

EIRICT Newsletter: 2014-04

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For more information, see also the [EIRICT website](#).



**Eindhoven Institute
for Research on ICT**

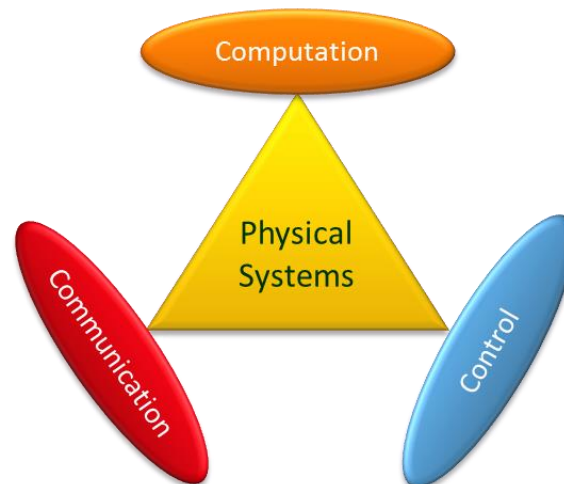
EIRICT CPS Symposium

Stimulating TU/e ICT communities through the organization of events is one of the objectives of EIRICT. Last year we had the opening symposium of the Data Science Center. Next is the EIRICT Symposium:

Cyber-Physical Systems: A Diverse Challenge

14 May 2014, 13.00 – 17.45

TU/e, Zwarte Doos – Filmzaal



Cyber-Physical Systems have emerged over the last decade and have become a growing field in technical science. It evolved from the realization that communication, computation and control become intertwined, penetrate the physical world and become a part of it. Today we see this evolution in several directions.

One direction is high-performance embedded control, as it occurs in high-tech systems. The demand for increasing technical abilities, fulfilled with the help of Moore's law, leads to complex engineering challenges. Removing the rigid boundaries between the fields of control, communication and computation yields more reliable and cheaper systems with more sophisticated capabilities.

Another direction is the Internet of Things, with an emphasis on unified protocols between any pair of devices, deeply embedded data gathering, and advanced, data-driven services.

Challenges within CPS include also the process: design flows must become more effective in predicting results at an early stage and guide the exploration of design alternatives, while spanning multiple engineering domains.

CPS has been a special interest group within EIRICT with a series of informal meetings. An STW perspectief programme has started from within this community and several other European initiatives

have started or are on their way. The TU/e community has strong connections with the high-tech industry in the region, but also with European institutions (e.g. EIT ICT Labs). This symposium is the first in a series and provides a podium for these collaborations. The topic: A **Diverse Challenge** is reflected in the program for this symposium, addressing the engineering process, the Internet of Things and complex control problems.

Symposium Program

13:00 – 13:30	Welcome and registration
13:30 – 13:45	Opening of the EIRICT Symposium CPS: A Diverse Challenge Johan Lukkien (TU/e, Director of EIRICT and Dept. of Math. and Comp.Science)
13:45 – 14:25	A Control Perspective on Cyber-Physical Systems Maurice Heemels (TU/e, Department of Mechanical Engineering)
14:25 – 15:05	Continuous Engineering in Cyber-Physical Systems Harald Rueß (Fortiss GmbH, Muenchen)
15:05 – 15:30	Break
15:30 – 16:00	CPS Challenge in Autonomous and Cooperative Driving Jeroen Ploeg, (TNO Technical Sciences and TU/e Dept. of Mech.Engin.)
16:00 – 16:30	The Internet of Light Dee Denteneer (Philips Research, Eindhoven)
16:30 – 17:00	Platform-Aware Embedded Control Dip Goswami (TU/e, Department of Electrical Engineering)
17:00 – 17:05	Closing the EIRICT Symposium Johan Lukkien (TU/e, Director of EIRICT and Dept. of Math. and Comp.Science)
17:05 – 17:45	Networking and Drinks

Registration for Participation

Participation is free of charge, but please register at [EIRICT-Symposium-CPS](#). The capacity of the Filmzaal is limited. Registrations will be handled on a first-come-first-serve basis and you will receive a confirmation of your registration.

Follow-up of the DSC/e launch.

DSC/e

On 9 April 2014, DSC/e organized a [workshop with industry partners](#) aimed at obtaining the input regarding DSC/e's options for education, research, and valorization.

