have heard of the Business Model Canvas or you may even apply the Canvas in your projects. This is your chance to attend a seminar by the co-creator, listen to his latest views on business modeling and exchange ideas on applying Business Modeling in practice.

The seminar aims at presenting the Business Model Canvas for designing, assessing and challenging business models. Business model innovation and industry changes will be illustrated with examples such as airBnB, Grameen Phone and SunEdison. Design thinking attitude and customer centricity will also be emphasized for exploring, prototyping and testing business models. Furthermore, business model mechanics, economics and layering will be shortly presented and illustrated. For more information and registration:

<http://www.utwente.nl/mb/iebis/newsevents/2013-10-11-BusinessModeling.docx/>

## Agenda

- September 20, 2013: Information meeting “[Vernieuwingsimpuls](#)”. Location: NWO-building, Den Haag
- October 10, 2013: [Kenniscongres Europa](#): Een brug naar Horizon 2020: Verkeers- en vervoersprojecten in Europa. Location: Stayokay, Soest
- October 31, 2013: Ceremony ICT Award Marieke Huisman
- November 6-8, 2013: [ICT 2013 - Create, Connect, Grow](#). Location: Vilnius, Lithuania
- November 11-15, 2013: [ICT with Industry](#). Location: Lorentz Centre Leiden
- November 12, 2013: [Innovatie Estafette 2013](#). Location: RAI Amsterdam
- November 12, 2013: [Information Meeting Horizon 2020](#). Location: RAI Amsterdam (information to be provided)
- November 25 – December 1, 2013: [European Robotics Week](#). Several locations.

## CTIT Newsletter – September 2013

---

### PhD defences

September 12, 2013:	<b>Iwan de Kok</b> (EWI/HMI): ‘Listening Heads’
September 13, 2013:	<b>Guido Ongena</b> (GW/MCO): ‘A consumer perspective on moving images: The design and adoption of public audiovisual heritage services in the Netherlands’
September 13, 2013:	<b>Mark Timmer</b> (EWI/FMT): ‘Efficient modelling, generation and analysis of Markov Automata’
September 18, 2013:	<b>Maurizio Burla</b> (EWI/TE): ‘Advanced Optical Beamforming Networks for Broadband Phased Array Antenna Systems’
September 18, 2013:	<b>Sabrina Sauer</b> (MB/STePHS): ‘User innovativeness in Living Laboratories - Everyday user improvisations with ICTs as a source of innovation’
September 19, 2013:	<b>Alireza Zarghami</b> (EWI/ISSE): ‘Architectural Support for Dynamic Homecare Service Provisioning’
September 25, 2013:	<b>Milad Darvishi</b> (EWI/ICD): ‘Design of Active N-path filters: Theory and Design’
October 9, 2013:	<b>Karel Walters</b> (EWI/CAES): ‘Versatile Architectures For Onboard Payload Signal Processing’
October 24, 2013:	<b>Edson Aoki</b> (EWI/HS): ‘Characterization of uncertainty in Bayesian estimation using Sequential Monte Carlo methods’
October 25, 2013:	<b>Mélanie Bocquel</b> (EWI/HS): ‘Random Finite Sets in Multi-target Tracking - Efficient Sequential MCMC implementation’
November 1, 2013:	<b>Rezwan Huq</b> (EWI/DB): ‘Inference-based Framework Managing Data Provenance’
November 8, 2013:	<b>Roelof Timens</b> (EWI/TE): ‘Electromagnetic Interference of Equipment in Power Supply Networks’
November 21, 2013:	<b>Peter Hulshof</b> (EWI/SOR): ‘Integrated Decision Making in Healthcare - An Operations Research and Management Science Approach’
November 22, 2013:	<b>Egbert van der Veen</b> (EWI/SOR): ‘Personnel Preferences in Personnel Planning and Scheduling’

### Information on research funding programs



#### Calls Horizon 2020

CTIT has received a preliminary indication that the first Call of Horizon 2020 will be published around December 11, 2013. Deadline will be in the spring of 2014. For 2014, there will be only this Call! The second Call will be for 2015. Please find some more indication on expected topics at our internal website: <http://www.utwente.nl/ctit/internal/research-programmes/eu/horizon2020/calls.docx/> (only accessible to UT-employees).



