

PUBLICATIONS

- [1] X. Zhao, A. Cerone, and P. Krishnan. Verifying BPEL Workflows under Authorisation Constraints. In *Fourth International Conference on Business Process Management*. Springer Verlag, September 2006.
- [2] L. Wang and P. Krishnan. A Framework for Checking Behavioral Compatibility for Component Selection. In *Australian Software Engineering Conference (ASWEC)*, pages 49–58. IEEE, April 2006.
- [3] S. Bracher and P. Krishnan. Enabling Security Testing from Specification to Code. In *Fifth International Conference on Integrated Formal Methods (IFM)*, volume 3771 of *LNCS*, pages 150–166. Springer Verlag, November 2005.
- [4] P. Krishnan and A. Agrawal. Making the Common Criteria More Concrete. In *Asia Pacific Conference on Information Systems*, pages 267–270, Australia, Jan 2005.
- [5] P. Krishnan. Decomposing Controllers into Non-Conflicting Distributed Controllers. In *First International Colloquium on Theoretical Aspects of Computing*, LNCS 3407, pages 511–526, China, September 2005. Springer. Revised version of [7].
- [6] P. Krishnan and L. Wang. Supporting Partial Component Matching. In *First International Conference on Distributed Computing and Internet Technology (ICDCIT)*, number 3347 in *LNCS*, pages 294–303. Springer Verlag, December 2004.
- [7] P. Krishnan. Decomposing Controllers into Non-Conflicting Distributed Controllers. In *First International Colloquium on Theoretical Aspects of Computing*, China, September 2004. UNU/IIST.
- [8] P. Krishnan. Independent Examination of Software: An Experiment. *Information and Software Technology*, 46(12):847–856, September 2004.
- [9] P. Krishnan. Uniform Descriptions for Model Based Testing. In *Proceedings of the Australian Software Engineering Conference*, pages 96–105. IEEE, 2004.
- [10] P. Krishnan. Analysis of Initial Use Case Descriptions. In *IASTED International Conference on Software Engineering*, Austria, Feb 2004.
- [11] P. Krishnan and R. Bannerman. User Assisted Verification of Non-Repudiation and Similar Properties. In *International Conference on Security and Management (SAM'03)*, pages 161–167, June 2003.
- [12] P. Krishnan. Automatic Synthesis of a Subclass of Schedulers in Timed Systems. *Theoretical Computer Science*, 298(2):347–363, 2003.
- [13] P. Krishnan. Providing Assistance for Proofs in the Teaching of Theory of Computation. In *International Conference on Computers in Education*, pages 1083–1084. IEEE, Dec 2002.
- [14] P. Krishnan and D. Hartley. Using model checking to test a firewall : A case study. In *Proceedings of the Euromicro Conference: Software Process and Product Improvement*, pages 284–293, Dortmund, Germany, 2002. IEEE.

- [15] P. Krishnan. A Framework for Security and Control. In *International Conference on Parallel and Distributed Processing Techniques and Applications*, pages 584–590, June 2002.
- [16] P. Krishnan. A Tool Based Approach to Checking Logical Consistency in Accident Reports. *Reliability Engineering and Systems Safety*, 76(3):217–226, 2002.
- [17] P. Krishnan (Guest Editor). *New Zealand Journal of Computing*, 8(3), July 2001.
- [18] A. Renaud and P. Krishnan. Automatic Verification of Agreement and Secrecy. *New Zealand Journal of Computing*, 8(3):59–68, July 2001.
- [19] A. Renaud and P. Krishnan. An Environment for Specifying and Verifying Security Properties. In *Proceedings of the Australian Software Engineering Conference*, pages 203–212. IEEE, August 2001.
- [20] P. Krishnan, editor. *New Zealand Computer Science Research Students Conference*, number TR-COSC 02/01, University of Canterbury, April 2001.
- [21] P. Krishnan. Prototyping Electronic Commerce Systems Using Esterel. *Journal of Organizational Computing and Electronic Commerce*, 11(4):215–228, 2001. <http://erlbaum.com/Journals/journals/JOCE/joce.htm>.
- [22] P. Krishnan. Decomposing Timed Push Down Automata. *Fundamenta Informaticae*, 45(3):215–229, 2001.
- [23] P. Krishnan. Consistency Checks for UML. In *7th Asia Pacific Software Engineering Conference*, pages 162–169, Singapore, Dec 2000.
- [24] P. Krishnan. A Rigorous Approach to Checking Consistency in Accident Reports. In *IASTED International Conference on Software Engineering and Applications*, pages 16–21, Las Vegas, Nov 2000.
- [25] P. Krishnan and A. Renaud. Protocol Specification and Verification of Security Properties: A General Approach. In *Proceedings of the Sixth New Zealand Formal Program Development Colloquium*, pages 11–19, Aug 2000.
- [26] P. Krishnan, editor. *New Zealand Formal Program Development Colloquium*, number TR-COSC 01/00, University of Canterbury, 2000.
- [27] P. Krishnan. Specification, Verification and Synthesis: An Example. In *The Australasian Workshop on Computational Logic*, pages 67–76, Canberra, Australia, Jan 2000.
- [28] P. Krishnan. Automatic Synthesis of Schedulers in Timed Systems. In *Computing: The Australasian Theory Symposium (CATS)*, volume 31 of *ENTCS*, Canberra, Australia, Jan 2000. Elsevier. Electronically available from <http://www.elsevier.nl>.
- [29] P. Krishnan. Issues Related to Distributed Processing of Picture Languages. *Journal of Universal Computer Science*, 5(9):542–551, 1999. Electronically available: <http://www.iicm.edu/jucs>.
- [30] K. Mason and P. Krishnan. Decomposition of Timed Automata. *Journal of Universal Computer Science*, 5(9):574–587, 1999. Electronically available: <http://www.iicm.edu/jucs>.

