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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 promotes transnational and multidisciplinary ICST research by funding projects on selected topics with a potential to lead to significant breakthroughs.

CHIST-ERA also 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.

PARTNERS & ASSOCIATES



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chist-era

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

Call 2014

on

**Resilient Trustworthy Cyber-Physical
Systems**

and

**Human Language Understanding:
Grounding Language Learning**

Call Deadline: 13th January 2015



Call 2014 Topics

CHIST-ERA is looking for transformative and highly multidisciplinary research projects in ICST. They should explore new ideas with potential for significant scientific and technical impacts in the long term. Each year, CHIST-ERA launches a call for research proposals in two new topics of emergent scientific importance (Quantum Communication and Autonomic Systems in 2010, Knowledge Extraction and Low-power Computing in 2011, Intelligent User Interfaces and Adaptive Communication Networks in 2012, Adaptive Machines and Distributed Computing in 2013).

Resilient Trustworthy Cyber-Physical Systems (RTCPS)

Research proposals submitted to this call must contribute to advancing the state of the art in one or more of the four research themes described below :

- Information Confidentiality: design and development of novel methods tailored to specific CPS to prevent and/or assess information leakage and enhance information integrity; development of innovative physical layer security methods for improved privacy and security.
- Security: risk-based security analysis and testing and the design and development of novel security-aware methods tailored to specific CPS; understanding, modelling and managing of access protection and distributed data, and the reconciliation of security and safety requirements.
- Change Management: new methods tailored to specific CPS for the prediction and detection of changes, including response under attack; methods to cope with changes, systems-aware components and adaptability of the system to different requirements.
- Human Factors: modelling human interaction with CPS, understanding of human factors in decision making, and understanding human needs and requirements within the system.

Human Language Understanding: Grounding Language Learning (HLU)

Any research proposal submitted to this call must identify a human language processing task for which the following two conditions apply:

1. progress can be expected from using new types of data in addition to those traditionally used in the domain of human language processing, and
2. progress can be measured experimentally, with possibly innovative but in any case well defined metrics and protocols.

The proposal must describe how it targets such progress. It should in particular provide information on the tools, techniques, models, methods and approaches it plans to develop. It must also include clear plans for acquiring and annotating data as needed and for allowing others to replicate the experiments conducted in the project, possibly through simultaneous joint experiment campaigns.

The main target outcome of a project is expected to be a new multidisciplinary approach leading to measurable progress beyond the state of the art on an identified human language processing task. Besides, making data created in the framework of the project widely available can also be an important outcome.

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

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 is focused: research must have a clearly defined goal. Consortia should normally contain between three and six partners.

Projects have a duration of either 24 or 36 months.

Research groups who are not eligible to receive funding by 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 call.

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.