

**CURRICULUM VITAE**  
for  
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**EDUCATION**

**Year 1990** Ph.D. in Computer Science; Massey University, Palmerston North, New Zealand.

**Year 1984** B.Sc. (First Class Honours) in Natural Sciences; Computer Science and Mathematics majors; The University of the West Indies, St. Augustine, Trinidad and Tobago, Caribbean.

**ACADEMIC POSITIONS**

**Years (2004-)** Full Professor (tenured), Computer Science, Colorado State University.

**Years (1998-2004)** Associate Professor (tenured), Computer Science, Colorado State University.

**Years (1997-1998)** Associate Professor (tenured), Department of Computer Science and Engineering, Florida Atlantic University (FAU), Boca Raton, Florida.

**Years (1992-97)** Assistant Professor, Computer Science and Engineering Department, FAU, Boca Raton, Florida.

**Years (1990-92)** Postdoctoral Research Associate, Institute for Advanced Computer Studies, University of Maryland, College Park, Maryland.

**OTHER POSITIONS**

**Years (1985-86)** Computer Specialist, USAID Census Project, St. Vincent office of RONCO Consulting Corp.; Headquarters: 1629 K St. NW, Washington DC.

**SABBATICALS**

August 2006-July 2007: Lancaster University, UK; IRISA, Rennes, France.

## PUBLISHED/TO BE PUBLISHED WORK

### Refereed Journal Articles

1. Benoit Combemale, Julien Deantoni, Benoit Baudry, Robert France, Jean-Marc Jezequel, Jeff Gray, 2014, Globalizing Modeling Languages, in *IEEE Computer*, Volume 47, Issue 6, 68-71.
2. Mathieu Acher, Philippe Collet, Philippe Lahire, and Robert France, 2013, FAMILIAR: A Domain-Specific Language for Large Scale Management of Feature Models, in *Science of Computer Programming*, Volume 78, Issue 6, 657-681.
3. Ramadan Abdunabi, Mustafa Al-Lail, Indrakshi Ray and Robert B. France, 2013, Specification, Validation, and Enforcement of a Generalized Spatio-Temporal Role-Based Access Control Model, accepted for publication in *IEEE Systems Journal*, Volume 7, Issue 3, 501-515.
4. Mathieu Acher, Philippe Collet, Alban Gaignard, Philippe Lahire, Johan Montagnat and Robert France, 2012, Composing Multiple Variability Artifacts to Assemble Coherent Workflows, *Software Quality Journal*, September 2012, Volume 20, Issue 3-4, 689-734.
5. Yali Wu, Andrew A. Allen, Frank Hernandez, Robert B. France, and Peter J. Clarke., 2011, A Model Driven Approach to Realizing User-Centric Communication Services, in *Software Practice and Experience*, John Wiley & Sons, Ltd.
6. Barrett R. Bryant, Jeff Gray, Marjan Mernik, Peter J. Clarke, Robert B. France, Gabor Karsai, 2011, Challenges and Directions in Formalizing the Semantics of Modeling Languages, *Computer Science and Information Systems*, ComSIS Consortium.
7. Sebastien Mosser, Mireille Blay-Fornarino, and Robert France, 2010, Workflow Design using Fragment Composition Crisis Management System Design through ADORE, *Transactions on Aspect-Oriented Software Development*, Lecture Notes in Computer Science (LNCS), Springer, Vol 6210/2010.
8. Benoit Baudry, Sudipto Ghosh, Franck Fleurey, Robert France, Yves Le Traon and Jean-Marie Mottu, 2010, Barriers to Systematic Model Transformation Testing, *Communications of the ACM*, Vol. 53, No. 6, 2010.
9. Murray Woodside, Dorina C. Petriu, Dorin B. Petriu, Jing Xu, Tauseef Israr, Geri Georg, Robert France, James M. Bieman, Siv Hilde Houmb, Jan Jurjens, 2009, Performance Analysis of Security Aspects by Weaving Scenarios Extracted from UML Models, *The Journal of Systems & Software*, Vol. 82, No. 1, January 2009, 56-74.
10. Orest Pilskalns, Anneliese Andrews, Andrew Knight, Sudipto Ghosh, Robert France, 2007, Testing UML Designs, *Information & Software Technology*, Elsevier.
11. B. Henderson-Sellers, R. France, G. Georg, R. Reddy, 2007, A method engineering approach to developing aspect-oriented modelling processes based on the OPEN process framework, *Information & Software Technology*, Elsevier.
12. R. France, S. Ghosh, T. Dinh-Trong, and A. Solberg, 2006, Model-Driven Development Using UML 2.0: Promises and Pitfalls, *IEEE Computer*, Vol. 39, No. 2, February 2006, 59-66 (Cover Feature article).

13. D. Simmonds, A. Solberg, R. Reddy, R. France, and S. Ghosh, 2006, Developing Service-Oriented Systems Using and Aspect-Oriented Model Driven Framework, in *International Journal of Cooperative Information Systems, Special Issue on Enterprise Distributed Object Computing*.
14. Y. R. Reddy, S. Ghosh, R. France, G. Straw, J. Bieman, N. McEachen, E. Song, and G. Georg, 2005, Directives for Composing Aspect-Oriented Design Class Models, *The Transactions on Aspect-Oriented Software Development*, LNCS 3880, 75-105.
15. A. Andrews, E. Mancebo, P. Runeson, R. France, 2005, A Framework for Design Tradeoffs, *Software Quality Control*, Vol. 13, No. 4, 2005, 377-405.
16. Daniel Turk, Robert France, Bernhard Rumpe, 2005, Assumptions Underlying Agile Software Development Processes, *Journal of Database Management*, Special Issue on Agile Information Systems Development.
17. Sudipto Ghosh, Robert France, Devon Simmonds, Abhijit Bare, Brahmila Kamalakar, Roopashree P. Shankar, Gagan Tandon, Peter Vile, Shuxin Yin, 2004, A Middleware Transparent Approach to Developing Distributed Applications, *Software Practice and Experience*, Vol. 35, May 2005, 1131-1154.
18. Robert France, Indrakshi Ray, Geri Georg, Sudipto Ghosh, 2004, An Aspect-Oriented Approach to Design Modeling, *IEE Proceedings - Software*, Special Issue on Early Aspects: Aspect-Oriented Requirements Engineering and Architecture Design, Vol. 151, No. 4, August 2004, 173-185.
19. Robert France, Dae-Kyoo Kim, Sudipto Ghosh, Eunjee Song, 2004, A UML-Based Pattern Specification Technique, *IEEE Transactions on Software Engineering*, Vol. 30, No. 3, March 2004, 193-206.
20. Dae-Kyoo Kim, Robert France, Sudipto Ghosh, 2004, A UML-Based Language for Specifying Domain-Specific Patterns, *Journal of Visual Languages and Computing*, Vol. 15, Elsevier, 265-289, **(Second most downloaded paper for the journal in 2004, seventh most downloaded paper in 2005)**.
21. Indrakshi Ray, Robert France, Na Li, Geri Georg, 2004, An Aspect-Based Approach to Modeling Access Control Concerns, *Information & Software Technology*, Vol. 46, Elsevier, 575-587.
22. Robert France, Sudipto Ghosh, Eunjee Song, Dae-Kyoo Kim, 2003, A Metamodeling Approach to Pattern-based Model Refactoring, *IEEE Software*, Vol. 20, No. 5, September/October 2003, 52-58.
23. Anneliese Andrews, Robert France, Sudipto Ghosh, Gerald Craig, 2003, Test Adequacy Criteria for UML Design Models, *Journal of Software Testing, Verification and Reliability*, Vol. 13, No. 2, April-June 2003, 95-127.
24. Robert France, Sudipto Ghosh, and Dan Turk, 2003, Supporting Effective Software Modeling, *L'Objet: Software, Databases, Networks*, Vol. 9, No. 4/2003, 11-29.
25. Anneliese vonMayrhauser, Robert France, Michael Scheetz, Eric Dahlman, 2000, Generating Test Cases from an Object-Oriented Model with an Artificial Intelligence Planning System, *IEEE Transactions on Reliability*, Vol. 49, No. 1, 26-36.

26. Kevin Lano, Robert B. France, and Jean-Michel Bruel, 2000, A Semantic Comparison of Fusion and Syntropy, *The Computer Journal*, Vol. 43, No. 6, 451-468.
27. Emanuel Grant, Robert France, Sam Hsu, 2000, Towards an Internet-based Education Model for Caribbean Countries, *Journal of Educational Media*, Vol. 25, No. 1, Taylor & Francis Ltd/Commonwealth of Learning, 21-30.
28. Monika Saksena, Robert France, Maria Larrondo-Petrie, 1999, A Characterization of Aggregation, *International Journal of Computer Systems Science & Engineering*, Vol. 14, No. 6, CRL Publishing Ltd., 363-370.
29. Robert France, Andy Evans, Kevin Lano, and Bernhard Rumpe, 1998, The UML as a Formal Modeling Notation, *Computer Standards & Interfaces*, Vol. 19, Elsevier, 325-334.
30. Robert France, Jean-Michel Bruel, and Maria M. Larrondo-Petrie, 1997, An Integrated Object-Oriented and Formal Modeling Environment, *Journal of Object-Oriented Programming*, Vol 10, No. 7, 25-34.
31. Robert France, 1993, A Predicative Basis for Structured Analysis Specification Tools, *Information and Software Technology*, Vol. 35, No. 2, 67-77.
32. Lesley T. Semmens, Robert B. France, and Thomas W. G. Docker, 1992, Integrated Structured Analysis and Formal Specification Techniques, *The Computer Journal*, Vol. 35, No. 6, 600-610.
33. Robert France, 1992, Semantically Extended Data Flow Diagrams: A Formal Specification Tool, *IEEE Transactions on Software Engineering*, Vol. 18, No. 4, 329-346.

### Invited Papers

1. Robert B. France, Bernhard Rumpe, 2007, Model-driven Development of Complex Software: A Research Roadmap, In: *The International Conference on Software Engineering (ICSE): Future of Software Engineering*, Minneapolis, May 2007. FOSE is an invitation-only ICSE track that is held (approx.) every 7 or more years at ICSE. FOSE 2007 Editors: Lionel Briand, Alex Wolf.