This workshop marks one of the steps in the further development of DSC/e. In the [recent meeting of TU/e's Board of Management in Lanaken \(B\)](#), Data Science has been earmarked as one of the Strategic Innovation Areas of TU/e. Further elaboration of this SIA is underway. The [DSC/e website](#) will soon be updated with the latest developments.

New PPP on Big Data

On a European level, European Technology Platform for Software and Services NESSI, together with partners from the FP7 project Big, have drafted a [Strategic Research and Innovation Agenda \(SRIA\) on Big Data Value](#). This SRIA will be input to the European Partnership for Big Data Value (EP-BDV) in the process of the creation of a contractual Public Private Partnership (cPPP).

[NESSI announced](#) that the final draft SRIA Big Data Value is open for [public consultation](#) until 5 May 2014. More details and further background documents can be found on the [BigDataValue website](#), a joint initiative of NESSI and Big. Your opinions will be integrated in the final version of the SRIA and presented at the NESSI Summit 2014 on 27 May in Brussels ([register here](#)).

NWO

NWO-STW Open HTSM Call 2014

The [Open Call HTSM2014](#) is aiming to stimulate excellent scientific research within the Topsector "High Tech Systemen en Materialen" (HTSM) HTSM2014 is open for all project proposals that deliver a contribution to at least one of the 17 roadmaps in HTSM. [De roadmap ICT van HTSM](#) constitutes one of these roadmaps.

De Open HTSM Call 2014 has opened on 1 april 2014. The deadline for submission of proposals is 3 june 2014, 11:59 AM. Please check the [link for this call](#) on the STW website for further details and conditions.

ZonMW: AAL 2

The AAL Joint Programme is targeted towards the development of innovative, ICT-based solutions for the elderly and their environment, with the aim to improve the quality of life and to enable independent living as long as possible.

Marking the start of a new phase of this programme, AAL 2, a [first call for proposals, "Care for the Future"](#), has been published on 28 March 2014, and updated on 9 April. The [AAL weblink for this call](#) provides further information. In the Netherlands [the AAL programme is managed by the NWO organization ZonMw](#). The deadline for submission of proposals at EU level is 26 June 2014. The deadline for a subsequent proposal submission at national level will be in November 2014.

For the current call a subsidy budget of € 32.8 million is available. For Dutch participants, the subsidy budget is approximately € 2.3 million. The total cost of a project in AAL 2 ranges from € 1 million to € 7 million, with a maximum total subsidy of € 3 million. The total subsidy for a Dutch subconsortium in a project is € 500,000. In view of this limited subsidy level, the AAL call seems less appropriate for totally new proposals, but looks more suited for add-on proposals in the context of already running or granted activities, that are relevant in the context of the aims of AAL.

Swiss participation in EU programmes

Following the adaption by Swiss voters of a [referendum to limit immigration of EU citizens](#), the EU has responded by countermeasures. These also impact the possibility of Swiss companies and institutions to participate in European research and innovation programmes. A [Q&A to clarify the current situation](#) has been created by Euresearch, SwissCore, and the Swiss Federal Mission at the EU.

EUROSTARS (EUREKA)

The Eurostars programme (EUROSTARS) is aimed at the development of European entrepreneurship by supporting Research and Development projects, led by SME enterprises. EUROSTARS, which operates on a European scale under the Eureka umbrella, bundles national initiatives to support the development of new SME activity. Subject to a number of conditions, universities are able to participate in EUROSTARS projects.

In the context of the national arrangement for Eurostars projects, the Dutch Ministry of Economic Affairs has recently made available a budget of € 9.25 million. Applications can be submitted from 19 June till 1 July 2014.

For more information, please consult the [EUROSTARS website](#) and the pages on the [national programme for EUROSTARS](#) on the website of RvO.nl.

ECSEL, ARTEMIS, ENIAC and CATRENE

ECSEL JU - Electronic Components and Systems for European Leadership

As reported in the previous EIRICT Newsletter, the new ECSEL Joint Undertaking (JU) is a merger of the ARTEMIS embedded systems JTU and the ENIAC nanoelectronics JU, together with the European Technology Platform EPOSS (Smart Systems Integration).

[The European parliament has just given its approval](#) for a package of public-private and public-public research partnerships worth up to €22 billion. The ECSEL JU constitutes part of this package, which now goes to the European Council for final approval. The approval of the European Council, expected next month, will remove the last roadblock for the formal establishment of ECSEL.

