



Report on Deliverable Number 5.1
Communication Material for Period 1

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Publishable abstract		The deliverable D5.1 presents the communication material produced to support CHIST-ERA activities, and in particular its calls for research proposals, during the period 1/12/2017-30/11/2018		
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Introduction

This deliverable gathers the main communication materials produced to support CHIST-ERA activities, in particular the Call 2017 and the Call 2018 in the broader sense: From the call topic definition to the funded projects follow-up activities.

The activities of CHIST-ERA are structured around the yearly call cycle. In the period corresponding to this deliverable, 1/12/2018-30/11/2019:

- The Call 2017 was launched (October 2017)
- The Projects Seminar 2018 was organised in Paris (April 2018)
- The topics of the Call 2018 were selected and then refined at the CHIST-ERA Conference 2018 (January 2018 and June 2018)
- The Call 2018 was launched (October 2018)

These events, to be successful, need to attract external people: the researchers for the CHIST-ERA call, scientific experts for defining the call topics or the funded project researchers to exchange at the Projects Seminar.

Additionally the deliverable point toward URL links with the presentations of these events and information about the funded projects as well as funded topics. These presentations are public and contribute to the broader communication of CHIST-ERA:

- <http://www.chistera.eu/call-2017-announcement> (October 2017)
- <http://www.chistera.eu/projects-seminar-2018-paris> (April 2018)
- <http://conference2018.chistera.eu/> (June 2018)
- <http://www.chistera.eu/call-2018-announcement> (October 2018)
- <http://www.chistera.eu/projects-call-2017> (October 2018)
- <http://www.chistera.eu/funded-projects>
- <http://www.chistera.eu/funded-topics>

The general presentation of CHIST-ERA can be reached at <http://www.chistera.eu/>. In particular the webpage dedicated to the Scientific Advisory Board has been updated:

- <http://www.chistera.eu/scientific-advisory-board>

Annexes

CHIST-ERA Call 2017

Communication Plan

Transnational level (CHIST-ERA Joint Secretariat)

Overall timeline

18/09/2017	Initial pre-announcement put online on the CHIST-ERA web site
06/10/2017	Pre-announcement updated to reflect new information on participation for two RFOs (FWF and GSRT)
13-18/10/2017	Mailing to the research communities about the pre-announcement
27/10/2017	Pre-announcement updated to reflect new information on participation for one RFO (GRST)
31/10/2017	Publication of Call Announcement and mailing to the research communities

Actions

- Publication on the CHIST-ERA web site (www.chistera.eu/call-2017-pre-announcement then www.chistera.eu/call-2017-announcement)
- Preparation of the CHIST-ERA Call 2017 leaflet (for the Call Announcement)
- Mailing to the CHIST-ERA community, i.e. experts (applicants, reviewers) from past calls and website newsletter subscribers (for the pre-announcement and for the call announcement; cf. message content below) + submission website on-line
- Information to ERA-LEARN for inclusion on their joint calls calendar (<https://www.era-learn.eu/network-information/call-calendar>)
- FET Newsletter (http://ec.europa.eu/newsroom/dae/newsletter-specific-archive-issue.cfm?newsletter_service_id=129)
- Mailing to relevant communities
 - Topic ORMR
 - euRobotics: secretariat@eu-robotics.net
 - SPARC Robotics: secretariat@sparc-robotics.net
 - RoboCom++: secretariat@robocomplusplus.eu
 - Topic BDSI
 - EFFRA (European Factories of the Future Research Association): info@effra.eu
- Article within the Cordis Portal: https://cordis.europa.eu/news/rcn/141863_en.html?WT.mc_id=email-Notification

Participating Funding Organisations

(AT) FWF

- Website of FWF <http://www.fwf.ac.at/en/about-the-fwf/international-activities/multilateral-activities/chist-era/>
- FWF Newsletter

(BE) FNRS

- Website of F.R.S.-FNRS: <http://www.ncp.fnrs.be/index.php/17-appels/220-fnrs-eligibility-criteria-chist-era-call-2017>
- Mailing to research administration units of all French Community Universities

(BG) BNSF

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(CA) FRQNT

- Website of FRQNT: <http://www.frqnt.gouv.qc.ca/en/espace-presse/nouvelles-et-communiqués/nouvelle/pre-announcement-8th-call-of-the-chist-era-era-net-xnbd2upd1506347996871>
- Mailing to the FRQNT community following the Call Announcement publication

(CH) SNSF

- Website of the SNSF: <http://www.snf.ch/en/researchinFocus/newsroom/Pages/news-171004-chist-era-call-announcement-2017.aspx>
- Mailing-list of SIRA (non-profit association with the goals of fostering national and international collaboration within the ICT research community and of promoting the visibility and recognition of research and advanced education in ICT and its related fields performed in Switzerland), <http://www.s-i.ch/fachgruppen-und-sektionen/sira/>
- Website of Euresearch (Swiss network mandated by the State Secretariat for Education, Research and Innovation providing targeted information, hands-on advice and transnational partnering related to European research and innovation programmes) <https://www.euresearch.ch/en/>

(CZ) TACR

- Website of TACR (in Czech)
<https://tacr.cz/index.php/cz/novinky/1110-prihlaste-svuj-projekt-do-mezinarodni-spolecne-vyzvy-v-ramci-schematu-chist-era-iii-cofund-a-ziskejte-financni-podporu-od-ta-cr.html>
<https://tacr.cz/index.php/cz/mezinarodni-spoluprace/cofundove-vyzvy-ii/122-mezinarodni-spoluprace/cofundove-vyzvy/1137-chist-era-iii.html>
- Other website
<https://www.h2020.cz/cs/vynikajici-veda/budouci-technologie/informace/novinky/vyzva-era-net-cofund-chist-era-iii>
- TACR Newsletter, magazine TA.DI
- Leaflets: Open Science Conference, International Engineering Fair in Brno

- Presentation: (JIC) Regon - regular meeting of grant agency representatives from research organizations
http://www.risjmk.cz/userfiles/file/Brno%20International%20RD%20Network/REGON_2017-10-04_prezentace_TA%C4%8CR.pdf
- Mailing to Czech community: CzcehInvest, MUNI, SIC, JIC, Central European Institute of Technology, Technology Centre CAS

(EE) ETAG

- Call Announcement published on ETAG's website: <http://www.etag.ee/uritus/chist-era-long-term-challenges-information-communication-sciences-technologies-era-net-rahvusvaheline-uhiskonkurss-avatud/>
- Call Announcement spread via ETAG's mailing list for researchers.
- Call Announcement published in ETAG's newsletter (web):
<http://uudiskiri.etag.ee/2017/11/chist-era-rahvusvaheline-uhiskonkurss-on-avatud/>

(ES) IDEA

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(ES) MINECO

- Call Announcement published on MINECO-AEI website:
<http://www.idi.mineco.gob.es/portal/site/MICINN/menuitem.edc7f2029a2be27d7010721001432ea0/?vgnextoid=35a9958313d7f510VgnVCM1000001d04140aRCRD&vgnextchannel=878dfb7e04195510VgnVCM1000001d04140aRCRD>
- Call Announcement published on: <https://eshorizonte2020.es/mas-europa/grandes-iniciativas/era-nets/noticias/nueva-convocatoria-de-la-eranet-cofund-chist-era>
- Publication in Newsletter and twitter eshorizonte2020.es
- Presentation on Infoday new FET Flagships: <https://eshorizonte2020.es/ciencia-excelente/tecnologias-futuras-y-emergentes-fet/eventos/infoday-sobre-nuevas-fet-flagships>