### Book Chapters

1. Walter Cazzola, Nicole Alicia Rossini, Phillipa Bennett, Sai Pradeep Mandalaparty, Robert France, 2014, Fine-grained semi-automated runtime evolution, published in *Models@run.time: Foundations, Applications, and Roadmaps*, editors: Nelly Bencomo, Robert France, Betty H. C. Cheng, Uwe Assmann, Springer, LNCS, Volume 8378 2014, 237-258.
2. Amel Bennaceur, Robert France, Giordano Tamburrelli, Thomas Vogel, Pieter J. Mosterman, Walter Cazzola, Fabio M. Costa, Alfonso Pierantonio, Matthias Tichy, Mehmet Ak?it, Pr Emmanuelson, Huang Gang, Nikolaos Georgantas, David Redlich, 2014, Mechanisms for Leveraging Models at Runtime in Self-adaptive Software, published in *Models@run.time: Foundations, Applications, and Roadmaps*, editors: Nelly Bencomo, Robert France, Betty H. C. Cheng, Uwe Assmann, Springer, LNCS, Volume 8378 2014, 19-46.

3. Peter J. Clarke, Yali Wu, Andrew A. Allen, Frank Hernandez, Mark Allison, and Robert France, 2012, Towards Dynamic Semantics for Synthesizing Interpreted DSMLs, published in *Formal and Practical Aspects of Domain-Specific Languages: Recent Developments (2012)*, editor: Marjan Mernik, IGI Global, 242-269.
4. Siv Hilde Houmb, Geri Georg, Dorina C. Petriu, Behzad Bordbar, Indrakshi Ray, Kyriakos Anastasakis, and Robert B. France, 2009, Balancing Security and Performance Properties During System Architectural Design, published in *Software Engineering for Secure Systems: Industrial and Research Perspectives*, editor: Haris Mouratidis.
5. S. Hilde Houmb, G. Georg, J. Jurjens, and R. France, 2007, An Integrated Security Verification and Security Design Trade-off Analysis Approach, published in *Integrating Security and Software Engineering*, editors Dr. Mouratidis and Dr. Giorgini, Idea Group Inc.
6. D. Simmonds, R. France, and S. Ghosh, 2006, Using Directives to Implement Model Transformations, published in *From MDD Concepts to Experiments and Illustrations*, editors: Jean-Philippe Babau, Joel Champeau, and Sebastien Gerard, ISTE Ltd., pp 25-41.
7. Robert France, 2005, Modeling Dependability Features, published in *Model Driven Engineering for Distributed Real-time Embedded Systems*, editors: Sebastien Gerard, Jean-Philippe Babau, and Joel Champeau, Hermes.
8. Robert France, Dae-Kyoo Kim, Eunjee Song, Sudipto Ghosh, 2003, Using Roles to Characterize Model Families, published in *Practical foundations of business and system specifications*, editor: Haim Kilov, Kluwer.
9. Andy Evans, Robert France, Kevin Lano, Bernhard Rumpe, 1999, Meta-Modelling Semantics of UML, published in *Advances in Formalizing the Semantics of UML*, editor: Haim Kilov, Kluwer.
10. Robert France, 1996, The goal-concern-points technique: A Caribbean case study, published in *Managing Information Technology in the Developing World: Choices, Strategies, and Competitive Advantages*, editors: E. Roche and M. Blaine, Avebury, 125-138.

### Refereed Conference Proceedings

1. Filip Krikava, Philippe Collet, Robert France, 2014, SIGMA: Scala Internal Domain-Specific Languages for Model Manipulations, in Proceedings of the ACM/IEEE 17th International Conference on Model Driven Engineering Languages and Systems, Valencia, Spain, October 2014.
2. Filip Krikava, Philippe Collet, Robert France, 2014, Manipulating Models Using Internal Domain-Specific Languages, in Proceedings of the 29th Annual ACM Symposium on Applied Computing, Gyeongju, Republic of Korea, 2014.
3. Filip Krikava, Philippe Collet, Robert France, 2014, ACTRESS: Domain-Specific Modeling of Self-Adaptive Software Architectures, in Proceedings of the 29th Annual ACM Symposium on Applied Computing, Gyeongju, Republic of Korea, 2014.
4. Mohammed Al-Refai, Walter Cazzola, Robert France, 2014, Using Models to Dynamically Refactor Runtime Code, in Proceedings of the 29th Annual ACM Symposium on Applied Computing, Gyeongju, Republic of Korea, 2014.

5. Tony Clark, Vinay Kulkarni, Balbir Barn, Robert France, Ulrich Frank, Dan Turk, 2014, Towards the Model Driven Organization, in Proceedings of the 47th Hawaii International Conference on System Sciences (HICSS), Hawaii, January 2014.
6. Philippe Collet, Philippe Lahire, Mathieu Acher, Robert France, 2013, Feature Model Management: Smart Operations and Language Support, in Proceedings of the ACM/IEEE 16th International Conference on Model Driven Engineering Languages and Systems, Miami, Florida, USA, October 2013.
7. Hector M Chavez, Wuwei Shen, Robert B France, Benjamin A Mechling, 2013, An Approach to Testing Java Implementation against Its UML Class Model, in Proceedings of the ACM/IEEE 16th International Conference on Model Driven Engineering Languages and Systems, Miami, Florida, USA, October 2013.
8. Walter Cazzola, Nicole Alicia Rossini, Mohammed Al-Refai, Robert B France, 2013, Fine-Grained Software Evolution Using UML Activity and Class Models, in Proceedings of the ACM/IEEE 16th International Conference on Model Driven Engineering Languages and Systems, Miami, Florida, USA, October 2013.
9. Wuliang Sun, Robert B France, Indrakshi Ray, 2013, Contract-Aware Slicing of UML Class Models, in Proceedings of the ACM/IEEE 16th International Conference on Model Driven Engineering Languages and Systems, Miami, Florida, USA, October 2013, 724-739.
10. Mathieu Acher, Benoit Combemale, Philippe Collet, Olivier Barais, Philippe Lahire, Robert B France, 2013, Composing your Compositions of Variability Models, in Proceedings of the ACM/IEEE 16th International Conference on Model Driven Engineering Languages and Systems, Miami, Florida, USA, October 2013, 352-369.
11. Benoit Combemale, Julien De Antoni, Matias Vara Larsen, Frdric Mallet, Olivier Barais, Benoit Baudry, Robert B France, 2013, Reifying Concurrency for Executable Metamodeling, in Proceedings of Software Language Engineering, January 2013, 365-384.
12. Wuliang Sun, Benoit Combemale, Steven Derrien, Robert B France, 2013, Using model types to support contract-aware model substitutability, in Proceedings of 9th European Conference on Modelling Foundations and Applications (ECMFA 2013), 118-133.
13. Mustafa Al-Lail, Ramadan Abdunabi, Robert B France, Indrakshi Ray, 2013, Rigorous Analysis of Temporal Access Control Properties in Mobile Systems, in Proceedings of 18th IEEE International Conference on the Engineering of Complex Computer Systems (ICECCS), July 2013, 246-251.
14. Ramadan Abdunabi, Indrakshi Ray, Robert B France, 2013, Specification and analysis of access control policies for mobile applications, in Proceedings of SACMAT, June 2013, 173-184.
15. Lijun Yu, Robert B. France, Indrakshi Ray, and Wuliang Sun, 2012, Systematic Scenario-Based Analysis of UML Design Class Models, Proceedings of the 13th IEEE International Conference on Engineering of Complex Computer Systems (ICECCS), Paris, France, July 2012, 86-95. (Acceptance rate 29)
16. Mathieu Acher, Philippe Collet, Philippe Lahire, and Robert France, 2012, Separation of Concerns in Feature Modeling, Proceedings of Aspect-Oriented Software Development (AOSD) 2012.

17. Wuliang Sun, Robert France, Indrakshi Ray, 2011, Supporting Iterative Development of Robust Operation Contracts in UML Requirements Models, Proceedings of the 13th IEEE International High Assurance Systems Engineering Symposium (HASE), Boca Raton, FL, November 2011.
18. Mickael Clavreul, Sebastien Mosser, Mireille Blay-Fornarino, Robert B. France, 2011, Service-oriented Architecture Modeling: Bridging the Gap Between Structure and Behavior, Proceedings of MODELS 2011, Wellington, New Zealand, October 2011.
19. Tomofumi Yuki, Antoine Floch, Steven Derrien, Benot Combemale, Sanjay Rajopadhye, Robert France, Clement Guy, 2011, Model-Driven Engineering and Optimizing Compilers: A bridge too far?, Proceedings of MODELS 2011, Wellington, New Zealand, October 2011.
20. Mathieu Acher, Philippe Collet, Philippe Lahire, and Robert France, 2011, Slicing Feature Models, Proceedings of Automated Software Engineering (ASE), short paper (acceptance rate 22%), ACM/IEEE, USA, 6-11 November 2011.
21. Mathieu Acher, Philippe Collet, Philippe Lahire, and Robert France, 2011, Decomposing Feature Models: Language, Environment, and Applications, Proceedings of Automated Software Engineering (ASE), demonstration paper, ACM/IEEE, USA, 6-11 November 2011.
22. Yali Wu, Frank Hernandez, Peter J. Clarke, Robert B. France, 2011, A DSML for Coordinating User-Centric Communication Services, Proceedings of COMPSAC 2011, Munich, Germany, 18-22 July, 2011.
23. Wuliang Sun, Robert B. France, Indrakshi Ray, 2011, Rigorous Analysis of UML Access Control Policy Models, Proceedings of POLICY 2011, Italy, 6-8 June, 2011.
24. Mathieu Acher, Philippe Collet, Philippe Lahire, and Robert France, 2011, A Domain-Specific Language for Managing Feature Models, Proceedings of the Symposium on Applied Computing (SAC), Programming Languages Track, ACM, Taiwan, 21-25 March 2011 (Accept Rate: 33%).
25. Mathieu Acher, Philippe Collet, Philippe Lahire, and Robert France, 2011, Managing Feature Models with FAMILIAR: a Demonstration of the Language and its Tool Support, in Proceedings of the Fifth International Workshop on Variability Modelling of Software-intensive Systems (VaMoS), 27-29 January 2011.
26. Yali Wu, Frank Hernandez, Francisco Ortega, Peter J. Clarke, Robert France, 2010, Measuring the Effort for Creating and Using Domain-Specific Models, Proceedings of the 10th SPLASH Workshop on Domain-Specific Modeling (DSM'10).
27. Mathieu Acher, Philippe Collet, Philippe Lahire, Robert France, 2010, Comparing Approaches to Implement Feature Model Composition, in Proceedings of the 6th European Conference on Modelling Foundations and Applications (ECMFA), vol. LNCS, pages 16, Springer, France, 15-18 June 2010 (Accept Rate: 31%)
28. Mathieu Acher, Philippe Collet, Philippe Lahire, Robert France, 2010, Managing Variability in Workflow with Feature Model Composition Operators, in Proceedings of the 9th International Conference on Software Composition (SC'10), vol. LNCS, pages 16, Springer, Malaga (Spain), June 28-July 2 2010 (Accept Rate: 28%)

