

REFERENCES

1. Ajinkya Y., Bhave, David Garlan, Bruce Krogh, Akshay Rajhans and Bradley Schmerl (2010). “Augmenting Software Architectures with Physical Components”, In Proceedings of the Embedded Real Time Software and Systems Conference, pp. 19–21.
2. Alawneh, L., Debbabi, M., Hassaine, F., Jarraya, Y., & Soceanu, A. (2006). “A Unified Approach for Verification and Validation of Systems and Software Engineering Models”, In Proceedings of the 13th Annual IEEE International Symposium and Workshop on Engineering of Computer Based Systems (ECBS’06), pp. 10–15.
3. Albert, E., Arenas, P., Genaim, S., Puebla, G., and Zanardini, D. (2007). “Experiments in Cost Analysis of Java Bytecode”, Electronic Notes in Theoretical Computer Science, Vol. 190, No. 1, pp. 67–83.
4. Alberto, A., Daniel, P., and Yuanfang, C. (2008). “Coordination Implications of Software Architecture in a Global Software Development Project Proceedings, pp. 107–116.
5. Aldini, A., Bernardo, M., and Corradini, F., (2010). “A Process Algebraic Approach to Software Architecture Design”, Springer, ISBN: 978-1-84800-222-7.
6. Aldrich, J. (2008). “Using Types to Enforce Architectural Structure”, Proceedings of Working IEEE/International Federation for Information Processing (IFIP) Conference Software Architecture, pp. 211–220.
7. Aleti, A., Bjornander, S., Grunske, L., & Meedeniya, I. (2009). “Arche Opterix: An Extendable Tool for Architecture Optimization of AADL Models”, In MOMPES, pp. 61–71.
8. Alexander, K., Stephan., M and Christopher, R. (2001). “Model Checking UML State Machines and Collaborations”, Electronic Notes in Theoretical Computer Science, pp. 395–416.
9. Alfonso, P., Michele, T., Romina, E., and Vittorio, C. (2012). “Performance Driven Architectural Refactoring through Bidirectional Model Transformation”, ACM SIGSOFT Conference on Quality of Software Architectures, pp. 65–60.
10. America, P., Hofmeister, C., Kruchten, P., Nord, R.L., Obbink, H., and Ran, A. (2007). “A General Model of Software Architecture Design Derived from Five Industrial Approaches”, Journal of Systems and Software, Vol. 80, No. 1, pp. 106–126.
11. Anders Borjesson, Kim Guldstrand Larsen and Arne Skou (1992). “Generality in design and compositional verification using TAV”, FORTE 1992, pp. 449–464.

12. Andreas Gerstlauer, Daniel D., Gajski, Gunar Schirner and Samar Abdi (2009). "Embedded System Design: Modeling Synthesis and Verification", ISBN-10: 1441905030.
13. Andreas Johnsen and Kristina Lundqvist (2011). "Developing Dependable Software Intensive Systems: AADL vs. EAST-ADL", In A. Romanovsky and T. Vardanega, editors, Ada, Europe 2011, Springer, pp. 103–117.
14. Andreas Johnsen, Kristina Lundqvist, Omar Jaradat and Paul Pettersson (2012). "Automated Verification of AADL-Specifications Using UPPAAL", In Proceedings of the 14th IEEE International Symposium on High Assurance Systems Engineering (HASE), pp. 132–138.
15. Anne Martens, Heiko Koziolek, Steffen Becker and Ralf Reussner (2010). "Automatically Improve Software Architecture Models for Performance, Reliability, and Cost Using Evolutionary Algorithms", Proceedings of the first joint WOSP/SIPEW international conference on Performance engineering, pp. 105–116.
16. Anton Cervin, Dan Henriksson and Martin Ohlin (2008). "True Time 1.5 – Reference Manual", Department of Automatic Control, Lund University, Sweden, <http://www.control.lth.se/trutime>.
17. Anuja Apte (2008). "Modeling System Architecture and Resource Constraints Using Discrete Event Simulation", Matlab Digest, <http://www.mathworks.com>.
18. Arief, L.B., and Speirs, N.A. (2000). "A UML tool for an Automatic Generation of Simulation Programs", In Proceedings of WOSP, pp. 71–76.
19. Ash, D.A., Hagemeister, J., and Oman, P.W. (1991). "A Definition and Taxonomy for Software Maintainability", Software Engineering Test Lab Technical Report #91 – 08 TR, University of Idaho, Moscow.
20. Avgeriou, P., Bosch, J., and Jansen, A.G.J. (2008). "Documenting after the Fact: Recovering Architectural Design Decisions", Journal of Systems and Software, Vol. 81, No. 4, pp. 536–557.
21. Avgeriou, P., Hammer, D.K., Jansen, A.G.J., and van der Ven J. (2007). "Tool Support for Architectural Decisions", In Proceedings of the 6th IEEE/IFIP Working Conference on Software Architecture, pp. 4–8.
22. Averill, M.L., and David Kelton W. (2000). "Simulation Modeling and Analysis". McGraw-Hill, 3rd edition, ISBN-13: 978-0070366985.
23. Avgeriou, P., Harrison, N.B., and Zdun, U. (2007). "Architecture Patterns as Mechanisms for Capturing Architectural Decisions", *IEEE Software*, 24(4), pp. 38–45.
24. Avizienis, A., Laprie, J. C., Randell, B., and Landwehr, C. (2004). "Basic Concepts and Taxonomy of Dependable and Secure Computing", *IEEE Transactions, Dependable Secured Computing*, Vol. 1, No. 1, pp. 11–33.
25. Babar, M.A., De Boer, R.C., Dingsoir, T., and Farenhorst, R. (2007). "Architectural Knowledge Management Strategies: Approaches in Research and Industry", In Proceedings of the 2nd Workshop on Sharing and Reusing architectural Knowledge – Architecture, rationale, and Design Intent, pp. 2–8.

