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Call Information

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CHIST-ERA is a consortium of research funding organisations in Europe with programmes supporting Information Communication Sciences & Technologies (ICST). CHIST-ERA reinforces the European Research Area in ICST by deepening the cooperation among Member States as well as between them and the European Union. CHIST-ERA coordination activities are supported by the European Union's Future and Emerging Technologies scheme (FET) as an ERA-NET project.

CHIST-ERA promotes transnational and multidisciplinary ICST research by funding projects on selected topics 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 in ICST.

FUNDING ORGANISATIONS PARTICIPATING IN CALL 2016



FUNDING OPPORTUNITIES from the
FUTURE & EMERGING TECHNOLOGIES scheme



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European Coordinated Research on Long-term Challenges
in Information and Communication Sciences and Technologies ERA-

Call 2016

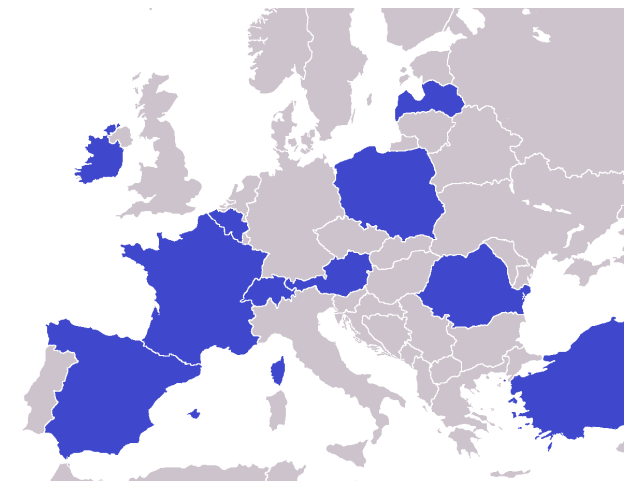
on

Lifelong Learning for
Intelligent Systems (LLIS)

and

Visual Analytics for Decision Making
under Uncertainty (VADMU)

Call Deadline: 17th January 2017





CALL 2016 TOPICS

CHIST-ERA is looking for transformative and highly multidisciplinary research projects in Information and Communication Sciences & Technologies (ICST).

They should explore new ideas with potential for significant scientific and technical impacts in the long term.

Lifelong Learning for Intelligent Systems (LLIS)

Projects should aim at developing systems which offer state-of-the-art performance on a known task and are able to autonomously learn from further inputs in order to further improve on the same task or on an extended one. The use cases, scenarios and data used to train and test the systems should be real or realistic. Proposals should precisely describe the foreseen evaluation protocols and the means to implement them. They should also precisely describe the models and techniques to be explored.

Key challenges are expected to be:

- Actively exploring the environment, possibly being guided by autonomously defined new goals, and identifying the important information using the current knowledge of the system;
- Incorporating new information to update past knowledge while avoiding system regression;
- Limiting the need to return to the initial training data;
- Taking into account the interplay of user feedback and the system output.

Visual Analytics for Decision Making under Uncertainty (VADMU)

Projects should enable the creation of tools, demonstrable methodologies and assistive technologies for visual data analytics, in order to help organizations and institutions to rapidly recognize disruptive propositions and opportunities. Such tools and methods should be designed with full consideration of the user and application. Proposals are expected to include a cross-disciplinary skill base to ensure usability and efficacy.

Key challenges and opportunities are expected to be:

- Multidisciplinary modelling approaches which integrate visual, numerical and domain-specific methods to better meet user needs;
- Visualizing and interpreting large data sets and communicating their context, value, reliability, scope, accuracy and uncertainty in an intuitive manner;
- Creating multimodal user interfaces to support user interaction with data;
- Measuring the performance of such tools in real or realistic user environments, using representative data and user testing.

CHIST-ERA launches a call for research proposals in two new topics each year. Selected projects are invited to participate in a yearly seminar together with projects from previous calls. Topics of recent calls are:

2013: Adaptive Machines & Heterogeneous Distributed Computing
2014: Resilient Trustworthy Cyber-Physical Systems & Human Language Understanding
2015: Security and Privacy in the Internet of Things & Terahertz Communication

SELECTION PROCEDURE

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.

Funding Decision

The proposals will be 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 will propose a list of projects to be funded. The final decision remains with the funding organisations.