(FI) AKA

- Website of the call on AKA's website: <http://www.aka.fi/en/research-and-science-policy/international-cooperation/europe/era-nets-and-other-eu-cooperation-networks/current-era-nets-and-other-eu-cooperation-networks/chist-era/>
- AKA newsletter
- Call information email to identified researchers and Finnish National Contact Points for H2020
- Notifications in social media (Twitter, Facebook, LinkedIn)

(FR) ANR

- Website of ANR (www.agence-nationale-recherche.fr – News & Call webpage) in French <http://www.agence-nationale-recherche.fr/informations/actualites/detail/8e-appel-a-projets-de-lera-net-chist-era/>
In English <http://www.agence-nationale-recherche.fr/en/information/news/single/8th-call-of-the-chist-era-era-net/>

- ANR newsletter
- Mailing to ANR experts database, to specific communities
- Mailing to the communication services of the French public research organisations (CNRS, INRIA, etc.)
- Information to be forwarded to the French National Contact Points for H2020 (<http://horizon2020.gouv.fr>)
- (to be confirmed) News to the French Ministry for Europe and Foreign Affairs (MEAE) and of the French embassies (in French and English)

(GR) GSRT

- Website of GSRT (www.gsrt.gr News) in Greek version (<http://www.gsrt.gr/central.aspx?sid=11914281108916461488772>), GSRT facebook (https://www.facebook.com/GenikeGrammateiaEreunaskaiTechnologias/?hc_ref=ARTI4d8DvYO_2dmtBEFBQVMKmu9w8niGIHZTPs0p5JjnaQLMNcV9_abp2bbi5ozf_8Y&fref=nf) and twitter (https://twitter.com/GSRT_GR/status/932930980972843009)
- Mailing to the communication services of the Greek research organisations
- Mailing to the Greek community through the press

(IE) IRC

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(IT) MIUR

- Website of MIUR international research (“News” section and dedicated page to the project):
 - <http://www.ricercainternazionale.miur.it/>
 - [http://www.ricercainternazionale.miur.it/era/eranet-cofund-\(h2020\)/chist-era-iii.aspx](http://www.ricercainternazionale.miur.it/era/eranet-cofund-(h2020)/chist-era-iii.aspx)

(LT) LMT

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(PL) NCN

Pre-Announcement:

- Website of NCN (in English):
<https://ncn.gov.pl/aktualnosci/2017-09-22-zapowiedz-konkursu-chist-era?language=en>
(in Polish):
<https://ncn.gov.pl/aktualnosci/2017-09-22-zapowiedz-konkursu-chist-era>
- Website & newsletter of the National Contact Point for Research Programmes of the European Union (in Polish):
<http://www.kpk.gov.pl/?p=39659>
- Newsletters of NCN & the National Contact Point

Call Announcement:

- Website of NCN (in English & Polish); NCN’s Facebook profile; NCN’s Newsletter

- Website & newsletter of the National Contact Point for Research Programmes of the European Union (in Polish)
- E-mailing to Polish scientific community
- Dissemination of the press release among national media
- Newsletter of the Polish Ministry of Science and Higher Education
- Publication in Cordis : :
https://cordis.europa.eu/news/rcn/141863_en.html?WT.mc_id=email-Notification

(RO) UEFISCDI

- Publication of the call at the website: <https://uefiscdi.ro/chist-era-iii-cofund>

(SK) SAV

- Publication of the Call at the web site http://www.sav.sk/?lang=sk&doc=services-news&source_no=25
- E-mailing the information to scientific community at SAS Institutes
- E-mailing the information to directors of SAS Institutes

(TR) TUBITAK

- Publication of the Call at the web site <https://h2020.org.tr/tr/haberler/chist-era-projesi-2017-cagrisi-acilmistir>
- E-mailing the information to related scientific community both from academia and industry.
- E-mailing the information to the directors of Technology Transfer Offices in Turkish Universities.

(UK) EPSRC

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Mailing message content

Mailing for the pre-announcement

Object: [CHIST-ERA] Call 2017 - Pre-Announcement

Dear Colleagues,

On behalf of the CHIST-ERA ERA-NET, I am pleased to inform you of the publication of the Call 2017 pre-announcement. The full announcement will be published later this month.

<http://www.chistera.eu/call-2017-pre-announcement>

The pre-announcement provides the details of the research targeted in the call that have been defined by the research community during the Call 2017 preparation conference. The call topics are:

- Object recognition and manipulation by robots: Data sharing and experiment reproducibility (ORMR)
- Big data and process modelling for smart industry (BDSI)

Researchers are encouraged to start discussing possible projects with prospective partners. Note that a [Partner Search Tool](#) is available. The call will require that projects are submitted by international consortia with partners in at least three countries (additional partners from other countries may be part of a consortium if they can

secure their own funding). The list of countries which have shown preliminary interest in participating in the Call is provided in the pre-announcement.

Broad distribution of the Call 2017 Pre-announcement is encouraged.

Best regards,

On the behalf of CHIST-ERA Consortium,

Béatrice Arnulphy
CHIST-ERA Joint Call Secretariat

Mailing for the announcement

Object: [CHIST-ERA] Call 2017 - Announcement

Dear Colleagues,

On behalf of the CHIST-ERA ERA-NET, I am pleased to inform you of the publication of the Call 2017.

<http://www.chistera.eu/call-2017-announcement>

The call announcement provides the details of the research targeted in the call that have been defined by the research community during the Call 2017 preparation conference. The call topics are::

- Object recognition and manipulation by robots: Data sharing and experiment reproducibility (ORMR)
- Big data and process modelling for smart industry (BDSI)

Researchers are encouraged to start discussing possible projects with prospective partners. Note that a [Partner Search tool](#) is available. The call requires that projects are submitted by international consortia with partners in at least three countries (additional partners from other countries may be part of a consortium if they can secure their own funding). The list of countries participating in the Call is provided in the Call Announcement (note that the country participation is specific to each Call topic).

Broad distribution of the Call 2017 announcement is encouraged.

Best regards,

Béatrice Arnulphy
CHIST-ERA Joint Call Secretariat

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Call Information

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CHIST-ERA is a consortium of research funding organisations supported by the European Union's Future and Emerging Technologies (FET) programme as an ERA-NET. CHIST-ERA funds transnational research projects addressing long-term ICT and ICT-based research challenges and promotes multidisciplinary research with a potential to lead to significant breakthroughs. Each year, a subset of the funding organisations in CHIST-ERA participate in a call on two new topics of emerging scientific importance.

FUNDING ORGANISATIONS PARTICIPATING IN CALL 2017



CHIST-ERA is supported by the Horizon 2020 Future and Emerging Technologies programme of the European Union.