### Statement from the ERC Scientific Council

(source: [ERC Website](#))

As the EU's Seventh Research Framework Programme (FP7) will finish at the end of this year, the main ERC calls for proposals within FP7 are now closed. The next ERC calls will be made under the future programme, 'Horizon 2020', that will take over from FP7 for 2014 to 2020.

The ERC Scientific Council has discussed the issue and, based on the current state of play, it can provide the following possible scenario on a purely indicative basis:

- Publication of the provisional schedule for the new calls (ERC Work Programme 2014), late in 2013;
- Opening and submission deadlines of new ERC calls throughout 2014:
- Starting grants; first and second quarter of 2014
- Consolidator grants; second quarter of 2014
- Advanced grants; fourth quarter of 2014
- No further calls for Synergy grants in 2013 and 2014;
- Normal schedule for Proof of Concept grants (one call with two deadlines in 2014).

Although no final decision has yet been taken by the EU, the ERC Scientific Council provides, without any commitment, this provisional information for the convenience of the scientific community.

The ERC will do its utmost to make the transition as smooth as possible and provide the necessary continuity for the research community.



### Cooperative research programme STW-EW Embedded Systems

STW and NWO have opened a Call on [Embedded Systems](#), within the framework of the Topsector HTSM. The budget amounts to 2.5 M-€. There is no concrete deadline.

### NWO-Vidi



The Call for Proposals [NWO-Vidi](#) has been opened. It is meant for more senior researchers with several years experience as postdoc.

Deadline: October 3, 2013, 14.59 hrs.

### Upcoming deadlines

Continuously:

- NWO [Aspasia](#) (Female researchers in science / by nomination) (*information in Dutch*)

## CTIT Newsletter – September 2013

---

- [STW Open Technology Programme](#) (*information in Dutch*)
- [Free Competition Humanities](#) (*information in Dutch*)
- *N.B. Free Competition Exact Sciences is closed!*
- [Cooperative research programme STW-EW Embedded Systems](#)

### September:

- 18-9-2013: 2<sup>nd</sup> Call for the [Joint Programme Initiative Urban Europe](#)
- 24-9-2013: [Eureka/Euripides Call](#) (R&D programme dedicated to interconnection, packaging, miniaturisation of electronic systems or devices, silicon sensors and integration of all electronic systems)
- 30-9-2013: The [NWO Top Grant](#) Social & Behavioural Sciences, Research proposals.

### October

- 01-10-2013: [STW Valorization Grant, Phase 1](#)
- 01-10-2013: [STW Valorization Grant, Phase 2](#)
- 03-10-2013: [Call for proposals for ERC Proof of Concept](#) (Final)
- 03-10-2013: [NWO-Vidi](#)
- 10-10-2013: [NWO Data Science: ICT Industrial Partnership Programme](#) (full proposal)
- 14-10-2013: [Celtic Plus Autumn Call](#)
- 18-10-2013: [Marie Curie Career Integration Grants](#)
- 31-10-2013: [ITEA2](#) full proposals
- 31-10-2013: [NWO Indo Dutch Science Industry Collaboration: Preparatory Grant](#)
- 31-10-2013: [NWO Indo Dutch Science Industry Collaboration: Research Grant](#) – Full Proposal

### December:

- 01-12-2013: [NWO Incidental Support](#) for researchers (*information in Dutch*)
- 05-12-2013: [NWO Indo Dutch Science Industry Collaboration: Research Grant](#) – Letter of Intent
- 10-12-2013: ICT Call (o.a. Pervasive and Trusted Network and Service Infrastructures)

### January 2014:

- 28-01-2014: [Data Science: Kennis – Innovatie Mapping MKB projects](#) (KIEM)

### Spring 2014:

- [First Call Horizon 2020](#) (*information only accessible to UT-employees*).

### [FP7/ICT Workprogramme 2013](#)

We will keep our [website](#) updated with the latest news; you may always contact us for information ([Wilma Hiddink](#), a.o. for NEF and GPFs (A2.5 forms for Grant Preparation)).

## Projects

### DUPLO

#### Full-Duplex Radios for Local Access

Project Number: 316369

Project Manager: Prof.dr.ir. Bram Nauta

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

Tel.: +31-53-4892655

Email: [b.nauta@utwente.nl](mailto:b.nauta@utwente.nl)

Project website: <http://www.fp7-duplo.eu/>



#### Summary

Future development of wireless communications networks will require radical improvements over the existing radio transmission and network solutions to support tremendous growth of data traffic in future networks in an energy-efficient manner.

