

## EIRICT Newsletter

2013-06

Dear all,

With this newsletter we present you an update of the EIRICT state of affairs and plans.

### 1. Projects and Calls

- FP7, call 10: TU/e was present in call 10 in 49 proposals, of which in 6 as coordinator. 8 proposals will be funded. TU/e is not the coordinator in any of these. A total of 3M€ (11% of what was requested) was allocated.
- FP7, call 11: TU/e was present with 24 proposals, of which in 5 as coordinator. A total amount of 10.4 M€ requested. Results are expected in July.
- Artemis (JU), call 2013: This call is open until June 6. Two types of proposals can be submitted, large-scale pilot projects and (still fairly large) regular projects. We expect that in the Netherlands at least one pilot project will be granted and additionally at most one regular project. EIRICT researchers are present in both proposed pilot projects and in the most promising regular projects. The little table below gives the involvement of TU/e, with contributions from the departments of W&I, IE&IS and EE.

Project Acronym	Project Title	Lead Party
ICC	Innovative Care Cycles	Philips Healthcare
EMC <sup>2</sup>	Embedded multi-core systems for mixed criticality applications in dynamic and changeable real-time environments	Infineon
DEWI	Dependable Embedded Wireless Infrastructure	EADS & AVL
ES4ICS	Embedded Systems for Increasing CyberSecurity	TNO
Crystal Bulb	Multi facet analysis and design of embedded systems	Magillem Design Services

- The ITEA2 call for project outlines closed May 24. As this phase is very preliminary we just give numbers; we know of nine PO's with EIRICT partners. Later, we hope to obtain a more detailed overview. On 28 June, the PO's that have been selected for preparing a FPP, will be announced. The deadline for FPP's is on 31 October 2013.
- ENIAC (JU) had two calls in 2013. The deadline for the PO's of both calls was 23 May. We don't know yet of PO proposals with involvement of EIRICT researchers. The deadline for the submission of PO's for the 2013 call of CATRENE closed on 2 April 2013. The deadline for submission of FPP's is 12 September. The table summarizes the involvement of TU/e in CATRENE proposals. For further information contact Jan Haagh ([J.P.N.Haagh@tue.nl](mailto:J.P.N.Haagh@tue.nl)).

Project Acronym	Project Title	Lead Party
GREETING16	GREEN computING Horizon 2016	ST Microelectronics
Hyperthermia	Hyperthermia	Caiaac (Spain; <a href="http://caiaac.uab.cat">http://caiaac.uab.cat</a> )
CORTIF	Coexistence Of RF Transmission in the Future	NXP France

- For 2013, the Dutch government has allocated 40M in total for EUREKA and JUs together. For 2014, this will be likely the same amount, but potentially with a different division over these programmes.
- Remaining open calls in FP7 can be found at: [http://ec.europa.eu/research/participants/portal/page/call\\_FP7#wlp\\_call\\_FP7](http://ec.europa.eu/research/participants/portal/page/call_FP7#wlp_call_FP7)
- The EIT ICT Labs call for the work program 2014 is now under evaluation. As of 2013 we have worked in a different way with EIT ICT Labs by having TU/e representatives for Action Lines. For 2014, the budget has been extended and activities are to be larger. In addition, the outcome has to be more specific and better documented. Starting academic year 2012/2013, two EIT ICT Labs master programmes (EIT-Embedded Systems and EIT-Service Design and Engineering) have started with currently 10 students. Currently we are discussing the start of a EIT Doctoral School in which PhD students follow additional courses and have an exchange with another co-location center.

## 2. National: STW programmes and the topsectors

The combined roadmaps of HTSM and other topsectors represent an amount next to the common budgets of NWO and STW. Therefore, there is an increasing amount of co-financing within the STW programmes. Currently, the situation concerning STW- and topsector calls and co-funding is as follows:

- The Open Technology Programme in STW is always open. It has a 'mild' co-finance regime, mainly resting on in-kind contributions of industrial partners. With the recent change in funding of the Holst Centre and the Embedded Systems Institute, two segments within OTP have been allocated to the research areas of Holst and ESI (say, wireless sensors and flexible electronics, and Embedded Systems in the small and in the large). OTP calls for these segments will open soon. There will be no separate ranking for proposals in these segments: the ranking will be done together with all other proposals in the OTP in a given evaluation period.
- The 'Perspectief programme' consisting of a coherent collection of proposals to advance a scientific domain. Co-funding by industrial partners is required to be 25% in cash and 35% in total. It is expected that a call for Perspectief will open again in October, so this is the time to prepare a consortium.
- Under similar conditions, calls on topsector roadmaps are issued. Currently, the HTSM general call is open (until June 4).
- Discussions about specific roadmaps within topsectors are ongoing and I will inform you when I have more details. Currently, the roadmaps on *water technology*, and on *high tech materials* have an open call. These calls require co-funding in cash of 50%.
- Within Partnership, collaborative programmes are formulated around explicit research questions from companies. Hence a company is influential in the selection of the theme of a programme. The 'Partnership programme' requires a co-funding in cash of 50%; on the basis of the total funds an open call is issued on the industry-defined topic. That company also plays a role in the project selection procedure.
- A special programme (resembling a Partnership)– in which Rijkswaterstaat participates – is 'Maps4Society'. It is concerned with Geo information systems; expect a call to open after the summer.
- For further info consult:
  - a. <http://www.stw.nl/>