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European coordinated research on long-term ICT and ICT-based scientific challenges

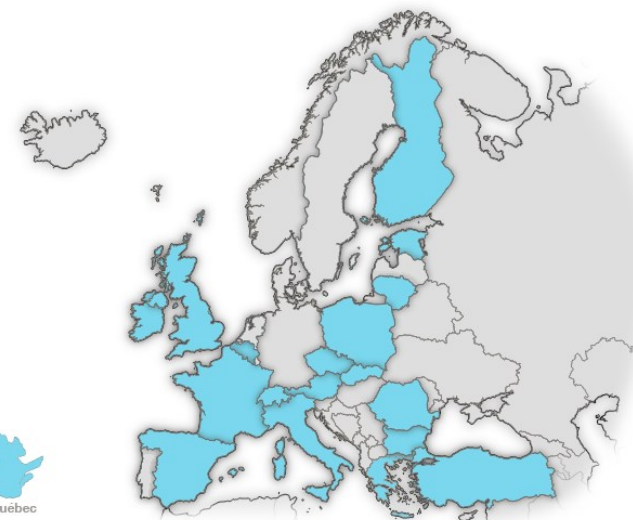
Call 2017

**Object Recognition and Manipulation by Robots:
Data Sharing and Experiment Reproducibility**

and

**Big Data and Process Modelling
for Smart Industry**

**Pre-proposal submission deadline:
11th January 2018**



www.chistera.eu

CALL 2017 TOPICS

Object Recognition and Manipulation by Robots: Data Sharing and Experiment Reproducibility (ORMR)

Projects should aim to enable the development of robots, which are able to accurately recognise and appropriately manipulate objects in various environments. Projects should lead to quantitative results which can be reproduced by others. Project teams should in particular make publicly available all the data, protocol description and software metrics needed to reproduce experiments. Appropriate efforts and means for doing so should be foreseen. Projects should address real-world challenges, and record and annotate robotic perceptions in order to experiment with different approaches for these challenges. Enough data from various environments and contexts should be used to show the robustness of the experimented approaches.

Key challenges are expected to be:

- Perceiving or predicting physical properties (shape, orientation, mass, fragility, etc.) of objects or environments;
- Handling of unknown objects and environments;
- Developing systems which are capable of operating in ambiguous contexts;
- Managing the perception-action loop;
- Interaction and cooperation with humans or other robots;
- Designing safe, secure, robust and ethically-sound systems;
- Independent and objective evaluation;
- Criteria and measures for reproducibility.

CHIST-ERA is looking for **transformative and highly multi-disciplinary research projects**. They should explore **new ideas** with potential for significant scientific and technical impacts in the long term.

Selected projects are invited to participate in a yearly seminar together with projects from previous calls.

Big Data and Process Modelling for Smart Industry (BDSI)

Projects should combine big data and process modelling for optimal and accurate operation. The developed models should be reusable across various contexts and application domains. Their performance should be measureable in an objective way.

Key challenges and opportunities are expected to be:

- Large-scale, complex systems in dynamic environments;
- Designing conceptual models for autonomous or semi-autonomous decision support;
- Intelligent fusion of multiple data streams;
- Integration of heterogeneous, structured and unstructured data;
- Combining a priori knowledge and models with empirically derived data;
- Undertaking research in collaboration with industrial partners who can provide representative data;
- Managing to combine the requirements for privacy, security and intellectual property with the need to develop models openly;
- Taking advantage of collaboration to collect data from multiple international environments (physical, cultural and regulatory);
- Implement independent evaluation of systems, data and outputs.

CHIST-ERA launches a call for research proposals in two **new topics each year**. In previous years, CHIST-ERA calls have targeted quantum computing, consciousness, knowledge extraction, low-power computing, intelligent user interfaces, smart communication networks, adaptive machines, distributed computing, trustworthy cyber-physical systems, human language understanding, security and privacy in the internet of things, terahertz communication, lifelong learning for intelligent systems and visual analytics.

SELECTION PROCEDURE

This call follows a two-stage submission and evaluation procedure.

At both stages of the application, the coordinator prepares a joint proposal for the consortium, using the template available on the CHIST-ERA website (www.chistera.eu). The form is submitted using the electronic submission system on the website.

Consortium Eligibility

Projects have a duration of either 24 or 36 months.

The following criteria must be met:

- The consortium is **international**: it must have a minimum of three partners and partners must be located in at least three distinct countries.
- The consortium is **balanced**: at most 60% of the total funding may be requested by partners from one country.

The consortium needs to be **focused**, that is, the proposed research must have a clearly defined goal. Consortia should therefore normally contain between three and six partners.

Research groups who are not eligible to receive funding from any organisation participating in the concerned topic may be part of a consortium if they are able to secure their own funding. Third-party funding is not considered for the criteria above. The consortium coordinator must be supported by a funding organisation participating in the topic.

Evaluation and Funding Decision

The proposals are evaluated by an international panel according to the following criteria: *Relevance to the Topic*, *Scientific & Technical Quality*, *Implementation*, and *Impact*.

On the basis of the ranking and of available funding, the funders propose a list of projects to be funded. The final decision remains with the funding organisations.



Projects Seminar 2018 – Paris (France) Program & Practical Information

	Locations	Dates
Individual Projects meetings (on demand)	ANR 50 avenue Daumesnil, 75012 Paris	April 9-10, 2018
Project Seminar	Espace Charenton 327 rue de Charenton, 75012 Paris http://www.espacecharenton.com/	April 11-12, 2018
Individual Projects meetings (on demand)	ANR 50 avenue Daumesnil, 75012 Paris	April 13, 2018
www.chistera.eu/projects-seminar-2018-paris		

Purpose and concept

The CHIST-ERA Projects Seminar 2018 brings together researchers involved in the ongoing CHIST-ERA projects and representatives of the research funding organisations. The main objective is to promote exchanges between the projects and to facilitate the follow-up of the projects by the funders and the review experts. In this context, the objectives of the seminar are:

- Remind the project partners of the broader CHIST-ERA picture, including the follow-up process and objectives;
- Exchange impressions about the funded projects, meet in person and listen to the researchers presenting their projects;
- Strengthen the scientific communities working in the topics of the CHIST-ERA calls and support effort toward new collaborative and interdisciplinary research.

As a further objective, the seminar contributes to the long-term assessment of CHIST-ERA calls and the shaping of CHIST-ERA in the long run.

Contact information of the organizers

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Program

	Tuesday, April 10	Wednesday, April 11	Thursday, April 12	Friday, April 13
	Day 0	Day 1	Day 2	Day 3
08:30	Optional project meetings @ANR	Optional projects meetings @Espace Charenton	Morning Coffee	Optional projects meetings @ANR
09:00			General Presentation	
09:30			Topic presentation	
10:00			2013 - HDC	
10:30			2013 - AMCE	
11:00			2014 - HLU	
11:30			Coffee break	
12:00		Registration & welcome lunch	Topic presentation	
12:30			2014 - RTCPS	
13:00		Introduction	2015 - TMCS	
13:30			2015 - SPTIOT	
14:00		Parallel Sessions	General Discussion	
14:30			Lunch	
15:00			Topic presentation	
15:30		Coffee break	2016 - VADMU	
16:00			2016 - LLIS	
16:30		Parallel Sessions	Former projects	
17:00			Keynote Presentation	
17:30			General Discussion	
18:00		Poster/Demo Event & Diner	Conclusion	
19:00 – 21:30			Follow-up expert group meeting *	

* For research funding organisations and review experts only



Format of the Projects Seminar

The core program of the Projects Seminar is divided in 2 days; see the program on the previous page.

Day 1 - Wednesday, April 11, afternoon

- **Parallel sessions per topics** organized to foster exchange of ideas and collaborations among CHIST-ERA projects in the same topic. The final goal is to compile a joint presentation for the Plenary Session. Delegates will be guided through the parallel sessions by representatives of the funding organizations.
- **Plenary poster & demo session (cross topics)**, an opportunity for delegates to explain or discover ongoing CHIST-ERA projects from a more practical point of view. Further detailed instructions are provided on the next page.