- [31] P. Krishnan. Distributed Timed Automata. In *Workshop on Distributed Systems*, volume 28 of *ENTCS*, pages 41–57, Iasi, Romania, Sept 1999. Elsevier. Electronically available from <http://www.elsevier.nl>.
- [32] P. Krishnan. Issues Related to Distributed Processing of Picture Languages. In A. Mateescu, editor, *Workshop on Formal Languages and Automata*, Iasi, Romania, Sept 1999.
- [33] K. Mason and P. Krishnan. Decomposition of Timed Automata. In A. Mateescu, editor, *Workshop on Formal Languages and Automata*, Iasi, Romania, Sept 1999.
- [34] P. Krishnan. Timed Automata and Embedded Systems. In *New Zealand Embedded Systems Conference*, July 1999.
- [35] P. Krishnan. Model Checking and Its Relevance. *New Zealand Journal of Computing*, 7(1):12–25, April 1999.
- [36] P. Krishnan. Trajectories in Timed Systems. In *Proceedings of the Fifth New Zealand Formal Program Development Colloquium*, pages 57–65, Jan 1999.
- [37] P. Krishnan. Independence in Architectural Descriptions. In *SE:E&P Software Engineering: Education and Practice*, pages 68–75. IEEE, Jan 1998.
- [38] P. Krishnan. An Asynchronous Calculus based on the Absence of Actions. *Journal of Universal Computer Science*, 3(12):141–154, Dec 1997. Electronically available: <http://www.iicm.edu/jucs>.
- [39] P. Krishnan. A Process Algebraic Approach to Time Granularity. *International Journal of Foundations of Computer Science*, 8(4):363–378, Dec 1997.
- [40] P. Krishnan and B. McKenzie. Functional CCS. In A. Davie C. Clack and K. Hammond, editors, *9th International Workshop on Implementation of Functional Languages*, pages 371–386, St. Andrews, Scotland, Aug 1997.
- [41] P. Krishnan and J. Hopkins. A Process Algebraic Approach to Linear Logic. In *Proceedings of the Discrete Mathematics and Theoretical Computer Science Conference*, pages 308–320. Springer-Verlag, Dec 1996.
- [42] P. Krishnan. Architectural CCS. *Formal Aspects of Computing: The International Journal of Formal Methods*, 8(2):162–187, 1996.
- [43] P. Krishnan. A Calculus Based on Absence of Actions. In *Intensional Programming -I*, pages 234–248. World Scientific, 1996.
- [44] P. Krishnan. Characterising Various Types of Reuse Formally. In *Proceedings of the Second New Zealand Formal Program Development Colloquium*, pages 79–88. Massey University, Feb 1996.
- [45] P. Krishnan. Hybrid Event Structures. In *Proceedings of the Computing: The Australasian Theory Symposium (CATS 96)*, pages 38–47, Melbourne, Australia, Jan 1996.
- [46] P. Krishnan. Deriving Distributed Processes From Concurrent Processes. *Information and Software Technology*, 37(10):557–562, 1995.