b. <http://www.htsm.nl/>

### 3. NIRICT – Center of Excellence (CoE) continuation and Human-Technology Interaction.

Within the 3TU.Federatie, the 'Bestuurscommissie Onderzoek' is reviewing the CoE's in the 3TU and taking initiatives, along with the Ministry of OCW to set up a number of new CoE's. Already for some time, NIRICT researchers have proposed a CoE on the domain of Human-Technology Interaction. In addition, NIRICT wants to protect the investment in the current CeDICT and ask for a relatively small funding for maintaining the CoE network. These two proposals have been pursued in the discussion. Although the process is slow and still under discussion, an annual budget of 200K for sustaining CeDICT and other activities is expected.

For setting up the HTI CoE proposal later this year, a team of four EIRICT researchers has been invited, viz., Wijnand IJsselsteijn (IE&IS), Paul de Bra (W&I), Berry Eggen (ID), and Chris Snijders (IE&IS). They cooperate on the shaping of this proposal with their colleagues from CTIT (UTwente) and DIRECT (TU-Delft).

### 4. EIRICT Special Interest Groups and Cyber-Physical Systems

As perhaps known from the kickoff meeting, we want to stimulate the internal TU/e collaboration on selected ICT topics. What we observe is that this sometimes happens spontaneously, in the form of centers or institutes (e.g. the Center for Wireless Technology/Eindhoven, or the Eindhoven Institute for the Protection of Systems and Information) ; for other topics we try to get the relevant people together in order to set up a form of collaboration. According to our agenda, the current year we intend to (support the) set up of two such themes:

- Cyber-Physical Systems
- Data Science

On April 26 we had a first lunch meeting, in which the (new) STW Perspectief project 'robust Cyber-Physical Systems' was presented. Johan Lukkien gave an introduction and Twan Basten and Maurice Heemels gave presentations. At the time of writing we still need to process the information and make it available.

On June 12 there is a mini-symposium in this context, at the occasion of the graduation of Martijn van den Heuvel, see the announcement at the end of the newsletter.

### 5. New ARTEMIS projects in EIRICT

Two projects from the ARTEMIS 2012 call, where TU/e is involved in, recently started with their kick-off events:

- CRYSTAL (CRITICAL sYSTEM engineering AcceLeration), which aims to make a step forward in quality and cost effectiveness of safety-critical embedded systems and architecture platforms. TU/e is involved in the part of CRYSTAL that focusses on healthcare systems development. Philips Healthcare is the coordinator of this part of CRYSTAL.
- ACCUS (Adaptive Cooperative Control in Urban (sub) Systems), studies converged scenarios that span across urban systems and defines a reference architecture for the integration of urban systems, based on semantic descriptions.

## 6. Visits faculty boards

We have visited most boards of the faculties participating within EIRICT, presented the plans for the current year and had valuable discussion. We come back to this later in the year.

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## 7. Meetings/Events

### **Mini-Symposium on resource sharing in embedded systems**

**Date:** Wednesday, June 12<sup>th</sup>, 2013  
**Location:** Building Auditorium, AUD-12 (TU/e)  
**Time:** 13:30 – 15:15

Many embedded systems, often controlling the physical world, run various applications that have to share the system's resources while still guaranteeing satisfactory performance. In this workshop, we aim at exchanging views and discussing challenges in the design of such systems.

We are happy to announce the following speakers and presentations in this workshop:

- 13.30-14.00: Offering Mixed-Criticality Virtual Execution Platforms in CompSOC  
[prof.dr. Kees G.W. Goossens](#), Eindhoven University of Technology, The Netherlands.
- 14.00-14.30: Synchronization in Hierarchically Scheduled Open Systems  
[prof.dr. Thomas Nolte](#), Mälardalen University, Sweden.
- 14.30-15.00: The Bandwidth Inheritance Protocol: Temporal Protection in Open Systems  
[dr. Giuseppe Lipari](#), Scuola Superiore Sant'Anna, Italy.

The program chair is prof.dr. Johan J. Lukkien. If you want to join, please send an email to [wsinsan@TUE.nl](mailto:wsinsan@TUE.nl) (secretariaat SAN – [EIRICT@tue.nl](mailto:EIRICT@tue.nl)).

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### **2013-06-04 - Internet of Things Event, 2<sup>nd</sup> Edition, at High Tech Campus, Eindhoven**

Op 4 June 2013 Syntens Innovatiecentrum and TNO jointly organize the SME-track of THE international Internet of Things seminar at the High Tech Campus in Eindhoven. For more information and registration, please consult <http://iotevent.eu/>.

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## **2013-06-06 - General Meeting of Holland Health Tech members**

On 6 June 2013, 13:30 – 19:00 PM, the General Meeting of Holland Health Tech members will be hosted by TU/e in the Laplace Building. For details about the programme of this meeting, please consult <http://eirict.win.tue.nl/Events.php> .

Kind regards,

Johan Lukkien  
Peter van Otterloo