



WSE 2006 The 8th IEEE Symposium on
Web Site Evolution 2006 Co-Located with ICSM2006
Philadelphia, PA - September 23-24, 2006

Final Program

Saturday September 23, 2006

Frampton Room - Sheraton Society Hill Hotel

Time	Activity
8:30- 9:00	Registration
9:00-9:15	Welcome from the Chairs
9:15-10:45	Keynote Presentation 1 Model Driven Evolution of Network-Centric Applications: Perspectives, Applications, and Issues <i>K. Kontogiannis</i>
10:45-11:00	Coffee Break
11:00-12:30	Session 1 – Modeling and Architecture Information-Hiding URLs for Easier Website Evolution <i>C. Song, V. Sazawal</i> Modeling Request Routing in Web Applications <i>M. Han, C. Hofmeister</i> WA-UML: Towards a UML extension for modelling <i>R. Ben Djemaa, I. Amous, A. Ben Hamadou</i>
12:30-14:00	Lunch (provided by WSE)
14:00-15:30	Panel Session - Web Trends and Technology Scott Tilley, Florida Institute of Technology, USA (moderator) Eleni Stroulia, University of Alberta, Canada Massimiliano Di Penta, RCOST - University of Sannio, Italy Tauhida Parveen, Florida Institute of Technology, USA
15:30-15:45	Coffee Break
15:45-17:45	Session 2 – Comprehension Using a Competitive Clustering Algorithm to Comprehend Web Applications <i>A. De Lucia, G. Scanniello, G. Tortora</i> Ontology-based Program Comprehension Tool Supporting Website Architectural Evolution <i>Y. Zhang, R. Witte, J. Rilling, V. Haarslev</i> Mining for Co-Changes in the Context of Web Localization <i>H. Kagdi, J. Maletic</i> An empirical study on the usefulness of Conallen's stereotypes in Web application comprehension <i>F. Ricca, M. Di Penta, M. Torchiano, P. Tonella, M. Ceccato</i>
17:45-18:30	Discussion
20:00-	Dinner (self-provided)

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Sunday September 24, 2006
 Cook room - Sheraton Society Hill Hotel

Time	Activity
9:00-10:30	Keynote Presentation 2 Knowing your online readership, organizing your communication <i>L. Cantoni</i>
10:30-10:45	Coffee Break
10:45-12:15	Session 3 – Accessibility and User Behaviour What is the current state of Web Accessibility? <i>J. Bailey, L. Burd</i> Requirements for Aural Web Sites <i>D. Bolchini, S. Colazzo, P. Paolini</i> Problems Modeling Web Sites and User Behavior <i>S. Rugaber, N. Harel, S. Govindharaj, D. Jerding</i>
12:45-14:00	Lunch (self-provided)
14:00-15:30	Working Session - Research Directions in Web Site Evolution
15:30-15:45	Coffee Break
15:45-17:15	Session 4 – Testing and Security Generating reduced Web application test suites from user session data <i>G. A. Di Lucca, A. R. Fasolino, P. Tramontana</i> WSDLTest - A Tool for Testing Web Services <i>H. Sneed, S. Huang</i> Eliminating SQL Injection Attacks: A Transparent Defense Mechanism <i>M. Muthusrinivasan, W. Ke, S. Kothari</i>
17:15-18:00	Discussion and Wrap-up
18:00-18:30	Open Steering Committee Meeting

Location

Sheraton Society Hill
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Keynote Abstracts

Keynote Presentation 1: Model Driven Evolution of Network-Centric Applications: Perspectives, Challenges, and Issues, by *Kostas Kontogiannis*

Abstract

Model-driven techniques have been proposed and promoted by the Software Engineering community over the past few years as a mechanism for streamlining the design, implementation and evolution of large software applications. The basic idea behind model-driven techniques is that, design artifacts of large software applications can be represented as a collection of models which can be consequently transformed and evolved to generate specific design artifacts and even source code that complies with specific programmatic paradigms and patterns.

Even though model-driven frameworks have caught the attention of the software engineering community as a way to increase programmers' productivity and overall system robustness through the disciplined manipulation and transformation of models and ultimately code generation, they have remained so far only in the form of "guidelines" or "standard practices". In this respect, important questions regarding to what types of models are required for system representation, how transformations are encoded and enacted, how model constraints are denoted and validated, and how source code is generated, is left to software vendors, software architects and software developers to further design and implement.

In this keynote presentation we will focus on the challenges, issues, emerging research topics and practical examples pertaining to the use of model-driven techniques for the design, analysis and evolution of network-centric, web-based applications. Some of these challenges in such systems include the use of multi-language paradigms, the problem of maintaining consistency between various models during system evolution, dealing with underlying technology changes, and facilitating end-product customizability

Keynote Presentation 2: Knowing your online readership, organizing your communication, by *Lorenzo Cantoni*

Abstract

Many times a design choice has a deep impact onto future website management activities, which in their turn mean allocating resources. These choices are to be verified, confirmed or refused not only against design quality and hypotheses, but mostly against actual usages.

The actual usages of a website are of the utmost importance to infer and understand interests, goals and styles of users, and are to be interpreted in order to maintain, refine and enhance the website itself. It is neither a one-off nor a one-way path, but a continuous dialogue among different people and stakeholders, requiring endless hypothesizing and testing of hypotheses (e.g.: did they leave that page soon because it wasn't relevant to them, or because they found it so relevant to print it out for further reading? Did they leave the website after accessing that page because their interest was fully satisfied, or because they didn't find anything useful? Is a page seldom accessed because it is not that interesting or because there is a cumbersome navigation? etc.).

The answers to those questions force to re-think communication strategies, as well as all other design dimensions. Moreover, an online application yields to many further exchanges, like buying, voting, subscribing, chatting, gambling, reserving, sending emails etc., activities that leave traces offering insights on our readership/users/clients, and need to be interpreted and to feed back into the website maintaining and improving processes. An overview of strategies, focuses and analysis tools will be offered, together with some fresh examples of using those data in website evolution.

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