29. Mathieu Acher, Philippe Collet, Philippe Lahire, Robert France, 2009, Composing Feature Models, (long paper) in Proceedings of the 2nd International Conference on Software Language Engineering (SLE'09), pages 20, LNCS, Denver, Colorado, USA, 5-6 Oct 2009 (Accept Rate: 19%)
30. Lijun Yu, Robert France, Indrakshi Ray, Sudipto Ghosh, 2009, A Rigorous Approach to Uncovering Security Policy Violations in UML Designs, In: *Proceedings of the 14th International Conference on Engineering of Complex Computer Systems*, IEEE Computer Society, 126-135.
31. Lijun Yu, Robert France, Indrakshi Ray, 2008, Scenario-based Static Analysis of UML Behavioral Properties, In: *Proceedings of MODELS, 2008*, LNCS 5301, 234-248. (Acceptance Rate 21%).
32. Lijun Yu, Robert France, Indrakshi Ray, Kevin Lano, 2007, A Light-weight Static Approach to Analyzing Behavioral Properties, In: *Proceedings of the International Conference on Engineering Complex Computer Systems (ICECCS)*, Auckland, New Zealand, July 2007.
33. Sten Lundesgaard, Arnor Solberg, Jon Oldevik, Robert France, Jan Oyvind Aagedal, Frank Eliassen, 2007, Construction and Execution of Adaptable Applications Using an Aspect-Oriented and Model Driven Approach, In: *Proceedings of IFIP DAIS 2007*, LNCS 4531, 76-89.
34. Lydia Michotte, Robert France, Franck Fleurey, 2007, Modeling and Integrating Architectural Software Fault Tolerance Features. In: Proceedings of the 11th IEEE International EDOC Conference (EDOC 2007), Annapolis Maryland, U.S.A.
35. R. France, F. Fleurey, R. Reddy, B. Baudry, and S. Ghosh, 2007, Providing Support for Model Composition in Metamodels. In: *Proceedings of EDOC 2007*, Annapolis, MD, USA, October 2007.
36. Eunjee Song, Robert France, Indrakshi Ray, and Hanil Kim, 2007, Checking Policy Enforcement in an Access Control Aspect Model, In: *International Conference on Convergence Technology and Information Convergence*, Anaheim, California, USA, Nov. 5-7, 2007.
37. Dorina Petriu, Murray Woodside, Dorin Petriu, Jing Xu, Tauseef Israr, Geri Georg, Robert France, James Bieman, Siv Hilde Houmb, Jan Jrjens, 2006, Performance Analysis of Security Aspects in UML Models, Sixth International Workshop on Software Performance (WOSP 2007), Buenos Aires, Argentina, February 5-8, 2007. (Acceptance rate 33%)
38. T. Dinh-Trong, S. Ghosh, and R. B. France, 2006, A Systematic Approach to Generate Inputs to Test UML Design Models, In: *Proceedings of the 17th IEEE International Symposium on Software Reliability Engineering (ISSRE)*, Raleigh, North Carolina, 6-10 November 2006.
39. D. Simmonds, A. Solberg, R. Reddy, R. B. France, and S. Ghosh, 2005, An Aspect Oriented Model Driven Framework, In: *Proceedings of the 9th International Enterprise Distributed Object Computing Conference (EDOC 2005)*, Enschede, The Netherlands, September 19-23, 2005.
40. A. Solberg, D. Simmonds, R. Reddy, S. Ghosh, and R. France, 2005, Using Aspect Oriented Techniques to Support Separation of Concerns in Model Driven Development, In: *Proceedings of the 29th Annual International Computer Software and Applications Conference (COMP-SAC 2005)*, Edinburgh, Scotland, July 25-28, 2005.



41. Siv Hilde Homb, Geri Georg, Robert France, James M. Bieman, Jan Jurjens, 2005. Cost-Benefit Trade-Off Analysis using BBN for Aspect-Oriented Risk-Driven Development, In: *Proceedings of the 10th IEEE International Conference on Engineering of Complex Computer Systems (ICECCS)*, Shanghai, China, June 16-20, 2005.
42. T. Dinh-Trong, N. Kawane, S. Ghosh, R. France, A. A. Andrews, 2005, A Tool-Supported Approach to Testing UML Design Models, In: *Proceedings of the 10th IEEE International Conference on Engineering of Complex Computer Systems (ICECCS)*, Shanghai, China, June 16-20, 2005.
43. Eunjee Song, Raghu Reddy, Robert France, Indrakshi Ray, Geri Georg, Roger Alexander, 2005, Verifiable Composition of Access Control Features and Applications, In: *Proceedings of the 10th ACM Symposium on Access Control Models and Technologies (SACMAT 2005)*, Scandic Hasselbacken, Stockholm, June 1-3, 2005.
44. Siv Hilde Homb, Geri Georg, Robert France, Raghu Reddy, and James Bieman, 2005, Predicting availability of systems using BBN in Aspect-Oriented Risk-Driven Development, In: *Proceedings of the Symposium on Risk Management and Cyber-Informatics (RMCI 2005)*, Orlando, Florida, July, 2005.
45. Geri Georg, Raghu Reddy, Robert France, 2004, Specifying Cross-Cutting Requirements Concerns, In: *Proceedings of the International Conference on the UML*, October 2004. (Acceptance rate 22%)
46. Greg Straw, Geri Georg, Eunjee Song, Sudipto Ghosh, Robert France, Jim Bieman, 2004, Model Composition Directives, In: *Proceedings of the International Conference on the UML*, October 2004. (Acceptance rate 22%)
47. Indrakshi Ray, Na Li, Robert France, Dae-Kyoo Kim, 2004, Using UML to Visualize Role-Based Access Control Constraints, In: *Proceedings of the Symposium on Access Control Models and Technologies (SACMAT 2004)*, 115-124.
48. Dae-Kyoo Kim, Indrakshi Ray, Robert France and Na li, 2004, Modeling Role-Based Access Control Using Parameterized UML Models, In: *Proceedings of the 7th Conference on Fundamental Approaches to Software Engineering (FASE 2004)*, 180-193. (Acceptance rate 23%)
49. Sheena Judson, Robert France, Doris Carver, 2004, Supporting Rigorous Evolution of UML Models, In: *Proceedings of the International Conference on Engineering Complex Computer Systems 2004 (ICECCS 2004)*, 128-137.
50. Anneliese Andrews, Per Runeson, and Robert France, 2004, Requirements Trade-offs During UML Design, In: *Proceedings of the 11th IEEE International Conference and Workshop on the Engineering of Computer-Based Systems (ECBS 2004)*, 282-292.
51. Sudipto Ghosh, Robert France, Conrad Braganza, Nilesh Kawane, Anneliese Andrews and Orest Pilskalns, 2003, Test Adequacy Assessment for UML Design Model Testing, In: *Proceedings of International Symposium on Software Reliability Engineering (ISSRE 2003)*, 332-343.
52. Dae Kyoo Kim, Robert France, Sudipto Ghosh, and Eunjee Song, 2003, A Role-Based Meta-modeling Approach to Specifying Design Patterns, In: *Proceedings of 27th Annual International Computer Software and Applications Conference (COMPSAC 2003)*, 452-457.

53. Orest Pilskalns, Anneliese Andrews, Sudipto Ghosh, and Robert France, 2003, Rigorous Testing by Merging Structural and Behavioral UML Representations, In: *Proceedings of the 6th International Conference on the Unified Modeling Language (UML 2003)*, 234-248.
54. Devon Simmonds, Sudipto Ghosh, and Robert France, 2003, An MDA Framework for Middleware Transparent Software Development and Quality of Service, In: *Proceedings of Workshop on Qos in Component-Based Software Engineering*, Toulouse, France, June 20, 2003.
55. Indrakshi Ray, Na Li, Dae-Kyoo Kim, Robert France, 2003, Using Parameterized UML to Specify and Compose Access Control Models, In: *Proceedings of Sixth IFIP TC-11 WG 11.5 Working Conference on Integrity and Internal Control in Information Systems (IICIS 2003)*, Kluwer Academic Publishers.
56. Geri Georg, Indrakshi Ray, Robert France, 2002, Using Aspects to Design a Secure System, In: *Proceedings of the International Conference on Engineering Complex Computing Systems (ICECCS 2002)*, 117-126.
57. Dae-Kyoo Kim, Robert France, Sudipto Ghosh, Eunjee Song, 2002, Using Role-Based Modeling Language (RBML) as Precise Characterizations of Model Families, In: *Proceedings of the International Conference on Engineering Complex Computing Systems (ICECCS 2002)*, 107-116.
58. Geri Georg, Robert France, Indrakshi Ray, 2002, Designing High Integrity Systems using Aspects, In: *Proceedings of the Fifth IFIP TC-11 WG 11.5 Working Conference on Integrity and Internal Control in Information Systems (IICIS 2002)*, 37-57.
59. Dan Turk, Robert France, Bernhard Rumpe, 2002, Limitations of Agile Software Processes, In: *Proceedings of the Conference on Extreme Programming and Agile Processes in Software Engineering*.
60. Robert B. France, James Bieman, 2001, Multi-View Software Evolution: A UML-based Framework for Evolving Object-Oriented Software, In: *Proceedings of the International Conference on Software Maintenance (ICSM 2001)*, 386-394.
61. Jean-Michel Bruel, Brian Henderson-Sellers, Franck Barbier, Alain le Parc, Robert B. France, 2001, Improving the UML Metamodel to Rigorously Specify Aggregation and Composition, In: *proceedings of the 7th International Conference on Object-Oriented Information Systems (OOIS 2001)*, Springer, 5-14.
62. Robert B. France, Sudipto Ghosh, Daniel Turk, 2001, Towards a Model-Driven Approach to Reuse, In: *Proceedings of the 7th International Conference on Object-Oriented Information Systems (OOIS 2001)*, Springer, 181-190.
63. Robert France, Jean-Michel Bruel, 2000, A UML profile for rigorous requirements modeling, In: *Proceedings of the Software Engineering and Applications conference (SEA '2000)*.
64. Emanuel Grant, Robert France, Ramchander Varadarajan, Adam Carheden, Jean-Michel Bruel, 2000, UML2Z: An UML-Based Object-Oriented Modeling Tool for an Internet Integrated Formalization Process, In: *Proceedings of the Int. Conference on Object-Oriented Information Systems (OOIS'2000)*, 280-289.

