



May 2010 EVENT

Event Theme	Requirements Management – Focus on Techniques	
Presenters	Luiz Marcio Cysneiros, Ph.D. York University.	Sergey Diev, Ph.D. Bank of Montreal
Topic Summaries	<p>Non-Functional Requirements</p> <p>Non-Functional Requirements (NFRs) have been frequently neglected or forgotten in software design. They have been presented as a second or even third class type of requirement, frequently hidden inside notes. We tackle this problem by treating NFRs as first class requirements. We present a process to elicit NFRs, analyze their interdependencies, and trace them to functional conceptual models. We focus our attention on conceptual models expressed using UML (Unified Modeling Language). Extensions to UML are proposed to allow NFRs to be expressed and traced back to its source. We will show how to integrate NFRs into the Class, Sequence and Collaboration Diagrams. This work was used in three case studies, one of them a real life development of a system to manage and operate a Clinical Analysis Laboratory, and the results suggest that by using our proposal we can improve the quality of the resulting conceptual models. This process can also be adapted to improve existing models with NFRs that were not considered before.</p>	<p>Requirements: Form and formalization</p> <p>Among many activities in requirements development, such as requirements gathering, formalization, structuring, modeling, etc., there is one that does not sometimes receive proper attention – creating requirements text (we do not use here ‘requirements writing’ because this term is often used with very broad connotation). Creating requirements text may deceptively look like a usual kind of writing. In reality it has its own rules, violation of which can make requirements much harder to read and understand, or even incorrect, while following which can make requirements more concise, easier to understand and to work with, etc.</p> <p>This presentation will review some of the rules of creating requirements text, show using examples how and why requirements text is different from conventional text, and will discuss the relationships between formalization and form in which requirements text is written.</p>
Biographies	<p>Luiz Marcio Cysneiros is an Associate Professor at York University Toronto. He has published in several conferences as well as in many prestigious Journals such as the IEEE TSE and the Requirements Engineering Journal. He also has been presenting tutorial on Non-Functional Requirements in many international conferences such as ICSE, RE and UML. Luiz Marcio has an extensive industrial experience in many different areas such as Gas distribution, Hotels, National Library and on health care domain.</p>	<p>Sergey Diev has 30+ years of experience in programming, requirements, analysis, architecture, design, and software development process. He has worked on challenging projects in many areas, including aerospace, nuclear power stations, finance, operating systems, compilers and software development tools. Sergey holds a Ph.D. degree in Computer Science from a renowned research center in Moscow; he developed and implemented several methods; he also published many papers, most recently in such areas as software estimation and requirements development.</p>
Date / Time	Wednesday, May 5 th , 2010; 05:30 pm – 08:30 pm (Presentations start at 6:00 pm)	
	Note: Light snack will be included as part of this event. Multiple food vendors are available on campus	
Location	York University – Atkinson Building – Leith Room 004 4700 Keele St Toronto, Ontario	
	York University has a lot of parking and is conveniently accessible via a number of Public Transit systems including TTC, Viva, YRT, GO, and Greyhound. For directions and maps to the campus visit: http://www.yorku.ca/web/futurestudents/map/keele_map.html	
Registration	http://www.TorontoSPIN.com \$10.00 at the door	
Future Events	June 2010	