Day 2 - Thursday, April 12

- **Plenary session** with one joint presentation per topic about the big picture of the major achievements and upcoming challenges for each topic.

Practicalities

Instructions for presentations in Parallel Sessions

The contents of the presentations of each project (about 15 min), to be prepared in advance, include:

- Scientific background
- Key challenges and potential impact of the project
- Presentation of each partner of the consortium with their specificity and added value
- Main scientific results, dissemination and other output
- Sustainability/Valorisation

Instructions for presenters of a demo or a poster

Delegates are encouraged to prepare an interactive demo in relation with their project. The demos will be presented in one room and in parallel during the *Demo & Poster Session*; see the program. Power supply and desks will be available, but delegates need to bring their own hardware (laptops, data storage, etc.). Please contact the seminar organizers if you have any further questions or needs.

The projects which are not ready to present a demo can bring a poster instead, which will be displayed in the room where the demo session takes place. Posters accompanying demos are welcome as well.

Instructions for presentations in the Plenary Session

There will be one joint presentation for each topic (about 15 min), to be prepared during Parallel Session on Day 1. The contents shall cover:

- a short introduction into the topic or the projects
- the big picture of the major achievements and output
- upcoming challenges and needs
- a possible roadmap

Delegates are encouraged to prepare or think about possible contents for the joint plenary presentation in advance. All the presentation should be sent to the organizers and will be published on chistera.eu.

Location of seminar, networking event, accommodation

Seminar venue

The seminar takes place at [Espace Charenton](#), Paris, France. The meeting is organized by the French National Research Agency ([ANR](#)), CHIST-ERA coordinator.

In addition to the Projects Seminar, the CHIST-ERA consortium offers participants who wish to host their project meeting at the ANR or at the venue (depending of the date).

Networking event

A networking event (Demo/Poster & Diner) will take place at the venue on the evening of Wednesday, April 11 in the following of the first day of the Projects Seminar from 19h00 till 21h30.

Accommodation

CHIST-ERA meeting attendees are invited to book their accommodation on their own. Several hotels are located nearby or easily reachable with public transports.

Hotels with special fixed rates - 10% discount on the rate displayed using the code "Espace Charenton" in direct booking (see <http://www.espacecharenton.com/index.php?id=18&lang=en>)

- Hotel Golden Tulip Gare de Lyon Le 209
<http://www.goldentulipgaredelyon209.com/fr> - + 33(0) 1 43 40 80 30
- Grand Hôtel Doré
<http://www.grand-hotel-dore.com/fr/> - + 33(0) 1 43 43 66 89

Further hotels

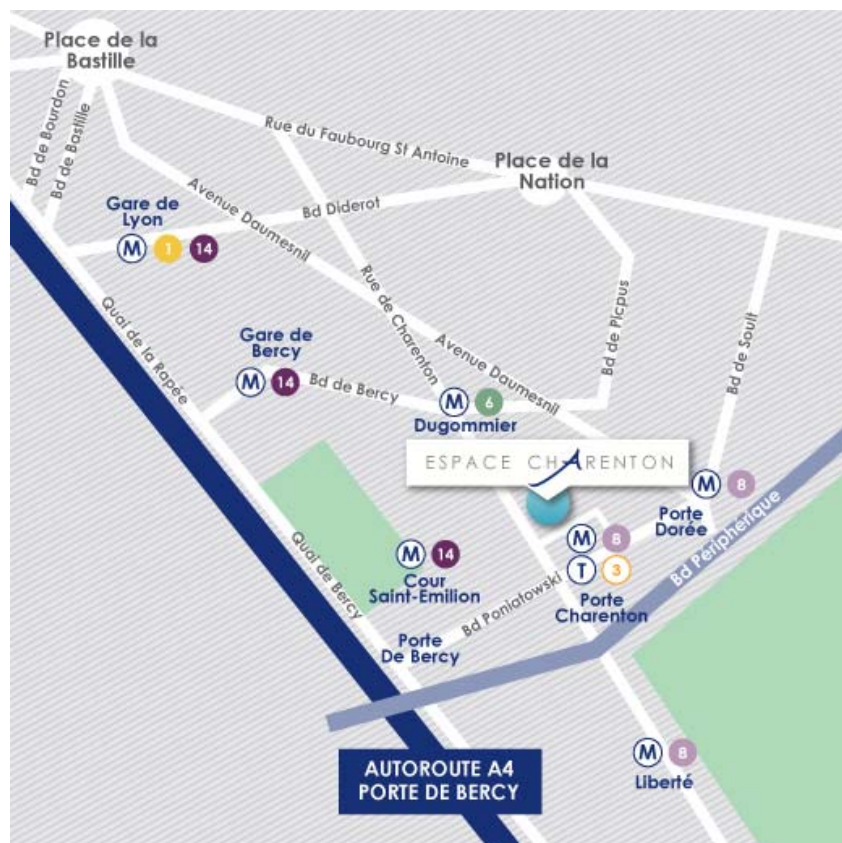
- Mercure Paris Gare de Lyon
<http://www.mercure.com/fr/hotel-2217-hotel-mercure-paris-gare-de-lyon-tgv/>
- IbisStyle
<http://www.ibis.com/fr/hotel-0941-ibis-styles-paris-bercy/>

- Pullman Paris Bercy
<http://www.pullmanhotels.com/fr/hotel-2192-pullman-paris-centre-bercy/>
- Kyriad Paris Bercy Village
<http://www.bercykyriad.com/>
- Ibis Daumesnil Porte Dorée
<https://www.accorhotels.com/fr/hotel-5038-ibis-daumesnil-porte-doree/>
- Adagio Access Paris Porte De Charenton
<https://www.adagio-city.com/fr/hotel-8365-aparthotel-adagio-access-paris-porte-de-charenton/>
- Novotel Paris Charenton
<http://www.novotel.com/fr/hotel-1549-novotel-paris-sud-porte-de-charenton/>

Parking Access

A few places are available in the parking of Espace Charenton. For more information, please contact the organizers. Registration requesting the license plate number of the car will be accepted until Tuesday, April 10.

Access Map





European Coordinated Research on Long-Term ICT and ICT-Based Challenges

Call 2018 Topics

The CHIST-ERA ERA-NET is a consortium of research funding organisations supporting joint transnational research on multidisciplinary ICT and ICT-based challenges with the potential to lead to significant breakthroughs. The consortium is itself supported by the European Union's Future and Emerging Technologies programme (FET). In the Call 2018, to be published in October 2018, two new and emerging topics are addressed.

Analog Computing for Artificial Intelligence

Analog computing, which was initially the mainstream approach in computing, has seen its progress outpaced by the huge investments in digital computing following Moore's law during almost five decades. However, with the end of Moore's law, there is room again for more varied computer architectures including analog ones. These can enable fast, energy-efficient computing for specific applications and thus become attractive again. Furthermore, the field of Artificial Intelligence, which is progressing fast, addresses signals which are intrinsically analog (image, sound, speech, proprioception, etc...) and increasingly relies on neural networks which naturally lend themselves to analog computing. In this context, analog computing becomes appealing for running Artificial Intelligence applications locally on personal devices, and more generally in an energy-efficient way, and new approaches of analog computing needs to be explored in that direction.

