News letter

Issue n° 4
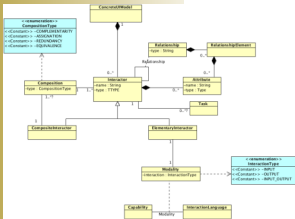## Spring 2012

UsiXML Workshop in Interact conference

Editorial

Today we bring to you the fourth UsiXML newsletter that follows the dissemination of information about our UsiXML project - the language that will enhance the business domain through a model-based approach to the design of user interfaces!

We are proud to announce that our second version of meta models are close to be distributed and our consortium is working hard to provide the End User Club with the tools for UsiXML.

Multiple demonstrators for different domains are under development in this project, one of which we document here.

D. Faure, Project Manager and J. Vanderdonckt, Scientific Coordinator.

Status of the project

Our second phase on the meta-modelling of the UsiXML language is finishing. The new versions of the meta-models have been defined and documentation is being written. Our tools designers are working hard to provide the consortium and our Supporters and Promoters with our first version of tools near May.
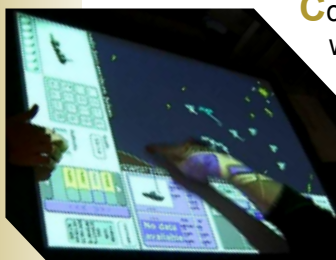
First sets of transformation rules are under design to generate user interfaces from models.

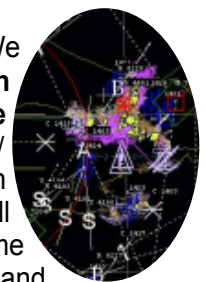**M**oreover, we have conducted some initial evaluations of our framework.

SurMar: Maritime Surveillance Demonstrator

Nowadays, airborne maritime supervision missions can be either civil or military ones. Both have become increasingly varied such as responding to **maritime pollution**, **fishing boat surveillance** or **detection of a foe/suspicious boat**. In order to achieve these missions, a crew is composed by a tactical coordinator (TACCO) and sensor operators (Sensos). The TACCO establishes the **maritime tactical picture** with the help of the Sensos managing several sensors and must maintain a **general awareness** of the supervised sea zone, in an ever-changing, uncertain environment. To increase the efficiency of the crew and the sensors, in the future, some Unmanned Airborne Vehicles (UAVs) can be sent on the area to observe the situation. This implies new issues in terms of cooperation needs (introduction of a touch table to share the information between the crew), **device and platform variety** (use of a touch table, maritime consoles, ground stations, PDA), **organization and context changes**.

Concerning interaction we will consider multiple gesture interaction. We will first provide new tools for interpreting signals from **multitouch tables**, able to recognize **complex gestures involving multiple fingers** and able to accommodate /multiple users/ simultaneously, which would be useful for many large interaction scenarios such as **interactive walls and tabletops**. Also we will consider operators equipped with multiple sensors capturing some of their movements that will be used to draw command gestures and to provide contextual information for operators' activity interpretation.

Registration

News letter

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USiXML
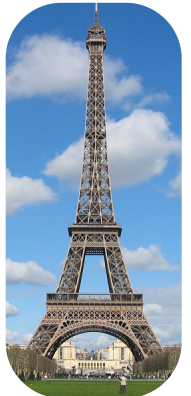
Events & Demonstrations

Co-Summit 2012

The UsiXML Consortium with more than 650 R&D players and policy makers from industry, research organisations, academia and public authorities will participate in the fith European Co-summit organised by ITEA 2 and ARTEMIS in CNIT Paris La Défense, France on Tuesday 30 & Wednesday 31 October 2012. The event will focus on the importance of cross-border cooperation in research and development on software-intensive systems and services.

Press releases / Publications

UIDL 2012 workshop in EICS conference

This workshop is aimed at investigating open issues in research and development for user interface engineering based on a User Interface Description Language (UIDL) in interactive applications. Both fundamental and applied aspects will be addressed: on the one hand, aspects that are relevant to the definition of a UIDL will be addressed (e.g., models, meta-models, language and notation); on the other, operational characteristics and constraints of a UIDL will be discussed. IT University of Copenhagen, Denmark, June 25–28, 2012.
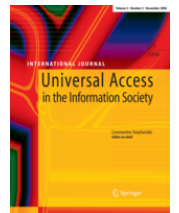
International Journal UAIS special issue on Accessibility aspects in UIDLs

The UAIS Journal solicits original research contributions addressing the accessibility, usability and acceptability of Information Society Technologies by anyone, anywhere, at anytime, and through any media and device. Universal access refers to the systematic effort to proactively apply principles, methods and tools of universal design, in order to develop Information Society Technologies which are accessible and usable by all citizens.

User Interface Description Languages - UIDLs appear as a promising approach for facilitating access: (1) to all users, including the very young and the elderly, as well as people with various types of disabilities; (2) in all contexts of use, especially those emerging due to the diffusion of novel computer applications contributing to the implementation of new design principles and paradigms, such as "mobile computing", "ubiquitous computing", "disappearing computer", "ambient intelligence", etc.

Original research contributions are solicited, which focus on the use of new interaction media and modalities with a view to improving computer accessibility for all users in all contexts of use.