65. Robert France, 1999, A Problem-Oriented Analysis of Basic UML Static Modeling Concepts, In: *Proceedings of OOPSLA '99*, ACM SIGPLAN Notices, vol. 34, no. 10, 57-69 (**the 5th most downloaded paper from the ACM's Digital Library in May 2005**).
66. Michael Scheetz, Anneliese von Mayrhauser, Robert France, Eric Dahlman, and Adele Howe, 1999, Generating Test Cases from an OO Model with an AI Planning System, In: *Proceedings of ISSRE'99*, IEEE-Press.
67. Robert B. France, Maha Boughdadi, Robert Busser, 1999, An Industrial Application of an Integrated UML and SDL Modeling Technique, In: *Proceedings of the 23rd International Computer Software and Applications Conference (COMPSAC'99)*, IEEE-Press.
68. Peter Breuer, Natividad Martinez Madrid, Jonathan Bowen, Robert France, and Maria Larrondo-Petrie, 1999, Reasoning about VHDL and VHDL-AMS using Denotational Semantics, In: *Proceedings of 1999 Design, Automation, and Test in Europe (DATE)*, 346-352.
69. Robert B. France, Robert Busser, Maha Boughdadi, 1998, Incorporating a Formal Design Technique in an Industrial Setting, In: *Proceedings of The Ninth International Symposium on Software Reliability Engineering (ISSRE'98)*, IEEE Press.
70. Monika Saksena, Robert B. France, Maria M. Larrondo-Petrie, 1998, A Characterization of Aggregation, In: *Proceedings of the 1998 International Conference on Object Oriented Information Systems (OOIS'98)*, Springer, 11-19.
71. Andy Evans, Robert France, Kevin Lano, Bernhard Rumpe, 1998, The UML as a Formal Modeling Notation, In: *Proceedings of the UML'98 International Conference, Mulhouse, France*, Springer-Verlag, 336-348. **Awarded the Ten Year Most Influential Paper at MODELS 2008.**
72. Monika Saksena, Maria Larrondo-Petrie, Robert France, Matthew Evett, 1998, Extending the Notion of Aggregation in UML, In: *Proceedings of the UML'98 International Conference, Mulhouse, France*, Springer-Verlag, 434-441.
73. Robert B. France and Jean-Michel Bruel, Applying Fusion/UML to the Invoicing Problem, 1998, In: *Proceedings of the Int. Workshop on: Comparing Systems Specification Techniques*, eds. Michel Allemand, Chritian Attiogbe and Henri Habrias, Institut de Recherche en Informatique de Nantes, ISBN = 2-906082-29-5.
74. Robert B. France, Jean-Michel Bruel, Maria M. Larrondo-Petrie, Emanuel Grant, 1997, Rigorous Object-Oriented Modeling: Integrating Formal and Informal Notations, In: *Proceedings of the 6th International AMAST Conference*, 216-230.
75. Robert B. France, Andy Evans, Kevin Lano, 1997, The UML as a Formal Modeling Notation, In: *Proceedings of the OOPSLA'97 Workshop on Object-Oriented Behavioral Semantics*, TUM-I9737, Institut fur Informatik der Technischen Universitat Munchen, 75-82.
76. Robert B. France, Jean-Michel Bruel, and Gopal Raghavan, 1997, Towards Rigorous Analysis of Fusion Models: The MIRG Experience, In: *Proceedings of the 2nd Northern Formal Methods Workshop*, Springer-Verlag.
77. Robert B. France, Jean-Michel Bruel, Monika Saksena, Emanuel Grant, and Maria M. Larrondo-Petrie, 1997, Towards a Rigorous Object-Oriented Analysis and Design Method, In: *Proceedings of the 1st IEEE International Conference on Formal Engineering Methods*, IEEE Press.

78. Robert B. France, 1997, Towards Practical Formal Modeling Techniques for Complex Systems, In: *Proceedings of the 2nd IEEE Real-time Education Workshop*, IEEE Press, 110-115.
79. Robert B. France, Jean-Michel Bruel, Maria M. Larrondo-Petrie, and Malcolm Shroff, 1997, Exploring the Semantics of UML Type Structures with Z, In: *Proceedings of the Formal Methods for Open Object-based Distributed Systems (FMOODS'97)*, Springer, 247-257.
80. Malcolm Shroff and Robert B. France, 1997, Towards a Formalization of UML Class Structures in Z, In *Proceedings of the 21st Computer Software and Application Conference (COMP-SAC'97)*, IEEE Press, 646-651.
81. Maria M. Larrondo-Petrie, Robert B. France, Monika Saskena, and Malcolm Shroff, 1997, Towards a Formal Semantic Base for the Type Models of the Unified Modeling Language, In: *Proceedings of Formal Methods Pacific (FMP'97)*, Springer, 124-141.
82. Jacques Meekel, Thomas B. Horton, Robert B. France, Charlie Mellone, & Sajid Dalvi, 1997, From Domain Models to Architecture Frameworks, In: *Proceedings of the 1997 ACM Symposium on Software Reusability*, ACM, 75-80.
83. Robert B. France, Jean-Michel Bruel, and Gopal Raghavan, 1997, Taming the Octopus: Using formal models to integrate the Octopus object oriented analysis models, In: *Proceedings of the 2nd IEEE High-Assurance Systems Engineering Workshop (HASE'97)*, IEEE Press, 8-13.
84. Jean-Michel Bruel, Robert B. France, Abdelmalek Benzeki, and Yves Raynaud, 1996, A Real-Time Specification Environment Based on Z and Graphical Object-Oriented Modeling Techniques, In: *Proceedings of the HASE'96*, IEEE Press.
85. Jean-Michel Bruel, Robert B. France, and Eduardo Fernandez, 1996, Formal Specification of a Multimedia Conferencing Authorization System, In: *Proceedings of OOPSLA Fifth Workshop on Behavioral Semantics*, Institute for Information Management, Robert Morris College, 19-32.
86. Robert B. France and Jean-Michel Bruel, 1996, Formal Analysis of Information Systems using an Integrated Approach based on Extended Petri Nets, In: *Proceedings of the International Conference on Information Systems Analysis and Synthesis (ISAS'96)*, International Institute of Informatics and Systemics, 169-176.
87. Robert B. France and Jean-Michel Bruel, 1996, The Role of Integrated Specification Techniques in Teaching Complex System Modeling and Analysis, In: *Proceedings of the Workshop on Real-Time Systems Education*, IEEE Press, 111-119.
88. Jean-Michel Bruel, Robert B. France, Bharat Chintapally and Gopal Raghavan, 1996, A Tool for Rigorous Analysis of Object Models, In: *Proceedings of the 20th International Conference on Technology of Object-Oriented Languages and Systems (TOOLS'96)*.
89. Jean-Michel Bruel and Robert B. France and Abdelmalek Benzekri, 1996, Real-Time and Safety Critical Systems Specification: a Z-based Specification Environment, In: *Proceedings of the ISCA 9th International Conference on Computer Applications in Industry and Engineering (CAiNE'96)*, ISCA.
90. Jean-Michel Bruel, Robert B. France, Maria M. Larrondo-Petrie, Bharat Chintapally, and Gopal K. Raghavan, 1996, CASE-based Rigorous Object-Oriented Modeling, In: *Proceedings of the Northern Formal Methods Workshop (NFMW'96)*, electronic proceedings.