Application sectors: All application sectors of Artificial Intelligence, especially in portable or autonomous devices

Keywords: Analog computing; Artificial Intelligence; neural networks; neuromorphic; low-power ICT (Information and Communication Technologies); resource-efficient ICT





Intelligent Computation for Dynamic Networked Environments

Novel intelligent coordination strategies are needed in the new era of computing abstractions prompted by the generation of large data volumes and by the software needs of resource-constrained and mobile devices. This trend is foreseen to exacerbate in smart environments powered by post-5G networks. Processing will have to be delegated along the network path, including current fog nodes, edge servers or cloud datacentres. Hence, the need for ubiquitous solutions that dynamically orchestrate computing tasks among these planes. The aim is to provide full context-awareness in the distribution of resources while addressing potential security and service dynamicity issues.

Application sectors: Intelligent data processing; smart cities and spaces; connected and green transportation; software engineering; software-defined networks; information-centric networks; fog, edge and cloud computing

Keywords: Computing offload; fog computing; edge computing; cloud computing; processing coordination; IoT (Internet of Things)

CHIST-ERA Conference 2018

June 19-21, Helsinki, Finland

The *CHIST-ERA Conference 2018* in Helsinki (Finland), 19-21 June, brings together prominent scientists and representatives of CHIST-ERA in order to identify and formulate promising scientific and technological challenges at the frontier of research with a view to refine the call text.

Participate in the definition of the Call 2018

In addition to introductory keynote talks by internationally renowned scientists, the conference proposes facilitated breakout sessions to brainstorm on the call content. This event represents a unique opportunity for the scientific community to participate in scoping the call topics and to network with potential partners.

Info and registration:

<http://conference2018.chistera.eu>

Call Information

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Welcome to the CHIST-ERA Conference 2018

Helsinki, 19-21 June, 2018
Jukka Tanskanen, PhD
Science adviser



Practicalities, day 1 and 2

Meeting room: Tarja Halonen, floor 1.5

Coffee and fruits will be available

Buffee lunches will be served at restaurant Paasi, 2nd floor

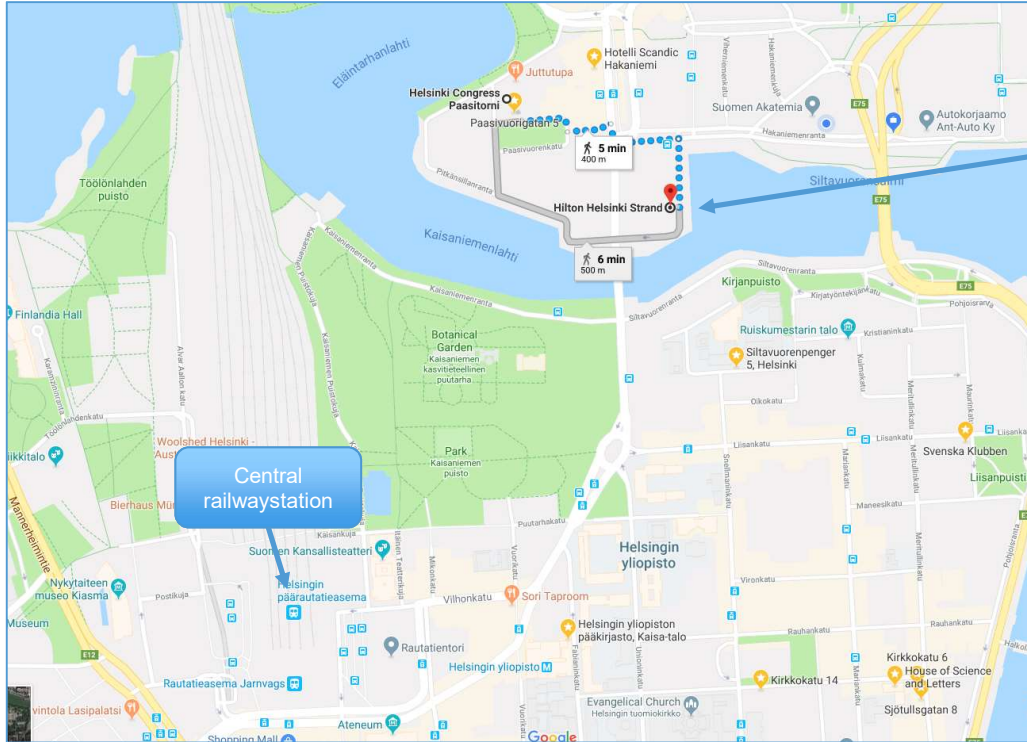
Coffee and light snacks will be available

Restaurant Hilton Helsinki Strand, the Ballroom

Schedule	19/06/2018	20/06/2018	21/06/2018
08:30		Welcome	Welcome
09:00		Brainstorming on call content	Brainstorming on call content
11:30		Coffee break	Coffee break
12:00		Brainstorming on call content	Brainstorming on call content
12:50		Conclusions	Conclusions
13:00	Lunch and Registration for ACAI topic	Lunch and Registration for ICoDyNE topic	Lunch
14:00	Welcome address & introduction	Welcome address & introduction	
14:30	Keynote session Hava Siegelmann, DARPA Sayani Majumdar, Aalto University	Keynote session José Santa Lozano, University of Murcia Nicholas Race, Lancaster University Andrew Crabtree, University of Nottingham	
16:00	Coffee break	Coffee break	
16:30	Poster presentation (plenary, 1' per poster)	Poster presentation (plenary, 1' per poster)	
17:20	Info session for Call 2018 applicants	Info session for Call 2018 applicants	
17:40	Introduction to brainstorming session of ACAI half day 2	Introduction to brainstorming session of ICoDyNE half day 2	
17:45	Networking session	Networking session	
19:00	Break	Break	
20:00	Networking dinner	Networking dinner	

Dinner at Hilton Helsinki Strand, the Ballroom

Location



Starters:
Salmon carpaccio

Main dish:
Beef fillet with grilled vegetables

Dessert:
Lemon cake, ice cream, blueberries

Practicalities, day 2 and 3

Meeting room: Tarja Halonen, floor 1.5

Coffee and fruits will be available

Buffee lunches will be served at restaurant Paasi, 2nd floor

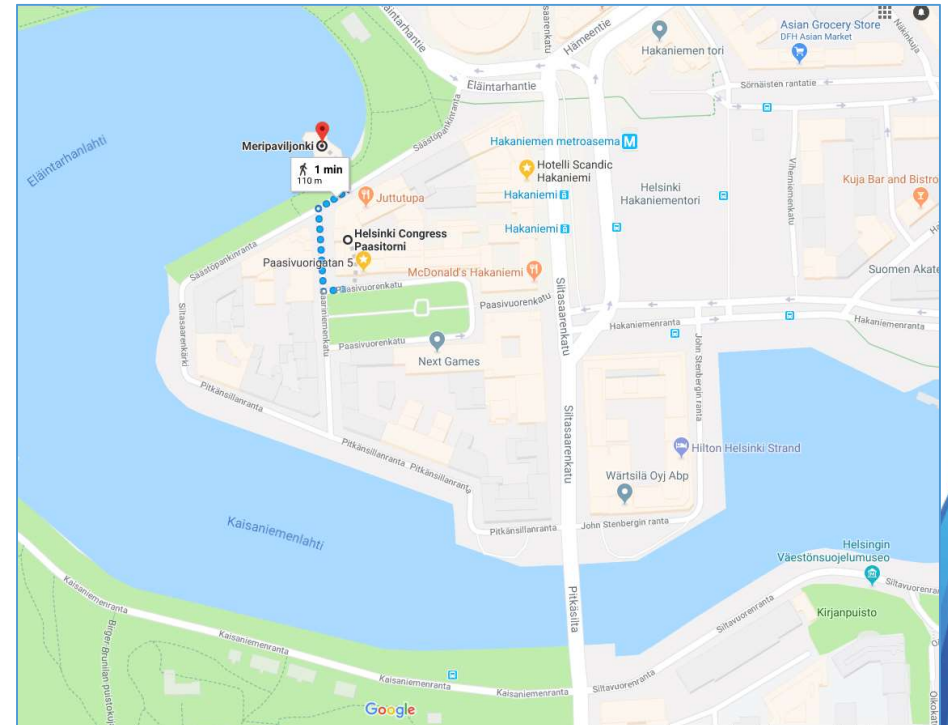
Coffee and light snacks will be available