UsiXML Workshop in ICWE Conference

UIDLWE'2012, the International Workshop on User Interface Description Language in Web Engineering (July 23, 2012), will held during the 12th International Conference on Web Engineering ICWE'2012 (Berlin, July 23-27, 2012). This edition will be devoted to User Interface Description Language in Web Engineering.
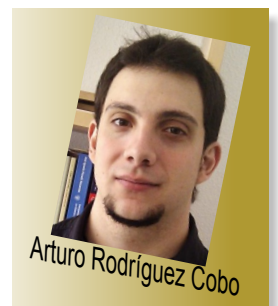
Who's who ?   Focus on Arturo' work

Arturo Rodríguez Cobo is a graduate at the Laboratory Of User Interaction & Software Engineering (LoUISE) of the University of Castilla-La Mancha (UCLM) in Albacete, Spain, under the supervision of the Prof. Víctor López-Jaquero and Prof. Francisco Montero.

His PhD research is focused on the support for Reverse Engineering. This work is mostly aimed at supporting an effortless move from traditional user interface development to model-driven user interface design, as proposed in the UsiXML project. By doing so, more software developers can become attracted to the model-driven paradigm for user interface design.

This approach is supported by the PureXML tool. It is being created to support the developers in reverse engineering their applications to embrace model-driven user interface design and reap the benefits that this form of development brings.

Arturo Rodríguez Cobo

Registration

ITEA2

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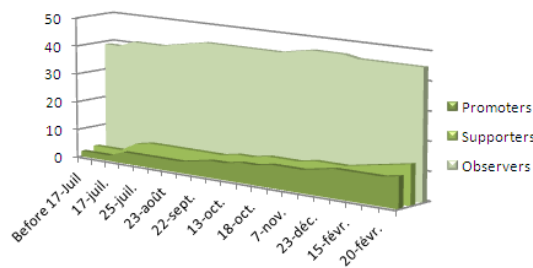
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Find us on Facebook

Steady growth !

The UsiXML End User Club is growing more and more that shows the interest of the UsiXML language for the community. A lot of Observers, Supporters and Promoters comes from academia and also from large industries and SMEs.

A network of active players interested in UsiXML developments

The End-User Club

End-User Club membership is free and will remain open! The End-User Club is the opportunity for interested parties outside of the UsiXML consortium to forge new relations with other members of the UsiXML consortium to discover opportunities for developing novel applications related to the domain and the possibility of joint participation in future RTD projects. Members of the End-User Club are entitled to participate in the UsiXML information and demonstration days, to open discussions, seminars and tutorials, as well as to special events such as workshops organized in conjunction with key international conferences.

Current Supporters and Promoters of UsiXML End User Club were provided with access to our state of the art on User Interface Description Language, to the description of the workflow system to integrate new evolutions into the UsiXML language, to the first version of the tools requirements and now they will be given access to the released tools. Do not hesitate to register ! www.usixml.eu/end_user_club

End User Club members

Observers

Express their interest for the project, its goals, scientific results, methods, tools or demonstrators.

I am Observer of USIXML

Supporters

Express their interest for specific results of the project (from meta-models to validators) and wish to receive information.

I am Supporter of USIXML

Promoters

Express their interest for UsiXML goals and plan to create demonstrator using the UsiXML language and tools.

I am Promoter of USIXML

UsiXML End User Club Flyer can be accessed at http://www.usixml.eu/end_user_club

Registration

David.Faure@thalesgroup.com

ITEA2

Focus on partners

ATOL

ATOL - Aeronautics Technico-Operational Laboratory - is a joint research laboratory between Thales Airborne Systems, Thales Underwater Systems, Télécom Bretagne and the French Navy School (École Navale). ATOL participates in UsiXML through Télécom Bretagne, member of the Institut Mines-Télécom, a federation of graduate schools in the field of information and communication science and technology. ATOL is hosted by the LUSSI department of Télécom Bretagne, whose activities are related to the design and analysis of human-centred processes. More specifically, ATOL addresses the cognitive dimension in mission systems and provides a technical platform for experimentation. This involves innovations in human factors, HCI, collaboration, decision support and geographical information systems, in the domains of maritime surveillance and navigation. ATOL's contribution to UsiXML focuses on the modelling of multimodal interactions between operators and complex mission systems, applied to an airborne maritime surveillance use-case.

Bilbomatica

Bilbomática, S.A. (www.bilbomatica.es) is an ICT Consulting and Services company with a solid position in the Spanish and European market and with a clear expansion strategy, leveraged by its Total Quality philosophy in all its areas. Bilbomática was founded in 1988, having customer service and proximity as a clear vocation, offering integral solutions and providing added value through its widely skilled professional staff. Our company's capacity may be briefly summarized as follows: 21 years in the ICT industry; More than 360 professionals, 330 of them providing ICT services. 71% permanent staff,over 70% university graduates; 18M EUR turnover in 2009; Long experience working for Public Administration, including the European Commission and EU Agencies since 2002; ISO 9001:2000 quality certification; 20 ITIL certified staff and CMMI-L2, evaluation successfully passed in May 2009.

Vector SA

Vector Software Factory is a development company building components and advanced software solutions based on reusable components, provided under a model of software industrialization. In 2001 we sarted a Production Centers Network. It purpose is for component-oriented software development and maintenance of complex components and solutions for businesses and organizations from different sectors. We have a methodology that combines the presence of a consulting team "onsite" for the customer and remote production facilities closer to the customer "nearshore". This working model allows our customers to have the necessary infrastructure for the development of their applications without having to create a special department for this, and provides an experienced team who are specialized in new technologies. We develop tools that enable quality management rules associated with languages as well as "parsers" code that check the adequacy of the code to established standards. Our customers have an environment that allows them to control and manage the quality standards for installation and automatic environment validation rules.