26. Bahsoon R. (2007). "Defining Dependable Dynamic Data-Driven Software Architectures", In IEEE International Conference on Information Reuse and Integration, (IRI), pp. 691–694.
27. Balsamo, S., Di Marco, A., Inverardi, P., and Simeoni, M. (2004). "Model-Based Performance Prediction in Software Development: A Survey", IEEE Transactions on Software Engineering, Vol. 30, No. 5, pp. 295–310,
28. Balsamo, S., Bernardo, M., & Simeoni, M. (2003). "Performance Evaluation at the Software Architecture Level", In "Formal Methods for Software Architectures", Springer, LNCS 2804, pp. 207–258.,
29. Balsamo, S., Di Marco, A., Inverardi, P., and Marzolla, M. (2004). "Experimenting different Software Architectures Performance Techniques: A Case Study", Proceeding ACM WOSP 2004, International Work on Software and Performance, San Francisco, CA, USA, pp. 115–119.
30. Balsamo, S., Di Marco, A., Inverardi, P., and Simeoni, M. (2004). "Model-Based Performance Prediction In Software Development: A Survey", IEEE Transactions Software Engineering, Vol. 30, No. 5, pp. 295–310.
31. Barbara Kitchenham, Shari Lawrence Pfleeger and Norman Fenton (1995). "Towards a Framework for Software Measurement Validation", IEEE Transactions on Software Engineering, Vol. 21 No. 12, pp. 929–944.
32. Becker, S., Koziolek, H., and Reussner, R. (2009). "The Palladio Component Model for Model-Driven Performance Prediction". Journal of Systems and Software, Vol. 82, No. 1, pp. 3–22.
33. Bernardi, S., Donatelli, S., and Merseguer, J.A. (2002). "From UML Sequence Diagrams and Statecharts to Analysable Petri Net Models", Proceedings of the Third International Workshop on Software and Performance, ACM, pp. 35–45.
34. Bernardi, S., Campos, J., Donatelli S., and Merseguer, J. (2002). "A Compositional Semantics for UML State Machines Aimed at Performance Evaluation", Proceedings of the 6th International Workshop on Discrete Event Systems, IEEE Computer Society Press, pp. 295–302.
35. Bertolino, A., and Mirandola, R. (2004). "CB-SPE Tool: Putting Component-Based Performance Engineering into Practice", Seventh International Symposium on Component-Based Software Engineering, pp. 233–248.
36. Blom, H., Chen, D., Johansson, R., Lonn, H., Papadopoulos, Y., Sandberg, A., Torchiaro, S., Tagliabo, F., and Walker, M. (2011). "Integrated Safety and Architecture Modeling for Automotive Embedded Systems", Elektro technik und Informations technik, Vol. 128, pp. 196–202.
37. Bondarev, E., Chaudron, M.R.V., and De Kock, E. (2007). "An Exploring Performance Trade-Offs of a JPEG Decoder Using the Deepcompass Framework", In WOSP 2007, pp. 153–163.
38. Boroday, S., Petrenko, A., Singh, J., and Hallal, H. (2005). "Dynamic Analysis of Java Applications For Multithreaded Antipatterns", In Workshop on Dynamic Analysis (WODA), pp. 1–7.

39. Bozga, M., Graf, S., and Mounier, L., (2002). “IF-2.0: A Validation Environment for Component-Based Real-Time Systems”, In Proceedings of Conference on Computer Aided Verification, Copenhagen, LNCS. Springer, pp. 343–348.
40. Casale, G., and Serazzi, G. (2011). “Quantitative System Evaluation With Java Modeling Tools”, In ICPE’11—Second Joint WOSP/SIPEW International Conference on Performance Engineering, pp. 449–454.