Restaurant Meripaviljonki

Schedule	20/06/2018	21/06/2018
08:30	Welcome	Welcome
09:00	Brainstorming on call content	Brainstorming on call content
11:30	Coffee break	Coffee break
12:00	Brainstorming on call content	Brainstorming on call content
12:50	Conclusions	Conclusions
13:00	Lunch and Registration for ICoDyNE topic	Lunch
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16:00	Coffee break	
16:30	Poster presentation (plenary, 1' per poster)	
17:20	Info session for Call 2018 applicants	
17:40	Introduction to brainstorming session of ICoDyNE half day 2	
17:45	Networking session	
19:00	Break	
20:00	Networking dinner	

Dinner at Restaurant Meripaviljonki

Location



Starters:

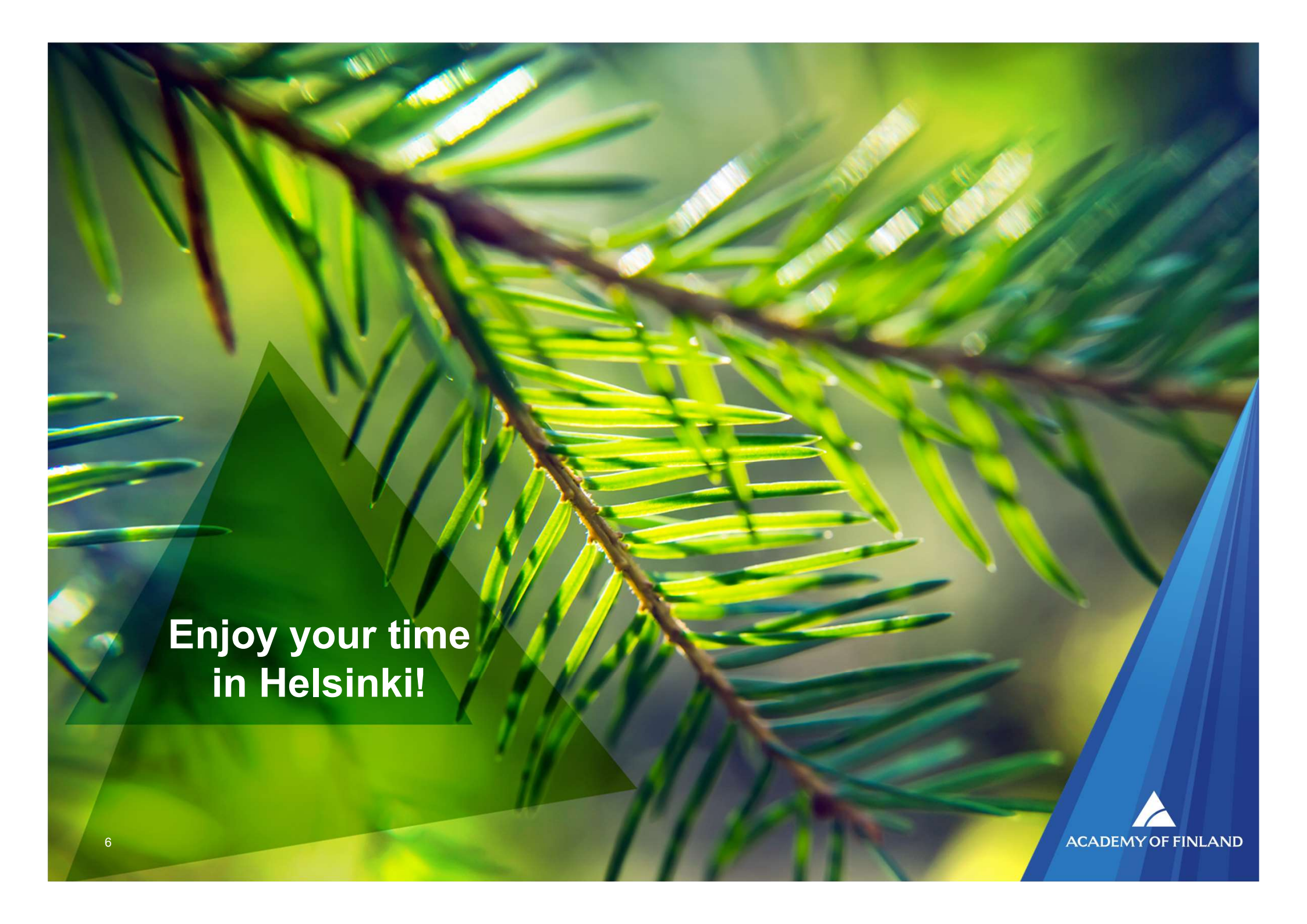
Akvavit flavoured slightly salted salmon – Cold smoked salmon roe – Malt flavoured crème (LF)

Main dish:

Roasted Finnish whitefish - Horseradish potato - Bouillabaisse sauce

Dessert:

Basil panna cotta – Fresh berry sorbet – Almond cake (LF, GF without cake)



**Enjoy your time
in Helsinki!**



CHIST-ERA Call 2018

Communication Plan

Overall timeline

08/10/2018	Publication of the pre-announcement and mailing to the research communities
15/10/2018	Publication of Call Announcement and mailing to the research communities

Actions

Transnational level (CHIST-ERA Joint Secretariat)

- Publication on the CHIST-ERA web site (www.chistera.eu/call-2018-pre-announcement then www.chistera.eu/call-2018-announcement)
- Preparation of the CHIST-ERA Call 2018 leaflet (for the Call Announcement)
- Mailing to the CHIST-ERA community, i.e. experts (applicants, reviewers) from past calls and website newsletter subscribers (for the pre-announcement and for the call announcement; cf. message content below) + submission website on-line
- Information to ERA-LEARN for inclusion on their joint calls calendar (<https://www.era-learn.eu/network-information/call-calendar>)
- FET Newsletter (http://ec.europa.eu/newsroom/dae/newsletter-specific-archive-issue.cfm?newsletter_service_id=129)
- Mailing to relevant communities
 - Topic ACAI
 - ECSEL (Electronic Components and Systems for European Leadership) Joint Undertaking (www.ecsel.eu, ecsel-office@ecsel.europa.eu) and its Strategic Research Agenda chair (laila.gide@thalesgroup.com)
 - Topic SDCDN
 - 5G PPP (5g-ppp.eu, info@5g-ppp.eu)

Participating Funding Organisations

(AT) FWF

- Website of FWF <http://www.fwf.ac.at/en/about-the-fwf/international-activities/multilateral-activities/chist-era/>
- FWF Newsletter

(BG) BNSF

- Website of BNSF: <https://www.fni.bg/?q=node/818>;

- Mailings to applicants and experts from the scientific community ;
- Presentations during regular meetings with interested communities.