91. Jean-Michel Bruel, Robert B. France and Abdelmalek Benzekri, 1996, A Z-based Approach to Specifying and Analyzing Complex Systems, In: *Proceedings of the Second IEEE International Conference on Engineering of Complex Computer Systems (ICECCS'96)*, IEEE Press, 336-343.
92. Brian W. Bates, Jean-Michel Bruel, Robert B. France and Maria M. Larrondo-Petrie, 1996, Guidelines for Formalizing Fusion Object Oriented Analysis Models, In: *Proceedings of the 8th International Conference on Advanced Information Systems Engineering (CAiSE'96)*, LNCS 1080, Springer-Verlag, 222-233.
93. J.-M. Bruel and Robert B. France, 1996, A Formal Object-Oriented CASE Tool for the Development of Complex Systems, in *Proceedings of the 7th European Workshop on Next Generation of CASE Tools, NGCT'96*, Information Systems Group, Norwegian University of Science & Technology, 11-21.
94. Robert B. France, J. Wu, Maria M. Larrondo-Petrie, and Jean-Michel Bruel, 1996, A Tale of Two Case Studies: Using Integrated Methods to Support Rigorous Requirements Specification, In: *Proceedings of the BCS FACS Methods Integration Workshop*, Springer Electronic Workshops in Computing, <http://www.springer.co.uk/eWiC/Workshops/MI96.html>.
95. Brian W. Bates, Jean-Michel Bruel, Robert B. France and Maria M. Larrondo-Petrie, 1996, Formalizing Fusion Object Oriented Analysis Models, In: *Proceedings of the First IFIP International workshop on Formal Methods for Open Object-based Distributed Systems (FMOODS'96)*, 53-69.
96. R. B. France and M. M. Larrondo-Petrie, 1995, A Two-Dimensional View of Integrated Formal and Informal Specification Techniques, In: *Proceedings of the Z Users Meeting'95*, Springer-Verlag, LNCS 967, 434-448.
97. E. B. Fernandez, R. B. France, and D. Wei, 1995, A Formal Specification of an Authorization Model for Object-Oriented Databases, in *Database Security IX: Status and Prospectus*, D. Spooner, S. Demurjian and J. Dobson, Eds., Chapman & Hall, London, 1996, 95-110.
98. E. B. Fernandez and R. B. France, 1995, Formal Specification of Real-Time Dependable Systems, In: *Proceedings of the International Conference on Engineering of Complex Computer Systems (ICECCS'95)*, IEEE Press, 342-348.
99. R. B. France and M. M. Larrondo-Petrie, 1995, Understanding the Role of Formal Specification Techniques in Requirements Engineering, In: *Proceedings of the Conference on Software Engineering Education'95*, Springer-Verlag.
100. R. B. France and T. B. Horton, 1995, Applying Domain Analysis and Modeling: An Industrial Experience, In: *Proceedings of the Symposium on Software Reuse'95*, ACM Press, 206-214.
101. R. B. France and J. Wu, 1994, Towards Systematic Formalization of Informal requirements Specifications: A Case Study on the Vending Machine Problem, In: *Proceedings of the ISCA International Conference on Computer Applications in Industry and Engineering*, ISCA, 37-40.
102. R. B. France, and M. Larrondo-Petrie, 1994, From Structured Analysis to Formal Specifications: State of the Theory, In: *Proceedings of the ACM Computer Science Conference*, ACM Press, 249-256.

103. R. B. France and T. W. G. Docker, 1993, Towards CASE tool support for rigorous structured analysis, In: *Proceedings of the International Conference on Computing and Information*, IEEE Press, 474-478.
104. R. B. France and T. W. G. Docker, 1989, Formal Specification using Structured Systems Analysis, In: *Proceedings of the European Software Engineering Conference '89*, Springer Verlag, 292-310.
105. T. W. G. Docker and R. B. France, 1989, Flexibility and Rigour in Structured Analysis, In: *Proceedings of the IFIP Information Processing '89*, Elsevier Science Publishers B. V., 89-94.
106. R. B. France and T. W. G. Docker, 1987, A Formal Basis for Structured Analysis, in *2nd IEE/BCS Conference on Software Engineering 88*, 1988, 191-195.
107. R. B. France, T. W. G. Docker, & C. H. E. Phillips, Towards the Integration of Formal and Informal Techniques in Software Development Environments, In: *Proceedings of the New Zealand Computer Conference*, NZCS, R-57 - R-74.

## Refereed Workshop Papers (Major Workshops only)

1. Filip Krikava, Philippe Collet, Robert B France, 2012. Actor-based Runtime Model of Adaptable Feedback Control Loops. In Proceeding of the 2012 International Workshop on Models@Runtime in association with MODELS 2012.
2. C. Jeanneret, R. France, and B. Baudry, 2008. A reference process for model composition. In Proceedings of the 2008 AOSD Workshop on Aspect-Oriented Modeling (Brussels, Belgium, April 01 - 01, 2008). AOM '08. ACM, New York, NY, 1-6. DOI= <http://doi.acm.org/10.1145/1404920.1404921>
3. F. Fleurey, B. Baudry, R. France, and S. Ghosh, 2007, A Generic Approach For Automatic Model Composition, *Proceedings of Aspect Oriented Modeling (AOM) Workshop associated to MoDELS'07*, LNCS 5002/2008, Springer, 2008, 7-15. (Awarded a Best Paper).
4. B. Baudry, T. Dinh-Trong, J-M. Mottu, D. Simmonds, R. France, S. Ghosh, F. Fleurey, and Y. Le Traon, 2006, Model Transformation Testing Challenges, ECMDA Workshop on Integration of Model-Driven Development and Model Driven Testing, 10-13 July, 2006, Spain.
5. T. Dinh-Trong, S. Ghosh, R. B. France, M. Hamilton, and B. Wilkins (2005), UMLAnT: An Eclipse Plugin for Animating and Testing UML Designs, *Eclipse Technology Exchange Workshop*, in conjunction with OOPSLA, San Diego, USA.
6. Trung Dinh-Trong, Sudipto Ghosh, Robert France, Benoit Baudry, Franck Fleurey, 2005, A Taxonomy of Faults for UML Models, *Second Workshop on Model Design and Validation* held in conjunction with MoDELS 2005.
7. Trung Dinh-Trong, Sudipto Ghosh, Robert France, and Anneliese Andrews, 2005, Generating Test Data to test UML Design Models, *MoDELS 2005 Second Workshop on Model Design and Validation*, October 2005, Jamaica.
8. Benoit Baudry, Franck Fleurey, Robert France, Raghu Reddy, 2005, Exploring the Relationship between Model Composition and Model Transformation, *MoDELS 2005 Aspect-Oriented Modeling Workshop*, October 2005, Jamaica.
9. Raghu Reddy, Robert France, Sudipto Ghosh, Franck Fleurey, Benoit Baudry, 2005, Model Composition: A Signature-Based Approach, *MoDELS 2005 Aspect-Oriented Modeling Workshop*, October 2005, Jamaica.
10. Arnor Solberg, Robert France, 2005, Navigating the MetaMuddle, *MoDELS Fourth Workshop in Software Model Engineering*, October 2005, Jamaica.
11. Raghu Reddy, Robert France and Geri Georg, 2005, Aspect Oriented Modeling approach to Analyzing Dependability Features, *Aspect Oriented Modeling workshop* held in conjunction with Aspect Oriented Software Development (AOSD 2005) conference, March 14-18, 2005, Chicago.
12. Sheena Judson, Doris Carver, and Robert France, 2003, A Metamodeling Approach to Model Transformation, *OOPSLA 2003 Workshop Proceedings*, 326-327.

13. Robert B. France, Sudipto Ghosh, Indrakshi Ray, James M. Bieman, Geri Georg and Roger T. Alexander, 2003, Evaluating Competing Dependability Concern Realizations in an Aspect-Oriented Modeling Framework (Fast Abstract), *Supplementary Proceedings of the International Symposium on Software Reliability Engineering (ISSRE 2003)*, Denver, U.S.A., November 2003. (Acceptance ratio 40/51)
14. Robert France, Geri Georg and Indrakshi Ray, 2003, Supporting Multi-Dimensional Separation of Concerns, *AOSD Workshop on Aspect-Oriented Modeling with UML*.
15. Geri Georg, Robert France and Indrakshi Ray, 2003, Creating security mechanism aspect models from abstract security aspect models, *Workshop on Critical Systems Development with UML, UML'03 Conference*.
16. Sheena R. Judson and Robert France, 2003, Model Transformations at the Metamodel Level, *Workshop in Software Model Engineering, UML'03 Conference*.
17. Dae-Kyoo Kim, Robert France, Sudipto Ghosh and Eunjee Song, 2003, A UML-Based Meta-modeling Language to Specify Design Patterns, *Workshop in Software Model Engineering, UML'03 Conference*.
18. Geri Georg, Robert France and Indrakshi Ray, 2003, Composing Aspect Models, *The 4th AOSD Modeling With UML Workshop, UML'03 Conference*.
19. Devon Simmonds, Sudipto Ghosh, and Robert France, 2003 An MDA Framework for Middleware Transparent Software Development, *IEEE RTAS 2003 Model-Driven Embedded Systems Workshop*.
20. Devon Simmonds, Sudipto Ghosh, and Robert France, 2003, An Aspect Oriented Model Driven Architectural Framework for Middleware Transparency, *Early Aspects 2003, AOSD Workshop on Aspect-Oriented Requirements Engineering and Architecture Design*.
21. D. Simmonds, S. Ghosh and R. B. France, 2003, Middleware Transparent Software Development and the MDA, *UML 2003 Workshop in Software Model Engineering (WisME)*.
22. Dae-Kyoo Kim, Robert France, Sudipto Ghosh and Eunjee Song, 2003, A UML-Based Meta-modeling Language to Specify Design Patterns, *UML 2003 Workshop on Software Model Engineering with UML*.
23. Geri Georg, Robert France, Indrakshi Ray, 2002, An Aspect-Based Approach to Modeling Security Concerns, *UML 2002 Workshop on Critical Systems Development with UML*.
24. Geri Georg, Robert France, 2002, UML Aspect Specification Using Role Models (short paper), *OOIS'02*, Springer.
25. Francois Mekerke, Geri Georg, Robert France, and Roger Alexander, 2002, Tool Support for Aspect-Oriented Design, in *Advances in Object-Oriented Information Systems: OOIS 2002 Workshops*, Springer-Verlag, 280-289.
26. Tony Clark, Andy Evans, Robert France, 2002, Object-Oriented Theories for Model-Driven Architecture, in *Advances in Object-Oriented Information Systems: OOIS2002 Workshops*, Springer-Verlag, 235-244.