The project Full-Duplex Radios for Local Access (DUPLO) aims at developing new technology and system solutions for future generations of mobile data networks by introducing a new full-duplex radio transmission paradigm, the same carrier frequency is used for transmission and reception at the same time. The approach holds the potential to significantly increase the capacity, and will focus on energy efficient solutions which also enable a more flexible use of the spectrum.

DUPLO will study and develop technical solutions for efficient self-interference cancellation in wireless transceiver to enable usage of full-duplex transmission in different nodes of the wireless communications networks, including access points, devices and relay nodes. Attainable gains of full-duplex transmission and required system level solutions to accommodate the new transmission mode in wireless communications networks will be investigated. The main focus will be in small radio cell operation environment. Novel solutions for antenna, RF and baseband domain self-interference cancellation will be analysed and developed. The most promising concepts will be implemented in a test hardware circuitry. A proof-of-concept test platform will integrate the developed technical solutions together into functional full-duplex communication system, which can be used in testing and further development of novel solutions.

**Project duration:** 1 October 2012 / 31 March 2015

**Project budget:** 4.7 M-€ / 3.3 M-€ funding

**Number of person/months:** 366 person months

**Project Coordinator:** Renesas Mobile Europe

**Participants:** Renesas Mobile Europe, University of Oulu, TTI NORTE, IMEC, UT, University of Surrey, Thales Communications & Security,

**Project budget CTIT:** 514 k-€ / 391.5 k-€ funding

## CTIT Newsletter – September 2013

---

**Number of person/years CTIT:** 39 person months

**Involved groups:** [Integrated Circuit Design \(ICD\)](#)

**CTIT Strategic Research Orientations:** [Wireless and Sensor Systems](#)

### FLAMINGO

#### Management of the Future Internet

Project Number: 318488

Project Manager: Dr.ir. [Aiko Pras](#)

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

Tel.: +31-53-4893778

Email: [a.pras@utwente.nl](mailto:a.pras@utwente.nl)

Project website: [FLAMINGO](#)



#### Summary

The goals of FLAMINGO are (a) to strongly integrate the research of leading European research groups in the area of network and service management, (b) to strengthen the European and worldwide research in this area, and (c) to bridge the gap between scientific research and industrial application. To achieve these goals, FLAMINGO performs a broad range of activities, such as to develop open source software, establish joint labs, exchange researchers, jointly supervise Ph.D. students, develop educational and training material, interact with academia and industry, organize event, and strongly contribute to (IETF and IRTF) standardization. FLAMINGO develops a joint program of research activities to contribute to the development of network management and operation frameworks for the Future Internet (FI). Three major and federating challenges will be investigated:

1. Network and service monitoring, based on flow-based techniques, enabling scalable monitoring systems to share collected data and feed the knowledge plane and decision algorithms of the FI.
2. Automated configuration and repair, based on self-\* features and frameworks, enabling billions of devices and managed objects to manage themselves in a fully distributed and autonomic way.
3. Economic, legal, and regulative constraints, which do border management systems and operational solutions of the FI.

FLAMINGO provides a unique consortium of leading researchers, with complementary knowledge and strong ties to industry, and covering the entire spectrum of network management core functions and application domains, which are necessary to build, integrate, and disseminate the knowledge of the management plane for the FI. FLAMINGO will strongly impact the European development of network management technologies, the development of standards and open-source software in this area, the organization of interoperability and testing labs, and the training of current and the education of future researchers in this area.

**Project duration:** 1-11-2012 / 1-11-2016

**Project budget:** 4 M-€ / 3 M-€ funding

**Number of person/months:** 402 person months

**Project Coordinator:** University of Twente / CTIT

---



## CTIT Newsletter – September 2013

---

**Participants:** UT, INRIA/LORIA, Universität Zürich, Jacobs University Bremen, Universität der Bundeswehr München, Universitat Politecnica de Catalunya, Interdisciplinary Institute for Broadband Technology, University College London

**Project budget CTIT:** 675 k-€ / 554 k-€ funding

**Number of person/years CTIT:** 58 person months

**Involved groups:** [Design and Analysis of Communication Systems \(DACS\)](#)

**CTIT Strategic Research Orientations:** [Dependable Systems and Networks](#) / [Integrated Security and Privacy in a Networked World](#)

### *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).