(CA) FRQNT

- Website of FRQNT Newsfeed: <http://www.frqnt.gouv.qc.ca/espace-presse/nouvelles-et-communiqués/nouvelle/preannonce-appel-2018-de-chist-era-05qk1rkz1539281544529>
- Website of FRQNT copying the Chist-Era Program rules: To come when the Call will be open.
- Mailing to the FRQNT community following the Call Announcement publication

(CH) SNSF

- Website of the SNSF: <http://www.snf.ch/en/researchinFocus/newsroom/Pages/news-181015-call-for-proposals-chist-era-call-2018-announcement.aspx>
- Mailing-list of SIRA (non-profit association with the goals of fostering national and international collaboration within the ICT research community and of promoting the visibility and recognition of research and advanced education in ICT and its related fields performed in Switzerland), <http://www.s-i.ch/fachgruppen-und-sektionen/sira/>
- Website of Euresearch (Swiss network mandated by the State Secretariat for Education, Research and Innovation providing targeted information, hands-on advice and transnational partnering related to European research and innovation programmes) <https://www.euresearch.ch/en/>

(CZ) TACR

- Website of TACR (in Czech)
<https://tacr.cz/index.php/cz/programy/cofundove-vyzvy/122-mezinarodni-spoluprace/cofundove-vyzvy/1137-chist-era-iii.html>
<https://tacr.cz/index.php/cz/mezinarodni-spoluprace/cofundove-vyzvy-ii/122-mezinarodni-spoluprace/cofundove-vyzvy/1428-call-2018-chist-era.html>
homepage news: <https://tacr.cz/index.php/cz>
- Other website
<https://www.h2020.cz/cs/vynikajici-veda/budouci-technologie/informace/novinky>
<https://www.h2020.cz/cs/vynikajici-veda/budouci-technologie/vyzvy>
- TACR Newsletter, magazine TA.DI
- Presentation at International Engineering Fair in Brno
- Leaflets: Open Science Conference, International Engineering Fair in Brno
- Mailing to Czech community: CzeInvest, MUNI, SIC, JIC, Central European Institute of Technology, Technology Centre CAS

(EE) ETAG

- Call Announcement published on ETAG's website: <http://www.etag.ee/chist-era-rahvusvaheline-uhiskonkurss-on-avatud/>
- Call Announcement spread via ETAG's mailing list for researchers.
- Call Announcement published in ETAG's newsletter (web):
<http://uudiskiri.etag.ee/2018/10/chist-era-rahvusvaheline-uhiskonkurss-on-avatud-2/>

(ES) AEI

- Call Pre-Announcement published on AEI website:
<http://www.ciencia.gob.es/portal/site/MICINN/menuitem.edc7f2029a2be27d7010721001432ea0/?vgnextoid=812e8e2eb3856610VgnVCM1000001d04140aRCRD&vgnnextchannel=878dfb7e04195510VgnVCM1000001d04140aRCRD>
- Call Announcement published on AEI website:
<http://www.ciencia.gob.es/portal/site/MICINN/menuitem.edc7f2029a2be27d7010721001432ea0/?vgnextoid=5553e32f710a6610VgnVCM1000001d04140aRCRD&vgnnextchannel=878dfb7e04195510VgnVCM1000001d04140aRCRD>
- Call Pre-Announcement published on: <https://eshorizonte2020.es/mas-europa/grandes-iniciativas/era-nets/noticias/pre-anuncio-de-la-nueva-convocatoria-de-la-eranet-chist-era>:
- Call Announcement published on: <https://eshorizonte2020.es/mas-europa/grandes-iniciativas/era-nets/noticias/nueva-convocatoria-de-la-eranet-chist-era4>
- Publication in Newsletter and twitter eshorizonte2020.es
- Presentation on national FET Infodays: 27th of November Madrid and 28th of November in Barcelona.

(FI) AKA

- Website of the call on AKA's website: <http://www.aka.fi/en/research-and-science-policy/international-cooperation/europe/era-nets-and-other-eu-cooperation-networks/current-era-nets-and-other-eu-cooperation-networks/chist-era/>
- Call information email to identified researchers and Finnish National Contact Points for H2020
- Notifications in social media (Twitter, Facebook, LinkedIn)

(FR) ANR

- Website of ANR (www.agence-nationale-recherche.fr – News & Call webpage) in
In French <http://www.agence-nationale-recherche.fr/informations/actualites/detail/9e-appel-a-projets-de-lera-net-chist-era/>
In English <http://www.agence-nationale-recherche.fr/en/information/news/single/9th-call-of-the-chist-era-era-net/>
- ANR newsletter
- Mailing to ANR experts database, to specific communities
 - ACAI
 - Mailing-list of the national research network (Groupe de recherche, GDR) BioComp on material implementations of natural calculus (gdr-biocomp.fr) via its director (julie.grollier@cnrs-thales.fr)
 - SDCDN
 - Mailing-list of the national research network (Groupe de recherche, GDR) RDS on Distributed networks and Systems (gdr-rsd.cnrs.fr) via its director (andre-luc.beylot@irit.fr)
- Mailing to the communication services of the French public research organisations (CNRS, INRIA, etc.)
- Information to be forwarded to the French National Contact Points for H2020 (<http://horizon2020.gouv.fr>)
- (to be confirmed) News to the French Ministry for Europe and Foreign Affairs (MEAE) and of the French embassies (in French and English)

(GR) GSRT**Pre-Announcement:**

- Website of GSRT - Greek version (<https://goo.gl/uRmMDY>)

Call Announcement:

- Publication of the Call in GSRT Website - Greek version (<https://goo.gl/ne9DY0>)
- Publication of the Call in GSRT Facebook and Twitter
- Mailing to the communication services of the Greek research organisations

(IE) IRC

- The call documents are available on the IRC website: <http://research.ie/funding/chist-era/>
- Mailings to Research Managers and all IRC contacts in higher education institutions

(LT) LMT

- LMT website (<https://www.lmt.lt/lt/mokslo-finansavimas/era-net-ir-kitos-koordinavimo-veiklos/chist-era/2432>)
- LMT website (<https://www.lmt.lt/lt/mokslo-finansavimas/kalendorinis-kvietimu-planas/2287> - under 'New calls' and 'CHIST-ERA') (in Lithuanian)
- LMT newsletter

(RO) UEFISCDI

- Publication of the call at the website: <https://uefiscdi.ro/chist-era-iii-cofund>
- E-mailing list to the Romanian research community

(SK) SAV

- Publication of the Call at the web site https://www.sav.sk/index.php?lang=sk&doc=services-news&source_no=25&news_no=7830
- E-mailing the information to scientific community at SAS Institutes
- E-mailing the information to directors of SAS Institutes

(UK) EPSRC

- Pre-announcement emails to interested communities
- Website of EPSRC
- EPSRC call alert service
- Direct engagement with interested communities (team visits, conferences, etc.)
- Targeted emails to interested communities

Mailing message content

Mailing for the pre-announcement

Object: CHIST-ERA Call 2018 - Pre-announcement - Analog Computing for Artificial Intelligence & Smart Distribution of Computing in Dynamic Networks

Dear Colleagues,

On behalf of the CHIST-ERA ERA-NET, I am pleased to inform you of the publication of the Call 2018 pre-announcement (<http://www.chistera.eu/call-2018-pre-announcement>). The full announcement will be published later this month.