Once ECSEL has been established, calls for proposals under the new ECSEL umbrella can be launched. This is why e.g. the ARTEMIS JU so far could only organize a pre-brokerage meeting (see below) rather than a full-blown brokerage meeting for the new call. The decision in the EU to establish ECSEL is expected soon though, which would enable new official calls for ARTEMIS and ENIAC still to run this year. It is not yet known whether this will lead to new brokerage meetings for these calls.

ARTEMIS Pre-Brokerage Event for expected call 2014

On February 4th&5th a Pre-Brokerage Meeting took place in Brussels. Some 27 new project initiatives were presented there. On 2013-02-10 the [observations from the ARTEMIS Pre-Brokerage meeting](#) were reported to the EIRICT community during an EIRICT lunch meeting. Currently, in 9 project initiatives participation is explored from various research groups in TU/e.

ARTEMIS (and ECSEL) have published several documents, describing the Strategic Innovation Agenda of the JU towards 2030. These documents will be useful when preparing proposals for ARTEMIS:

- [ARTEMISIA Vision 2030](#)
- [Embedded / Cyber-Physical Systems ARTEMIS Major Challenges: 2014-2020](#)
- [2014 MultiAnnual Strategic Research and Innovation Agenda for the ECSEL JU – Part A](#)
- [2014 MultiAnnual Strategic Research and Innovation Agenda for the ECSEL JU – Part C \(Embedded/CyberPhysical Systems\)](#)

A [presentation by Jan Lohstroh](#), secretary general of ARTEMIS-IA, provides further insight on the role and position of the ARTEMIS JU in the ECSEL JU.

In view of the progress towards the creation of the ECSEL JU (see above), it is expected that the launch of the first calls for project proposals under the ECSEL umbrella will be issued before the summer of this year.

AENEAS/CATRENE Brokerage Event for expected call 2014

As we reported in the previous EIRICT Newsletter, 2014-01, the joint AENEAS/CATRENE Brokerage Event for the prospective calls of 2014 for the programs of the the [JU ENIAC](#), also part of the JU ECSEL, and [Eureka Cluster Program CATRENE](#) was held this year back-to-back with the ARTEMIS Pre-Brokerage Event (5 & 6 February 2014). Observations on this [AENEAS/CATRENE Brokerage Event](#) have been reported by [Jan Haagh](#). While the call for the ENIAC programme more or less follows the timeline for the other programmes under the ECSEL umbrella (ARTEMIS, EPoSS), the time window for the submission of proposals for CATRENE Call 7 has just ended on 5 April 2014.

ITEA

ITEA 2 Call 8 (2013)

In March the Dutch sub-consortia that received a label for their Full Project Proposal in the ITEA 2 Call 8 (2013) have been requested by RVO.nl to submit their national proposals. In 6 of the 12 labeled projects in the Netherlands, there is participation from TU/e (CLIMWELL, M2MGrids, iCityServices, INSIST, DART and APPS). Last week, the defense meetings for the submitted proposals took place. APPS and

M2MGrids (60% of the requested funding) belong to the selected projects. At the time of writing, one of the projects that has been selected by RvO.nl has not yet been identified.

ITEA 3

[ITEA 3](#), the EUREKA Cluster for Software-Intensive Systems and Services (SSIS), which starts in 2014, is now taking shape. On 23 April ITEA 3 is organizing a [kick-off event in Vienna](#), followed by similar events in [Korea](#) and Turkey.

Call 1 for this new ITEA program has been announced and will formally open on 23 September 2014. In the first phase of the call process, Project Outlines (PO's) need to be prepared and submitted. Deadline for the PO's is 31 October 2014 (17:00 PM CET). Proposers of PO's of sufficient quality will be invited to submit a full proposal, with a deadline by Mid-February 2015. An [overview of the ITEA 3 call process](#) can be found on the [ITEA 3 website](#).

A [brokerage event for ITEA 3 Call 1](#), the "PO Preparation Days", will be held in Amsterdam on 23-24 September. Save the dates and join this event that will give you the excellent opportunity to launch your project ideas and to find partners for your consortium. We will visit this event. Please contact us if you want to discuss ideas or want to have help with creating or joining a consortium.