- [47] P. Krishnan. A Calculus Based on Absence of Actions. In *Proceedings of the Eighth International Symposium on Languages for Intensional Programming*, pages 149–160, Sydney, Australia, May 1995. Report No 95-174C Macquarie Computing Reports.
- [48] P. Krishnan. Pragmatics of the Action Semantics Approach: Fault Tolerance as an Example. In *Proceedings of the New Zealand Formal Program Development Colloquium*, pages 43–52. University of Waikato, nov/dec 1994.
- [49] P. Krishnan. Formal Specifications and Design Extraction: A Pilot Study. *Information and Software Technology*, 36(11):675–681, 1994.
- [50] P. Krishnan. A Semantic Characterisation for Faults in Replicated Systems. *Theoretical Computer Science*, 128((1-2)):159–177, 1994.
- [51] P. Krishnan. Specification of Schedulers Using the Modal- μ Calculus. *Australian Computer Journal*, 26(2), May 1994.
- [52] P. Krishnan. A Case Study in Specifying and Testing Architectural Features. *Microprocessors and Microsystems*, 18(3):123–130, April 1994.
- [53] P. Krishnan, B. McKenzie, and S. Hunt. **GUILE:Graphical User Interface for Linguistic Experiments**. In *Proceedings of the 17th Annual Computer Science Conference*, number 1 in Australian Communications 16, pages 309–320, Christchurch, New Zealand, January 1994.
- [54] P. Krishnan. Specification of Systems with Interrupts. *Journal of Systems and Software: Special Issue on Applying Specification, Verification and Validation Techniques to Industrial Software Systems*, 21(3):291–304, June 1993.
- [55] P. Krishnan. Pre-Orders for Fault-Tolerance. In *Proceedings of the 16th Australian Computer Science Conference*, pages 693–701, Brisbane, January 1993.
- [56] P. Krishnan. A Calculus of Timed Communicating Systems. *International Journal of Foundations of Computer Science*, 3(3):303–322, September 1992.
- [57] P. Krishnan. A Semantics for Multiprocessor Systems. In B. Krieg-Brückner, editor, *European Symposium On Programming (ESOP)*, volume LNCS 582, pages 307–320, Rennes, France, February 1992. Springer-Verlag.
- [58] P. Krishnan and B. J. McKenzie. A Process Algebraic Approach to Fault-Tolerance. In *Proceedings of the 15th Australian Computer Science Conference*, pages 473–485, Hobart, January 1992.
- [59] P. Krishnan and P. D. Mosses. Specifying Asynchronous Transfer of Control. In J. Vytopil, editor, *Proceedings of the Symposium on Formal Techniques in Real-Time and Fault-Tolerant Systems*, volume LNCS 571, pages 291–306, Nijmegen, Netherlands, January 1992. Springer Verlag.
- [60] P. Krishnan. A Model for Real-Time Systems. In *16th International Symposium on Mathematical Foundations of Computer Science (MFCS)*, volume LNCS 520, pages 298–307. Springer-Verlag, September 1991.

- [61] P. Krishnan. Distributed CCS. In *Theories of Concurrency: Unification and Extension: CONCUR-91*, volume 527 in LNCS, pages 393–407. Springer-Verlag, August 1991.
- [62] P. Krishnan. Real-time Action. In *Euromicro Workshop on Real-Time Systems*, pages 174–182, Paris, France, June 1991. IEEE.
- [63] R. A. Volz, P. Krishnan, and R. J. Theriault. Distributed Ada – A case study. *Information and Software Technology*, 33(4):292–300, May 1991.
- [64] P. Krishnan and R. A. Volz. A distributed real-time language and its operational semantics. In *The 10th IEEE Real-Time Systems Symposium*, pages 41–50, 1989.
- [65] R. A. Volz, P. Krishnan, and R. J. Theriault. Distributed Ada – A case study. In J. Bishop, editor, *Distributed Ada Symposium*, Southampton, 1989. Cambridge University Press.
- [66] R. A. Volz, T. N. Mudge, G. D. Buzzard, and P. Krishnan. Translation and execution of distributed Ada programs: Is it Ada? *IEEE Transactions on Software Engineering*, pages 281–292, March 1989.
- [67] P. Krishnan, R. A. Volz, and R. J. Theriault. Implementation of task types in distributed Ada. *2nd Int’l Workshop on Real Time Ada Issues*, pages 104–107, June 1988.
- [68] R. A. Volz, P. Krishnan, and R. J. Theriault. An approach to distributed execution of Ada programs. In *NASA/JPL Workshop on TeleRobotics*, January 1987.
- [69] R. A. Volz, T. N. Mudge, G. D. Buzzard, and P. Krishnan. Translation and execution of distributed Ada programs: Is it Ada? In *SPIE*, volume 727, pages 114–125, Oct 1986.