27. Robert B. France, Dae-Kyoo Kim, Eunjee Song, Sudipto Ghosh, 2001, Using Roles to Characterize Model Families, *Tenth OOPSLA Workshop on Behavioral Semantics: Back to the Basics*.
28. Geri George, James Bieman, Robert France, 2001, Using Alloy and UML/OCL to Specify Run-Time Configuration Management: A Case Study, *UML Workshop on the Practical UML-Based Rigorous Development Methods*, GI-Edition, Lecture Notes in Informatics.
29. Ray Trask, Robert France, 2001, RIGR - A Repository Model Based Approach to Management, *UML Workshop on the Practical UML-Based Rigorous Development Methods*, GI-Edition, Lecture Notes in Informatics.
30. Robert France, James Bieman, Ray Trask, 2001, Extending UML to support Evolution Management, *Industrial short paper for the International Conference on Software Maintenance 2001*.
31. Andy Evans, Robert France, Emanuel Grant, 1999, Towards Formal Reasoning with UML Models, *OOPSLA'99 Workshop on Behavioral Semantics*.
32. Jean-Michel Bruel, Robert B. France, 1998, Transforming UML models to formal specifications, *OOPSLA'98 Workshop on Formalizing UML: Why? How?*.
33. A. Evans, J-M. Bruel, R. B. France, K. Lano, B. Rumpe, 1998, Making UML Precise, *OOPSLA'98 Workshop on Formalizing UML: Why? How?*.
34. Robert B. France, Emanuel Grant, 1998, A Rigorous Object-Oriented and Analysis Techniques, *9th annual Caribbean Academy of Sciences Meeting*.
35. Sam Hsu, Robert B. France, Gopal Raghavan, Maha Boughdadi, 1998, Towards Internet-based Education in the Caribbean, *9th annual Caribbean Academy of Sciences Meeting*.
36. Robert B. France, Jean-Michel Bruel, 1997, Integrated Informal Object-Oriented and Formal Modeling Techniques, *ECOOP'97 Workshop on Precise Semantics for Object-Oriented Modeling Techniques*.
37. R. France, M. Evett, E. Grant, 1997, Towards Semantic-Based Object-Oriented CASE Tools, *Automatic Software Engineering Conference*.
38. Maria M. Larrondo-Petrie, Robert B. France, and Jean-Michel Bruel, 1996, Introducing Formal Specification Techniques into the Undergraduate Software Engineering Curriculum, *the Exploring Formal Methods in the Computer Science Curriculum Workshop, New York, USA*.
39. R. B. France, E. B. Fernandez, & D. Wei, 1995, A formal Specification of User Group Model for Data Security, *Software Engineering Research Forum (SERF'95)*.
40. J. Theobalds & R. B. France, 1995, A Survey of Software Reuse in Industry, *Software Engineering Research Forum (SERF'95)*.

### **Proceedings and Journal Editing**

1. Radu Calinescu, Robert France, Carlo Ghezzi (Eds.), 2013, Springer Computing Special Issue on Models@runtime. Springer-Verlag, Berlin, Heidelberg.

2. Robert B. France, Juergen Kazmeier, Ruth Breu, and Colin Atkinson (Eds.). 2012. Proceedings of the 15th International Conference on Model Driven Engineering Languages and Systems. Springer-Verlag, Berlin, Heidelberg.
3. Robert B. France, Jochen M. Kuester, Behzad Bordbar, and Richard F. Paige (Eds.). 2011. Proceedings of the 7th European Conference on Modelling Foundations and Applications. Springer-Verlag, Berlin, Heidelberg.
4. Gordon Blair, Nelly Bencomo, Robert France, 2009, IEEE Computer Special Issue on Models@run.time, Vol. 42, No. 10, Oct. 2009.
5. Robert France, Jean-Marc Jezequel, 2009, Transactions on Aspect-Oriented Software Development Special Issue on Aspects and Model-Driven Development, LNCS 5560, Springer.
6. Joao Araujo, Jonathan Whittle, Jose Ambrosio Toval Alvarez, and Robert France, 2002, Integration and Transformation of UML Models, ECOOP 2002 Workshop Reader, Springer.
7. Daniel Turk, Robert France, Bernhard Rumpe, and Geri Georg, 2002, Model-Driven Approaches to Software Development, OOIS 2002 Workshop Proceedings.
8. Andy Evans, Robert France, Ana Moreira, Bernhard Rumpe, 2001, Practical UML-based Rigorous Development Methods - Countering or Integrating the eXtremists, UML 2001 Workshop.
9. Bernhard Beckert, Robert France, Reiner H"hnle, Bart Jacobs, 2001, PMD '01: Precise Modelling and Deduction for Object-oriented Software Development International Workshop at IJCAR 2001.
10. Jean-Michel Bruel, Johan Lilius, Ana Moreira and Robert France, 2000, Defining Precise Semantics for UML, ECOOP 2000 Workshop Reader, Springer LNCS 1964.
11. Robert France, Bernhard Rumpe, 1999, <<UML>>'99 - The Unified Modeling Language: Beyond the Standard, Springer LNCS 1723.
12. Stuart Kent, Bernhard Rumpe, Andy Evans, Robert France, Is a Precise Semantics Desirable? For What Purpose?, ECOOP 1999 Workshop Reader.
13. Susan Gerhart, Robert France, Maria Larrondo-Petrie, 1995, Workshop on Industrial-Strength Formal Specification Techniques 1995, IEEE Computer Society Press.

## CONTRACTS & GRANTS

### Federal Grants

- 2013-2015:** Engaging the Computer Science Community in Curricula Development Initiatives; NSF; PI: Robert France, Co-PIs: Mark Ardis, Stevens Institute of Technology; Eric Durant, Milwaukee School of Engineering; \$10,000.
- 2013-2016:** Collaborative Research: CI-ADDO-EN: Research Repository for Model-Driven Software Development (REMODD); NSF; PI: Robert France; Co-PIs: Betty Cheng (Michigan State University), Jim Bieman; \$499,290 (CSU).
- 2013-2015:** Comprehensive Carbon Metric Tools and Integrated Architecture; NSF; PI: Keith Paustian; Investigator: Robert France.
- 2012-2013:** Model-Driven Engineering Languages and Systems Conference Participant Fundin; NSF; PI: Geri Georg, Co-PIs: Robert France, Jeff Gray (University of Alabama), \$15,000.
- 2010-2014:** International: Research Experience for US Students at INRIA - REUSSI; PI: Robert France; \$150,000.
- 2010-2015:** SHF:Small:Scenario-Based Analysis of Design Models, NSF; PI: Robert France; \$499,862.
- 2009-2013):** Repository for Model Driven Development (ReMODD) - Collaborative Project with Michigan State University (MSU), National Science Foundation (NSF); PI: Robert France; CO-PIs: Betty Cheng (MSU), Jim Bieman; \$215,752 (CSU).
- 2006-2008:** Repository for Model Driven Development (ReMODD), National Science Foundation (NSF); PI: Robert France; CO-PIs: Betty Cheng, Jim Bieman; \$100,000.
- 2002-2006:** Testing Unified Modeling Language Designs, National Science Foundation (NSF); PI: Robert France; CO-PIs: Anneliese Andrews, Sudipto Ghosh; \$360,000.
- 2005:** REU Supplement to Testing Unified Modeling Designs, NSF, PI: Robert France; CO-PIs: Anneliese Andrews, Sudipto Ghosh; \$8,350.
- 2005-2007:** Planning Visits: Collaborative Research on Model-Driven Development of Complex Software Systems, NSF; PI: Robert France; CO-PIs: Sudipto Ghosh, Jim Bieman; \$23,000. (Funds to support travel to Norway, France and Canada to work with research collaborators).
- 2004-2007:** Aspect-Oriented Approach to Policy Specification, Air Force Office of Scientific Research (AFOSR), PI: Indrakshi Ray, Co-PI: Robert France \$300,024.
- 1998-2001:** A Formal Basis for Object-Oriented Modeling, NSF, PI: Robert France, \$175,238.
- 1994-1997:** Incorporating formal specification techniques into structured and object-oriented analysis and design processes, National Science Foundation (NSF), Research Initiation Award, PI: Robert France, \$93,970.
- 1996:** Request for equipment and software to support transferring RIA research to classroom, NSF, CISE Educational Supplement, \$19,200.

**1998-2000:** Modern Development Practices in Undergraduate Software Engineering Courses, National Science Foundation (NSF), PI: Tom Horton (FAU), Co-PIs: Robert France, Neal Coulter, \$19,325.

### **State and Industry Research Grants**

**2001-2002:** An Architectural Approach to Reuse of Business and System Models, Colorado Advanced Software Institute (CASI) and Qwest, PI: Robert France, \$80,000.

**2000-2001:** Developing an OO Modeling Framework to Support Requirements and Design Reuse, Qwest Information Technologies, PI: Robert France, \$20,943.

**2000-2001:** A Tool Support for Rigorous Analysis of UML Class Diagrams, CASI Undergraduate Research Support, PI: Robert France, \$3,000

**1997-1998:** Motorola/FAU CASE Project, PI: Robert France, Co-PI: Dr. Tom Horton, Motorola, \$100,000.

**1997-1998:** Scenario-based Analysis Representations for Complex Systems, PIs: Robert France, Dr. Tom Horton, Motorola Inc. (Corporate Software Research and Development, Schaumburg, IL.), \$7,339.

**1997-1998:** Software Engineering for Real-time Embedded Systems, PI: Robert France, Co-PI: Tom Horton, Motorola Inc. (ISP Group, Boynton Beach), \$10,286.

**1994-1995:** Research on object-oriented modeling of Water Management Models, PI: Robert France, Co-PI: Maria Larrondo-Petrie, South Florida Water Management District, \$30,000.

**1994:** Software Reuse, Motorola, PI: Robert France, \$25,185.13.

**1993:** Adopting Reengineering and Reuse Technologies, Motorola, PI: Robert France, \$25,694.64.

### **Industry Research Contracts**

**July-December 2002:** Research contract with John Deere Co.  
Work Summary: Using UML Models to Manage Enterprise Applications.

**Summer 2000; January-May 2001:** Research contract with Qwest.  
Work Summary: Developing and implementing a strategy for reuse of OO models within Qwest.

**May-August 1997:** Research contract with Motorola Paging Products Group, Boynton Beach, Florida.  
Work Summary: Rigorous software development with Promela/SPIN and SDL.

**June-Dec. 1996:** Research contract with Motorola Paging Products Group, Boynton Beach, Florida.  
Work Summary: Domain engineering of pager products resulted in the development of generic, reusable software architecture and components.

**May-Aug. 1995:** Research contract with Motorola Paging Products Group, Boynton Beach, Florida. Work Summary: Domain analysis and modeling of pager products.

## Other Grants

**Years ( 1996-1998):** Graduate student support for implementation of reuse support technology, PI: Robert France, Co-PI: Tom Horton, Motorola, \$5,510.