Horizon 2020 – New call info and support

New H2020 Call info

Various useful links to information about H2020 calls have been published in the [previous EIRICT Newsletter](#). As indicated there, the core H2020 program is organized in 3 pillars:

- Excellent Science
- Competitive Industries
- Societal Challenges

Within each pillar, several themes have been defined, and within each theme a number of calls will be published. In principle, a call is open when the definitive call text gets officially published. For the 2014-2015 period, over 100 calls were published on 11 December 2013. Some of these calls even have already closed. But most are still open. Please refer to the [H2020 Participant Portal](#) for all information on these calls, including call texts, budgets and deadlines. The H2020 Participant Portal also supports a search engine to enable you to quickly zoom in on the calls that deal with your topics of interest.

In cooperation with Topsector HTSM, [RvO.nl has analyzed and published](#), for each of the 17 Roadmaps of this Topsector (including the ICT Roadmap), the opportunities for research and innovation in the H2020 calls of 2014 and 2015 (in Dutch).

DG Connect of the EC has published a [guide to ICT-related topics](#) in the 2014 and 2015 calls of H2020.

Up to date info on open H2020 calls.

Euresearch, the Swiss National Contact Point for education-, research- and innovation programs, also provides a [website with a continuously updated overview of currently open H2020 calls](#) in the various

H2020 Pillars and Themes. Each call identifier has a link to the webpage of that call in the H2020 Participant Portal (where detailed call information can be found), plus publication date and deadline. We advise you to always consult this Euresearch website for an up to date overview of currently open H2020 calls. This website also provides an up-to-date overview of [Expected Calls](#) (not yet published/open) and [Past Calls](#) in H2020. Whenever it is stated on the Euresearch website that you should contact the National Contact Point (NCP) for further information, you should of course contact [RvO.nl](#) ([Ramon Rentmeester](#) or [Bert van Werkhoven](#)) instead of Euresearch.

The recently published handbook by Dr. Seán McCarthy on preparing a successful H2020 proposal, entitled "[How to Write a Competitive Proposal for Horizon 2020](#)" is still available for TU/e employees from [Karoline Duijvesz](#) of the TU/e Innovation Lab at the discounted price of € 50. Ordering can be accomplished by sending an e-mail, specifying the number of copies and a budget number (kostenplaats).

A [presentation with instructions](#) given to evaluators of H2020 proposals provides useful insights, both on the criteria used for proposals and on the process of evaluation.

H2020 Secure Societies

On 1 April, an information day was organized in Brussels in the context of the first calls in H2020 Societal Challenges program Secure Societies (Challenge 7). One of the open calls is:

- [H2020-DS-2014](#): **Digital Security: Cybersecurity, Privacy and Trust** (available budget € 47.04 million).

Information presentations about these calls, as well as various project initiatives have been published on the [website of the Research Executive Agency](#) of the EC, where all details and presentations can be found. The submission of proposals to these calls is **open** with the **deadline of 28 August 2014**.

European Technology Platform for High-Performance Computing (ETP4HPC)

The ETP4HPC, a PPP on HPC, organized an infoday on 9 April 2014 in Paris. The ETP4HPC website provides a [report on this venue](#), including a [link to all presentations](#).

EIT ICT Labs



Partner Event 2014 - Create For Value

The EIT ICT Labs Partner Event 2014 was held in Berlin on April 9-10 and had gathered some 400 participants. A new element in the EIT ICT Activity plan of 2015 will be the "High Impact Initiatives", which are outlined in the [Strategic Innovation Agenda 2014-2016](#)¹ of EIT ICT Labs and on the [Call for Proposal 2015 web page](#)². On the April 10th, workshops were held for each of the innovation-oriented Action Lines or EIT ICT Labs, which were continued on April 11th. From TU/e a number of proposals for activities were submitted, which had been prepared through prior contacts with prospective partners and alignment with the Action Line leaders. Activity Proposals were presented in the Action Lines Smart Spaces, Cyber-Physical Systems and Health and Wellbeing.

Preparing for activities in EIT ICT Labs in 2015

Currently, the preparation and submission phase for Activity Proposals is fully running. All details and the necessary electronic forms for creating and submitting an Activity Proposal can be found on the [Call for Proposal 2015 web page](#) of EIT ICT Labs. If you do not wish to propose an Activity in an Action Line yourself, but would like to contribute to one with a certain task, you should contact the contact person of that Activity.

