As new concepts such as virtualization, cloud computing, and web applications continue to emerge, XML has begun to assume the role as the universal language for communication among contrasting systems that grow throughout the internet.

Innovations in XML Applications and Metadata Management: Advancing Technologies addresses the functionality between XML and its related technologies towards application development based on previous concepts. This book aims to highlight the variety of purposes for XML applications and how the technology development brings together advancements in the virtual world.

Topics Covered:

- Content Creation
- Markup Languages
- Metadata Management
- Semantic Web
- Web Services
- Web Technologies
- XML Applications
- XML Databases

Market: This premier publication is essential for all academic and research library reference collections. It is a crucial tool for academicians, researchers, and practitioners and is ideal for classroom use.

José Carlos Ramalho graduated in 1991 as a Systems and Informatics Engineer. During his graduation he has worked as a freelancer software developer and as a network technician for Apple. During this time he also taught several courses about computer programming for several public institutions. In 1991 he joined the Department of Informatics as an Assistant and started his MSc work. He has worked as a teacher since 1991 until the present. He also has been a researcher of Algoritmi’s Research Center until 2004. In 2004 he moved from Algoritmi to the newly created CCTC Research Center. He finishes his PhD in 2000 under the subject “Structured Documents Semantics”. From 1996 until the present he has been researching in Structured Documents area (currently he is coordinating several projects in Digital Archives and Libraries field). He was responsible for the creation of the conference series called XATA (starting in 2003 until now). He wrote two books and many articles presented in internacional and nacional conferences. During 2008, together with two former post-graduation students he launches KEEP Solutions, a spin-off software company focusing Information Archiving, Information Management, Information Access and Information Deployment.
Section 1: XML Standards and Dialects

Chapter 1
An Exemplar-Based Generator of XSLT Programs
Leal José Paulo (University of Porto, Portugal)
Queirós Ricardo (CRACS and ESEIG/IPP, Porto, Portugal)

Chapter 2
A Secure and Dynamic Mobile Identity Wallet Authorization Architecture Based on XMPP Messaging Infrastructure
Augusto Alexandre B. (University of Porto, Portugal)
Correia Manuel E. (University of Porto, Portugal)

Chapter 3
Making Programming Exercises Interoperable with PExIL
Queirós Ricardo (CRACS and ESEIG/IPP, Porto, Portugal)
Leal José Paulo (University of Porto, Portugal)

Chapter 4
GuessXQ:
Fonte Daniela Morais (University of Minho, Portugal)
da Cruz Daniela (University of Minho, Portugal)
Henriques Pedro Rangel (University of Minho, Portugal)
Gancarski Alda Lopes (Institut Telecom, France)

Section 2: Learning Environments

Chapter 5
On Quality Assessment of Learning Technology Specifications
Janssen José (Open Universiteit, The Netherlands)
Berlanga Adriana J. (Open Universiteit, The Netherlands)
Koper Rob (Open Universiteit, The Netherlands)

Chapter 6
MCEQLS-Approach in Multi-Criteria Evaluation of Quality of Learning Repositories
Kurilovas Eugenijus (Vilnius University, Lithuania & Vilnius Gediminas Technical University, Lithuania)

Chapter 7
Using Device Detection Techniques in M-Learning Scenarios
Queirós Ricardo (CRACS and ESEIG/IPP, Porto, Portugal)
Pinto Mário (ESEIG/IPP, Porto, Portugal)

Section 3: Databases and Repositories

Chapter 8
Preservation of Data Warehouses:
Aldeias Carlos (University of Porto, Portugal)
David Gabriel (University of Porto, Portugal)
Ribeiro Cristina (University of Porto, Portugal)

Chapter 9
New Dimension in Relational Database Preservation:
Freitas Ricardo André Pereira (Lusíada University, Portugal)
Ramalho José Carlos (University of Minho, Portugal)

Chapter 10
Managing Research Data at the University of Porto:
Rocha da Silva João (University of Porto, Portugal)
Ribeiro Cristina (University of Porto, Portugal)
Lopes João Correia (University of Porto, Portugal)

Chapter 11
Using Semantics in XML Information Access:
Ferreira Flavio Xavier (University of Minho, Portugal)
Henriques Pedro Rangel (University of Minho, Portugal)
Gancarski Alda Lopes (Institut Telecom, France)

Order Your Copy Today!

Name: __________________________________________
Organization: ___________________________________
Address: _______________________________________
City, State, Zip: __________________________________
Country: _______________________________________
Tel: _____________________________________________
Fax: _____________________________________________
E-mail: _________________________________________

☐ Enclosed is check payable to IGI Global in US Dollars, drawn on a US-based bank

☐ Credit Card ☐ Mastercard ☐ Visa ☐ Am. Express

3 or 4 Digit Security Code: _________________________
Name on Card: __________________________________
Account #: _____________________________________
Expiration Date: _________________________________