

Contents of Volume 45, 2006

Number One (G321-0160)

On demand platform for online games <i>A. Shaikh, S. Sahu, M.-C. Rosu, M. Shea, and D. Saha</i>	7
Running Quake II on a grid <i>G. Deen, M. Hammer, J. Bethencourt, I. Eiron, J. Thomas, and J. H. Kaufman</i>	21
System-performance modeling for massively multiplayer online role-playing games <i>M. Ye and L. Cheng</i>	45
Using advanced compiler technology to exploit the performance of the Cell Broadband Engine™ architecture <i>A. E. Eichenberger, J. K. O'Brien, K. M. O'Brien, P. Wu, T. Chen, P. H. Oden, D. A. Prener, J. C. Shepherd, B. So, Z. Sura, A. Wang, T. Zhang, P. Zhao, M. K. Gschwind, R. Archambault, Y. Gao, and R. Koo</i>	59
MPI microtask for programming the Cell Broadband Engine™ processor <i>M. Ohara, H. Inoue, Y. Sohda, H. Komatsu, and T. Nakatani</i>	85
High-performance server systems and the next generation of online games <i>B. D'Amora, K. Magerlein, A. Binstock, A. Nanda, and B. Yee</i>	103
Content protection for games <i>G. Myles and S. Nusser</i>	119
A context-aware smart-call-center solution: Improving customer service for online games <i>L. Luo, J. Liu, L. Shao, W. Lu, and M. Ye</i>	145
Online games and e-business: Architecture for integrating business models and services into online games <i>C. E. Sharp and M. Rowe</i>	161
A marketing maturity model for IT: Building a customer-centric IT organization <i>R. Hirschheim, A. Schwarz, and P. Todd</i>	181

Number Two (G321-0161)

Technical context and cultural consequences of XML <i>S. Adler, R. Cochrane, J. F. Morar, and A. Spector</i>	207
Generation of efficient parsers through direct compilation of XML Schema grammars <i>E. Perkins, M. Matsa, M. G. Kostoulas, A. Heifets, and N. Mendelsohn</i>	225
Integration of SQL and XQuery in IBM DB2 <i>F. Özcan, D. Chamberlin, K. Kulkarni, and J.-E. Michels</i>	245
DB2 goes hybrid: Integrating native XML and XQuery with relational data and SQL <i>K. Beyer, R. Cochrane, M. Hvizdos, V. Josifovski, J. Kleewein, G. Lapis, G. Lohman, R. Lyle, M. Nicola, F. Özcan, H. Pirahesh, N. Seemann, A. Singh, T. Truong, R. C. Van der Linden, B. Vickery, C. Zhang, and G. Zhang</i>	271
Cost-based optimization in DB2 XML <i>A. Balmin, T. Eliaz, J. Hornibrook, L. Lim, G. M. Lohman, D. Simmen, M. Wang, and C. Zhang</i>	299
The importance of sibling clustering for efficient bulkload of XML document trees <i>C. C. Kanne and G. Moerkotte</i>	321
XQuery Full-Text extensions explained <i>S. Amer-Yahia, C. Botev, J. Dörre, and J. Shanmugasundaram</i>	335
Enhancing XML search with XQuery 1.0 and XPath 2.0 Full-Text <i>P. Case</i>	353
Revolutionary impact of XML on biomedical information interoperability <i>A. Shabo, S. Rabinovici-Cohen, and P. Vortman</i>	361
Emerging patterns in the use of XML for information modeling in vertical industries <i>S. Hinkelman, D. Buddenbaum, and L.-J. Zhang</i>	373

XML mapping technology: Making connections in an XML-centric world <i>M. Roth, M. A. Hernandez, P. Coulthard, L. Yan, L. Popa, H. C.-T. Ho, and C. C. Salter</i>	389	Technical forum Using logical data models for understanding and transforming legacy business applications <i>S. Chandra, J. de Vries, J. Field, H. Hess, M. Kalidasan, K. V. Raghavan, F. Nieuwerth, G. Ramalingam, and J. Xue</i>	647
Virtual XML: A toolbox and use cases for the XML world view <i>K. H. Rose, S. Malaika, and R. J. Schloss</i>	411	Number Four (G321-0163)	
Business processes for Web Services: Principles and applications <i>R. Khalaf, A. Keller, and F. Leymann</i>	425	Beyond predictable workflows: Enhancing productivity in artful business processes <i>C. Hill, R. Yates, C. Jones, and S. L. Kogan</i>	663
Number Three (G321-0162)		Business activity patterns: A new model for collaborative business applications <i>P. Moody, D. Gruen, M. J. Muller, J. Tang, and T. P. Moran</i>	683
Model-driven development: The good, the bad, and the ugly <i>B. Hailpern and P. Tarr</i>	451	Activity management as a Web service <i>A. Cozzi, S. Farrell, T. Lau, B. A. Smith, C. Drews, J. Lin, B. Stachel, and T. P. Moran</i>	695
A Rational approach to model-driven development <i>A. W. Brown, S. Iyengar, and S. Johnston</i>	463	Activity Explorer: Activity-centric collaboration from research to product <i>W. Geyer, M. J. Muller, M. T. Moore, E. Wilcox, L.-T. Cheng, B. Brownholtz, C. Hill, and D. R. Millen</i>	713
Architectural thinking and modeling with the Architects' Workbench <i>S. Abrams, B. Bloom, P. Keyser, D. Kimelman, E. Nelson, W. Neuberger, T. Roth, I. Simmonds, S. Tang, and J. Vlissides</i>	481	Uncovering the to-dos hidden in your in-box <i>D. M. Sow, J. S. Davis II, M. R. Ebling, A. Misra, and L. Bergman</i>	739
A measurement framework for evaluating model-based test generation tools <i>A. Sinha, C. E. Williams, and P. Santhanam</i>	501	Ethnographic study of collaborative knowledge work <i>S. L. Kogan and M. J. Muller</i>	759
Model traceability <i>N. Aizenbud-Reshef, B. T. Nolan, J. Rubin, and Y. Shaham-Gafni</i>	515	Following the sun: Case studies in global software development <i>J. J. Treinen and S. L. Miller-Frost</i>	773
Multilevel models in model-driven engineering, product lines, and metaprogramming <i>D. Batory</i>	527	Machines in the conversation: Detecting themes and trends in informal communication streams <i>W. S. Spangler, J. T. Kreulen, and J. F. Newswanger</i>	785
Model-driven development: Assets and reuse <i>G. Larsen</i>	541	Technical forum Communication-minded visualization: A call to action <i>F. B. Viégas and M. Wattenberg</i>	801
Rational Software Architect: A tool for domain-specific modeling <i>D. Leroux, M. Nally, and K. Hussey</i>	555	Using ontology to support development of software architectures <i>A. Akerman and J. Tyree</i>	813
Model-driven systems development <i>L. Balmelli, D. Brown, M. Cantor, and M. Mott</i>	569	Note—Numbers in parentheses after issue numbers denote the issue order numbers.	
Model Driven Development for Business Performance Management <i>P. Chowdhary, K. Bhaskaran, N. S. Caswell, H. Chang, T. Chao, S.-K. Chen, M. Dikun, H. Lei, J.-J. Jeng, S. Kapoor, C. A. Lang, G. Mihaila, I. Stanoi, and L. Zeng</i>	587		
UML 2: A model-driven development tool <i>B. Selic</i>	607		
Feature-based survey of model transformation approaches <i>K. Czarnecki and S. Helsen</i>	621		