**Years (1996-1997):** Computer Aided Refinement Engineering for Hardware, PIs: Jonathan Bowen (Oxford University, UK), Peter Breuer (Spain), Robert France, Maria Larrondo-Petrie (Florida Atlantic University), NATO Collaborative Grant Application, \$30,000.

**Years(1996):** The SVG World Wide Web Project, Government of St. Vincent and the Grenadines, \$3,667.

**Years (1995):** Funds to support the 1995 Workshop on Industrial Strength Formal Specification Techniques (WIFT'95), National Science Foundation, Co-PI: Maria Larrondo-Petrie, \$10,000.

**Sept.-Oct. 1995:** Object-oriented software engineering training course for Casi-Rusco, Boca Raton, Florida. Course focused on the use of the Object Modeling Technique (OMT) and the Fusion Method for modeling software requirements and design.

## Other Industry Contracts

**1990-1991:** Contracted by St. Vincent and the Grenadines Electric Utility to analyze their information system needs and evaluate proposed solutions.

## HONORS AND AWARDS

**2014 :** Senior Dahl-Nygaard Prize. Awarded for research on adding formal semantics to object-oriented modelling notations. For details see <http://www.aito.org/Dahl-Nygaard/2014.html>

**2014 :** Colorado State University, College of Natural Sciences 2014 Professor Laureate. For details see <http://www.natsci.colostate.edu/about-us/awards-recognition/professor-laureates/>

**2013 :** INRIA International Chair (2013-2018), INRIA, France. This award provides funds to visit INRIA laboratories to collaborate on research and give seminars over a 5 year period.

**2008 :** Ten Year Most Influential Paper Award: awarded at MODELS 2008.  
Andy Evans, Robert France, Kevin Lano, Bernhard Rumpe, 1998, The UML as a Formal Modeling Notation, In: *Proceedings of the UML'98 International Conference, Mulhouse, France*, Springer-Verlag, 336-348.

**2007 :** A Best Paper: MODELS 2007 Workshop on Aspect Oriented Modeling (AOM), TN, USA, Oct. 2007; Fleurey, B. Baudry, R. France, and S. Ghosh, *A Generic Approach For Automatic Model Composition*.

**2002 :** Best Paper Award - International Conference on Engineering of Complex Computer Systems (ICECCS 2002), 2002;  
Geri Georg, Indrakshi Ray, Robert France, *Using Aspects to Design a Secure System*.

**1999 :** Best Paper Award - The Tel-isphere'99 Commonwealth of Learning conference, Bridgetown, Barbados, 1999  
Emanuel S. Grant, Robert B. France, *Towards an Internet-Based Education Model for Caribbean Countries*.

**1998** : Best Paper Award - The Ninth International Symposium on Software Reliability Engineering (ISSRE'98), Paderborn, Germany, 1998  
Robert B. France, Robert Busser, Maha Boughdadi, *Incorporating a Formal Design Technique in an Industrial Setting*.

**1993** : Research Initiation Award (predecessor to CAREER Awards), National Science Foundation.

## **PROFESSIONAL AFFILIATIONS AND ACTIVITIES**

### **Invited Talks and Panels**

**2014** :

1. Keynote Speaker, 2014 European Conference on Object-Oriented Programming (ECOOP), “How do you like your models? Towards empathetic design of software modeling methods and tools”, July 2014.

**2012** :

1. Invited Panelist, SPRUCE Virtual Panel on Model Based System Engineering, “Model Based Systems Engineering: A solution to complexity or a complex solution”, February 2012.
2. Invited Speaker, GDR-GPL Conference 2012, Rennes, France, “The Fall and Rise of Model Driven Development (MDD)”, June 2012.
3. Invited Speaker, MODELS 2012 Workshop on Model-Driven Engineering, Verification, and Validation (MODEVVA), Innsbruck, Austria, “Why usable model analysis techniques are key to MDD success”, October 2012.
4. Invited Talk at Simula Research Labs, Norway, January 2012.
5. Invited Talk at INRIA Sophia-Antipolis, France, July 2012.
6. Invited Talk at University of Toulouse, France; December 2012.

**2011** :

1. Invited Speaker, MODELS 2011 Educators’ Symposium, Wellington, New Zealand, “Teaching Student Programmers How to Model: Opportunities & Challenges”, October 18, 2010.
2. Invited Speaker, MODELS 2011 Modeling Visions Track, New Zealand, “A Future Without Model-Driven Software Development”, October 20, 2011.
3. Invited Talk at University of Aachen RWTH, June 21, 2011.
4. Invited Talk at Sintef, Norway; June 14, 2011.
5. Invited Speaker at 3rd International Workshop on Model-Based Software and Data Integration MBSDI 2011, Birmingham, UK, June 6, 2011.
6. Invited Speaker at the Conference on Engineering of Computer-Based Systems (ECBS), April 29, 2011.

**2010 :**

1. Invited Speaker at NSF/Microsoft Workshop on Usable Verification, November 2010: Bridging the Formal Techniques and Model-Driven Engineering Divide.
2. Invited Talk on Model Driven Engineering at IRIT/University of Toulouse, Toulouse, France, November 2010.
3. Invited Talk, Ludwig Maximilians University, Munich, Germany, September 2010: Why Modeling is Essential to Software Engineering
4. Keynote at ECOOP NSF-sponsored workshop on Formalizing Modeling Languages (FML), June 2010: The UML as a Formal Modeling Notation: Are We There Yet?
5. Invited Talk, University of Alabama, Tuscaloosa, February 2010: Avoiding Software Muddles
6. Invited Talk, University of Alabama at Birmingham, February 2010: Analyzing UML Models

**2009 :**

1. Invited Talk, INRIA Sophia-Antipolis, France, July 3, 2009: Why Modeling is Essential to Software Engineering.
2. Invited Talk, Sintef, Norway, May 2009: Research challenges in MDE.
3. Invited Talk, International Council on System Engineering (INCOSE), Colorado Front Range Chapter, Ball Aerospace, Boulder, February 16, 2009: Realizing the Model Driven Engineering Vision.
4. Keynote Address, First Caribbean Conference on Information and Communications Technology (CCICT 2009), University of the West Indies, Mona, Jamaica, March 16-17, 2009: Model-driven Development of Complex Systems: A Research Roadmap.

**2008 :**

1. MODELS 2008 Panel Moderator: The Past and Future of Model Driven Engineering; Panelists: Grady Booch (IBM); Richard Soley (Chairman, OMG); Jeff Kramer (Imperial College); Bran Selic (Malina Software); Patrick Farail (Airbus).
2. Invited Talk, Florida International University, February 2008; Title: Realizing the Model-Driven Engineering Vision of Software Development.

**2007 :**

1. Panelist, The Future of Aspect Modeling: Will MDD absorb it?; MODELS 2007, Tennessee, USA.
2. Panelist, Evaluating MDE Research: Are We Doing Enough?; MODELS 2007, Tennessee, USA.
3. Invited Talk, ENSIETA, Brest, France, June 2007; Title: Model-driven Development of Complex Software: A Research Roadmap.
4. Invited Talk, University of Essen-Duisburg, Essen, Germany, June 2007; Title: Repository for Model Driven Development.
5. Invited Talk, EPFL, Lausanne, Switzerland, February 26, 2007; Title: Developing Dependable Systems Using Aspect-Oriented Modeling Techniques.

6. Invited Speaker; ICECCS 2007 Workshop on UML & AADL, Auckland, New Zealand, July 2007; Title: Model-Driven Engineering.
7. Invited Talk, French LMO Conference (Langages et Modeles a Objets; see <http://lmo2007.enseeiht.fr/>), Toulouse, France, March 29; Title: Realizing the Model Driven Engineering Vision
8. Invited Talk, Paris 6 University, Paris, France, April 2007; Title: Aspect-Oriented Modeling.

**2006 :**

1. Invited Talk , Open University, December 2006; Title: Model-Driven Engineering of Complex Software: Challenges and Promises.
2. Invited Talk , Trinity College, Dublin, November 2006; Title: Model-Driven Engineering of Complex Software: Challenges and Promises.
3. Invited Talk , Birmingham University, November 2006; Title: Testing Executable Design Models.
4. Invited Seminar , National Center for Atmospheric Research (NCAR), Boulder, Colorado, August 2006; Title: Model-Driven Software Development.

**2005 :**

1. Invited Speaker at the 24th International Conference on Computer Safety, Reliability AND Security (SAFECOMP 2005), Norway, 2005; Title: Model-Driven Development of Dependable Systems: Challenges and Pitfalls .
2. Invited Speaker at the Jamaica Computer Society Conference, Jamaica, 2005.

**2003 :**

1. Invited Talk on Model Transformations and Aspects: University of Rennes/IRISA Lab, France, June 2003.
2. Invited Talk, "What's New in UML 2.0: An Overview of Component, Activity, Interaction Diagrams, Profiles", University of Pau, Pau, France.
3. Invited Speaker, Workshop on Quality of Service in Component-Based Software Engineering, Toulouse, France, June 20, 2003.

**2002 :**

1. Invited Speaker, UML 2002 Workshop on Aspect Oriented Modeling, UML 2002 Conference, September 30, 2002, Dresden, Germany.
2. Invited Speaker, Fourth Workshop on Rigorous Object Oriented Modeling (ROOM 4), March 21-22, 2002, King's College, London, UK.

**2000 :** Invited Talk, Rigorous Software Development using the UML: Faking Informality, Institut Fur Informatik der Technischen Universitat Munchen, Munich, Germany.

**1997 :**

1. Invited Talk, Integrating Formal and Object-Oriented Techniques, University Carlos III of Madrid, Spain.



2. Invited Seminar, Rigorous Software Development with SPIN and SDL, Motorola Paging Division, Boynton Beach, Florida.

**1994** : Invited Seminar, Systematic Reuse, Motorola Paging Division, Boynton Beach, Florida.

**1992** : Invited Talk, Methods Integration Research, IEEE-CS Florida local chapter meeting, Boca Raton, Florida.

### **Tutorials and Summer School Lectures**

**2011** : Invited Lecturer, University of the West Indies, University of Technology, Summer School on Object-Oriented Modeling, Jamaica; July 18-22, 2011.