If you want an overview of the current Activity Proposals in the various action lines, you need to have access to the Plaza of the action line. While being logged in to the Intranet of EIT ICT Labs, you will find instructions on how to gain access [on this link](#). The intranet site also contains an overview of [key dates for the 2015 call process](#). The submission deadline for activity proposals and offers for contribution May 16, 6.00 PM CET.

Important Note.

Since submitting a proposal for an Activity or a Task means making a commitment on behalf of TU/e to EIT ICT Labs, you have to have your proposal checked by the financial officers of your department before submitting a proposal. Once you have the OK from your department to submit your proposal, please [mail it to Johan Lukkien](#), who will keep track of the commitments that TU/e makes to EIT ICT Labs in this call process.

¹ In order to access this document, you need to have access to the Intranet of EIT ICT Labs. This can be applied for by sending a mail to office@ictlabs.eu or by contacting phone: +31880009333.

² For accessing this web page you also need access to the Intranet of EIT ICT Labs.

EIT ICT Labs Idea Challenge.

EIT ICT Labs has recently issued an [Idea Challenge for start-ups](#) in 8 different domains. The call window for the first 4 domains (categories Health & Wellbeing, Smart Spaces, Cyber-Physical Systems and Future Cloud) has just ended. The call window for the next 4 domains (Cyber Security and Privacy, Internet of Things, Urban Life and Mobility and Smart Energy Systems) runs from 1 September till 30 September 2014.

New & open Calls

NWO & STW

1. [NWO call on Creative Industry \(Knowledge Innovation Mapping – KIEM\)](#) (Opening date: 1 January 2014; Closing date: 1 November 2014)
2. [STW call on Embedded Systems](#) (Opening date: 25 June 2013; ongoing call; see info above)
3. [STW Open Technology Programme](#) (continuously open call)
4. De [Open HTSM Call 2014](#) has opened on 1 april 2014. The deadline for submission of proposals is 3 juni 2014, 11:59 AM.

AAL 2

The [first call for proposals in AAL 2, “Care for the Future”](#), was published on 28 March 2014, and updated on 9 April (see above). The deadline for submission of proposals at EU level is 26 June 2014. The deadline for a subsequent proposal submission at national level will be in November 2014.

H2020

Many calls in the 2014-2015 programme of H2020 are still open. Please consult the [continuously updated overview](#) provided by Euresearch, as mentioned above.

EUROSTARS

Applications for the Eurostars Programme (R&D with SME's, see above) can be submitted 19 June till 1 July 2014. For more information, please consult the [EUROSTARS website](#) and the pages on the [national programme for EUROSTARS](#) on the website of RvO.nl.

EIT ICT Labs

On 9 April 2014, the [2015 Call for Activities](#)³ of EIT ICT Labs opened (see above). Deadline for submission of proposals is 16 May 2014.

The [EIT ICT Labs Idea Challenge](#) (see above) for start-ups in the domains Cyber Security and Privacy, Internet of Things, Urban Life and Mobility and Smart Energy Systems runs from 1 September till 30 September 2014.

Upcoming Events (partly taken from EIRICT site)

23 April 2014

ITEA 3 Kick-off Austria

Vienna, Austria

<https://itea3.org/itea3-kick-off-austria/itea-3-kick-off-austria.html>

7 - 8 mei 2014

High-Tech Systems

's-Hertogenbosch

<http://www.hightechsystems.nl/>

14 May 2014, 13.00 – 17.45 PM

EIRICT Symposium Cyber-Physical Systems: A Diverse Challenge

TU/e, Zwarte Doos (Filmzaal)

[EIRICT-Symposium-CPS](#)

27 May 2014

NESSI Summit 2014

Brussels

http://www.nessi-europe.com/default.aspx?Page=nessi_summit_2014

³ For accessing this web page you also need access to the Intranet of EIT ICT Labs

10-12 June 2014

ICCS-2014 International Conference on Computational Science
Cairns, Queensland, Australia

www.iccs2014.ivec.org

10-12 September 2014

SAFECOMP 2014

Firenze, Italy

www.safecomp2014.unifit.it

23-24 September 2014

Project Outline Preparation Days, ITEA 3, Call 1 (2014)

Amsterdam

<https://itea3.org/call-process.html>

Johan Lukkien

Peter van Otterloo