The pre-announcement provides the details of the research targeted in the call that have been defined by the research community during the Call 2018 preparation conference. The call topics are:

- **Analog Computing for Artificial Intelligence (ACAI)**
- **Smart Distribution of Computing in Dynamic Networks (SDCDN)**

Researchers are encouraged to start discussing possible projects with prospective partners. Note that a [Partner Search Tool](#) is available. The call will require that projects are submitted by international consortia with partners in at least three countries (additional partners from other countries may be part of a consortium if they can secure their own funding). The list of countries which have shown preliminary interest in participating in the Call is provided in the pre-announcement.

Broad distribution of the Call 2018 pre-announcement is encouraged.

Best regards,

On the behalf of CHIST-ERA Consortium,

Sergueï Fedortchenko
CHIST-ERA Joint Call Secretariat

Mailing for the announcement

Object: CHIST-ERA Call 2018 - Announcement - Analog Computing for Artificial Intelligence & Smart Distribution of Computing in Dynamic Networks

Dear Colleagues,

On behalf of the CHIST-ERA ERA-NET, I am pleased to inform you of the publication of the Call 2018 (cf. <http://www.chistera.eu/call-2018-announcement>).

The call announcement provides the details of the research targeted in the call that have been defined by the research community during the Call 2018 preparation conference. The call topics are:

- **Analog Computing for Artificial Intelligence (ACAI)**
- **Smart Distribution of Computing in Dynamic Networks (SDCDN)**

The pre-proposal submission deadline is 15 January 2019, 17:00 (CET).

The call requires that projects are submitted by international consortia with partners in at least three countries (additional partners from other countries may be part of a consortium if they can secure their own funding). The list of countries participating in the Call is provided in the Call Announcement (note that the country participation is specific to each Call topic). Note that a [Partner Search tool](#) is available.

Broad distribution of the Call 2018 announcement is encouraged.

Best regards,

Sergueï Fedortchenko
CHIST-ERA Joint Call Secretariat

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TR— Turkey (TUBITAK) - Serkan Üçer
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UK— United Kingdom (EPSRC) - Joanne Holbourne
+44 1793 444116 • joanne.holbourn@epsrc.ac.uk

CHIST-ERA is a consortium of research funding organisations supported by the European Union's Future and Emerging Technologies (FET) programme as an ERA-NET. CHIST-ERA funds transnational research projects addressing long-term ICT and ICT-based research challenges and promotes multidisciplinary research with a potential to lead to significant breakthroughs. Each year, a subset of the funding organisations in CHIST-ERA participate in a call on two new topics of emerging scientific importance.

FUNDING ORGANISATIONS PARTICIPATING IN CALL 2017



CHIST-ERA is supported by the Horizon 2020 Future and Emerging Technologies programme of the European Union.



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chist-era

European coordinated research on long-term ICT and ICT-based scientific challenges

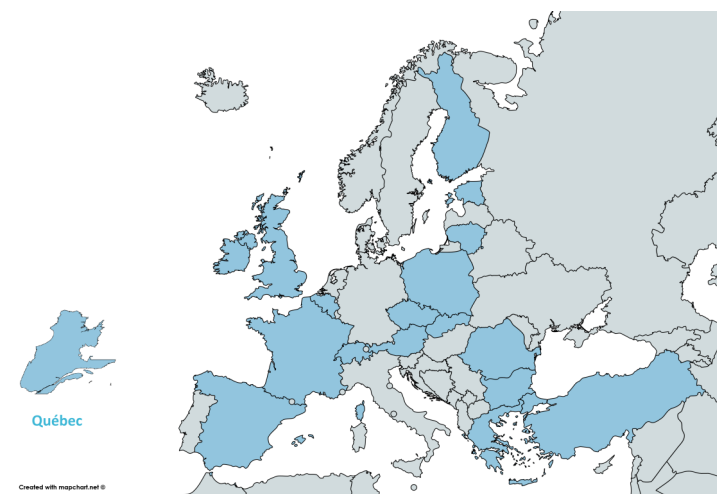
Call 2018

Analog Computing for Artificial Intelligence

and

Smart Distribution of Computing in Dynamic Networks

Pre-proposal submission deadline:
15th January 2019



Call Information

Sergueï Fedortchenko (ANR)
+33 1 78 09 80 37 • serguei.fedortchenko@anr.fr
<http://www.chistera.eu/call-2018-announcement>

CALL 2018 TOPICS

Analog Computing for Artificial Intelligence (ACAI)

Projects should lead to technology demonstrators enabling robust operation and give due consideration to performance evaluation and experiment reproducibility. Power consumption, computational capability, efficiency, reliability and adaptability are important aspects of this research domain and should be considered where relevant. Both new algorithms and adaptation of existing algorithms to new analog technologies can be addressed. Unconventional approaches can be considered where it can be demonstrated that they can lead to better artificial intelligence either generally or for specific domains of use.

Key challenges are expected to be:

- Adaptability and ease of programming
- Energy consumption performance
- Performance benchmarking and demonstration of superior performance with respect to conventional approaches for specific applications in artificial intelligence
- The design of new, more resilient and configurable architectures
- Demonstration of practicality

CHIST-ERA is looking for **transformative and highly multi-disciplinary research projects**. They should explore **new ideas** with potential for significant scientific and technical impacts in the long term.

Selected projects are invited to participate in a yearly seminar together with projects from previous calls.

Smart Distribution of Computing in Dynamic Networks (SDCDN)

Projects should propose, design and/or implement demonstration technologies in user-centric application domains that highlight the benefits of dynamic computing in terms of security, reliability, trust, energy efficiency, computational capability and user perception.

Key challenges may include:

- Improving user experience in dynamic network scenarios and integration of user experience evaluation
- Development of distribution strategies which improve application performance
- Intelligent data storage, processing and movement
- Creating context aware functionality
- Transparency of operation
- Identification of application classes which are particularly suitable for realization on such platforms
- Performance benchmarking
- Addressing potential security issues

CHIST-ERA launches a call for research proposals in two **new topics each year**. In previous years, CHIST-ERA calls have targeted quantum computing, consciousness, knowledge extraction, low-power computing, intelligent user interfaces, smart communication networks, adaptive machines, distributed computing, trustworthy cyber-physical systems, human language understanding, security and privacy in the internet of things, terahertz communication, lifelong learning for intelligent systems, visual analytics, reproducibility in robotics, and industrial big data.

SELECTION PROCEDURE

This call follows a two-stage submission and evaluation procedure.

At both stages of the application, the coordinator prepares a joint proposal for the consortium, using the template available on the CHIST-ERA website (www.chistera.eu). The form is submitted using the electronic submission system on the website.

Consortium Eligibility

Projects have a duration of either 24 or 36 months.

The following criteria must be met:

- The consortium is **international**: it must have a minimum of three partners and partners must be located in at least three distinct countries.
- The consortium is **balanced**: at most 60% of the total funding may be requested by partners from one country.

The consortium needs to be **focused**, that is, the proposed research must have a clearly defined goal. Consortia should therefore normally contain between three and six partners.

Research groups who are not eligible to receive funding from any organisation participating in the concerned topic may be part of a consortium if they are able to secure their own funding. Third-party funding is not considered for the criteria above. The consortium coordinator must be supported by a funding organisation participating in the topic.

Evaluation and Funding Decision

The proposals are evaluated by an international panel according to the following criteria: *Relevance to the Topic, Scientific & Technical Quality, Implementation, and Impact*.

On the basis of the ranking and of available funding, the funders propose a list of projects to be funded. The final decision remains with the funding organisations.