**2009** : Invited Lecturer, 4th International School on Model-Driven Development for Distributed Realtime Embedded Systems, Aussois, France, April 20-24, 2009: Navigating the MDE RoadMap: Are we there yet?

**2006** : Invited Lecturer at the ENSIETA Summer School on MDA for Embedded Systems, September, 2006, Brest, France.

**2005** : Invited Tutorial on UML 2.0 at the Jamaica Computer Society Conference.

**2004** : Invited Lecturer at the ENSIETA Summer School on MDA for Embedded Systems, September, 2004, Brest, France.

**2002** : Invited Lecturer at the ENSIETA Summer School on MDA for Embedded Systems, September, 2002, Brest, France.

**2001** : Conference Tutorial: UML for Software Engineers, International Conference on Software Engineering (ICSE), 2001, Toronto; joint tutorial with Cris Kobryn (Telelogic).

**2001** : Conference Tutorial: Rigorous Development with the UML, ETAPS 2001, Italy; joint tutorial with Jean-Michel Bruel (University of Pau, France).

**1996** : Invited Tutorial: Formal Object-Oriented Modeling, Universidad EAFIT, Medellin, Colombia.

### **Invited Visits**

**2013** : Visiting Professor, University of the West Indies, Mona, Jamaica, July 2013.

**2012** : Visiting Professor, University of Nice, France, June-July 2012.

**2009, 2011** : Visiting Researcher, Sintef, Norway.

**2009** : Visiting Professor, University of Nice, France, June - July 2009.

**2007** : Visiting Professor, IRISA, Rennes, France, February 2007 - June 2007.

**2006** : Visiting Professor, Lancaster University, Lancaster, UK, August 20, 2006 - January 20, 2007.

**2003** : Visiting Professor, University of Pau, Pau, France, June 2-26, 2003.

**2001** : Visiting Professor, New University of Lisbon, Portugal, September 10-21, 2001.

### **Professional Meeting Activities**

- **Conference, Major Seminar Organization and Steering Committees**

**2013** Co-Organizing Chair, Dagstuhl Seminar on Meta-Modeling Model-Based Engineering Tools, April 2013.

**2013** Program Board member, IEEE/ACM Conference on Model-Driven Engineering Languages and Systems (MODELS) 2013.

**2012** Program Chair, IEEE/ACM Conference on Model-Driven Engineering Languages and Systems (MODELS), 2012.

**2012** Co-Organizing Chair, Dagstuhl Seminar on Open Models as a Foundation of Future Enterprise Systems, March 2012.

**2011** Co-Organizing Chair, Dagstuhl Seminar on Models@Run.Time, November 2011.

**2011** Program Chair, European Conference on Modeling Foundations and Applications (ECMFA), 2011.

**2005** : Registration and Finance Chair, MODELS 2005.

**2007** : Steering Committee Member, IEEE/ACM Conference on Model-Driven Engineering languages and Systems (MODELS) series.

**2002** : Conference Co-chair, OMG's Workshop on the UML.

**2001-2002** : Steering Committee Vice-Chair, IEEE/ACM UML conference series.

**2000-2001** : Steering Committee Chair, IEEE/ACM UML conference series.

**1999** : Conference Chair, 2nd IEEE International Conference on the Unified Modeling Language 1999.

**1995** : Conference Co-chair, 1st IEEE Workshop on Industrial-Strength Formal Specification Techniques (WIFT 1995).

- **Selected Workshop Organization Committees**

**2013-** : GEMOC Workshops: MODELS 2013, ECOOP 2013; MODELS Workshop on Model-Driven Organizations (AMINO)

**2010-** : MODELS Educators' Symposium Steering Committee

**2009** : MODELS Educators' Symposium:.

**2007-** : ICSE Workshops on Modeling in Software Engineering (2014, 2013, 2012, 2009, 2008 2007).

**2006-** : MODELS Workshops on models@run.time.

**2003, 2004, 2006** : MODELS 2003, 2006 Workshops on Critical System Development using models.

**2003** : UML Workshop on Aspect Oriented Modeling, San Francisco.

**2003** : UML Workshop on the OCL, San Francisco.

**2002** : OOIS Workshop on Model-Driven Development, Montpellier, France.

**2002** : UML 2002 Workshop on Software Model Engineering, Dresden, Germany.

- 2002** : ECOOP 2002 Workshop on Integration and Transformation of UML Models, Italy.
- 2001** : UML 2001 Workshop on Practical UML-based Rigorous Development Methods - Countering or Integrating the eXtremists, Toronto, Canada.
- 2001** : PMD '01: Precise Modelling and Deduction for Object-oriented Software Development International Workshop at IJCAR 2001, Sienna.
- 2000** : OOPSLA'2000 Workshop on Refactoring the UML, Minneapolis.
- 2000** : ECOOP 2000 Workshop on Defining Precise Semantics for the UML, Nice, France.
- 1999** : OOPSLA'99 Workshop on Rigorous Modeling and Analysis with the UML, Denver.
- 1999** : ECOOP 1999 Workshop on Precise Semantics for the UML.
- 1998** : ICSE'98 Workshop on Precise Semantics for Software Modeling Techniques.

• **Selected Conference Program Committees:**

1. IEEE/ACM International Conference on Software Engineering (ICSE) 2012, 2013, 2014
2. International Conference on Requirements Engineering (RE) 2014
3. IEEE International Conference on Software Testing (ICST) 2010, 2011
4. OOPSLA 2009
5. IEEE/ACM MODELS 2008, 2009, 2010, 2011
6. Model-based Methodologies for Pervasive and Embedded Software (MOMPES) 2006-2009
7. International Conf. on Model Transformations (ICMT) 2007, 2008, 2009, 2010, 2011, 2013
8. Formal Methods for Open Object-based Distributed Systems (FMOODS) 1999, 2006, 2007, 2012
9. International Conference on Engineering Complex Computer Systems (ICECCS) 2002, 2004, 2005, 2007-2009
10. AOSD 2006, 2009, 2013
11. UML 2000-2004
12. Formal Methods in Software Practice (FMSP'2000)
13. TOOLS Pacific 2000
14. Workshop on Software Engineering and Petri Nets 2000 (Conference on Application and Theory of Petri Nets)
15. The International B/Z 2000 Conference
16. 3rd Workshop on Rigorous Object-Oriented Modelling (2000)
17. Workshop on Industrial-Strength Formal Specification Techniques (WIFT'98)
18. The Methods Integration Workshop 1996
19. Feature Interactions Workshops 1994, 1995

**Journal Editorial Activities**

**2001-:** Editor-in-chief, Journal of Software and System Modeling (SoSyM), Springer (<http://www.sosym.org>).

**2006-2012:** Software Area Co-Editor, IEEE Computer.

**2006-:** Associate Editor, Journal of Software Testing, Verification and Reliability (JSTVR).

### **Curriculum, Accreditation and other External Educational Activities**

**2011-2013 :** Chair of Curricula Committee, IEEE Computer Society Educational Activities Board (EAB).

**2010-2013 :** Member of CS2013 Committee (IEEE/ACM 2013 Computer Science Curriculum Recommendation Committee).

**2009-2013 :** Member of IEEE Computer Society Educational Activities Board Curricula Committee.

**2009** Chair of the Assessment Team that evaluated the University of the West Indies Mona Campus Computing Programs.

**1997-:** ABET/CSAC Computer Science Program Evaluator. Member of undergraduate Computer Science program evaluation teams.

**2003:** Computer Science Masters and Computer Science undergraduate program evaluator for Southern University, Louisiana.

**2000-2002:** Computer Science undergraduate program external evaluator for the University of Technology, Jamaica.

### **Other Service Activities**

**2011-2015:** Visiting (Adjunct) Professor, University of the West Indies, Mona Jamaica.

**1999-2007:** University member of the *Object Management Group* (OMG) and member of the UML 1.4 Revision Task Force. The OMG is a non-profit consortium of industries that defines and maintains standards pertaining to object-oriented modeling. The UML is an OMG standard language for object-oriented modeling.

### **Membership in Professional Societies**

Member of the Computer Society of the Institute of Electrical and Electronics Engineers, Inc. and the Association of Computing Machinery.

### **Student Research Supervision**

**Current number of active PhD students (committee chair) :** 5 (Phillipa Bennett, Wuliang Sun, Mustafa Al Lail, Mohammed Al Refai, Aleksandar Jacksic)

**Current number of active Masters students (committee chair) :** 0

**Number of PhD students graduated (committees chaired) :** 7

- Lijun Yu: Industry
- Emanuel Grant: University of North Dakota
- Dae-Kyoo Kim: Oakland University

- Raghu Reddy: IIIT Hyderabad, India
- Devon Simmonds: University of North Carolina, Wilmington
- Eunjee Song: Baylor University
- Trung Dinh Trong: Avaya Labs

**Number of Masters students graduated (committees chaired) :** over 12

**Number of Undergraduate students supervised on research projects :** over 7

**External PhD Committees :**

1. Hakan Burden, Chalmers University of Technology, Sweden, 2014.
2. Cedric Jeanneret, University of Zurich, Switzerland, 2013
3. Sean Thorpe, University of Technology, Jamaica, 2013.
4. Marc Palyart, University of Toulouse, France, 2012.
5. Shaukat Ali, Simula Labs, Norway, 2012
6. Mathieu Acher, University of Nice, France, 2011
7. Tao Yue, Carleton University, Canada, 2010
8. Freddie Munoz, University of Rennes, France, 2010
9. Andrea Baruzzo, Universit di Udine, Italy, 2008
10. Richard Pyne, University of the West Indies, 2008
11. D'Arcy Walsh, Carleton University, Canada, 2007
12. Demissie Aredo, University of Oslo, Norway, 2005
13. Juan Pablo Zamora, Carleton University, Canada, 2004
14. Mohamed Kande, Swiss Federal Institute of Technology in Lausanne, Switzerland, 2003
15. Gunnar Overgaard, Royal Insititute of Technology, Sweden, 1999
16. Jean-Michel Bruel, Paul Sabatier University, France, 1998