

# Software evaluation and quality assurance

Software evaluation models are the most active area of application of LSP system evaluation models. Our goal is to develop a general framework for software evaluation based on ISO and IEEE standards. In particular, we developed models for IDE's, windowed environments, browsers, web sites, etc. Another active area of our research is the evaluation and comparison of compilers (specifically C and C++). We also studied the rapid evolutionary prototyping and related software QA issues in a joint project with a team from the University of San Luis in Argentina.

## Publications:

1. Dujmović, J.J. and Hajime Nagashima, Evaluation of IDE's for Java Enterprise Applications. Proceeding of the Seventh IASTED International Conference Software Engineering and Applications (Editor: M.M. Hamza) pp. 703-708, ACTA Press, 2003.
2. Dujmović, J.J. and M. Kadaster, A Technique and Tool for Software Evaluation. Proceedings of the Sixth IASTED International Conference Software Engineering and Applications (Editor: M.M. Hamza) pp. 743-748, ACTA Press, 2002.
3. Funes, A., A. Dasso, J.J. Dujmović, G. Montejano, D. Riesco, R. Uzal, Web Browsers Performance Analysis Using LSP Method. Proceedings of the International Conference on Software Engineering Applied to Networking and Parallel/Distributed Computing. Reims, France, 2000.
4. Lew, H. and J.J. Dujmović, Performance Evaluation and Comparison of C++ Compilers. The 26th International Conference for the Resource Management and Performance Evaluation of Enterprise Computing Systems. CMG 2000 Proceedings, Vol. 1, pp. 241-252, 2000.
5. Dujmović, J.J., E. Horvath, H. Lew, Benchmark Program Generator for Compiler Performance Analysis. The 25th International Conference for the Resource Management and Performance Evaluation of Enterprise Computing Systems. CMG 99 Proceedings, Vol. 2, pp. 838-847, 1999.
6. Dujmović, J.J., E. Petrolo, R. Uzal, A. Dasso, A. Funes, D. Riesco, G. Montejano, and A. Echeverria, Software Quality Assurance in a Project Based on Rapid Evolutionary Prototyping Methodology. Proceedings of the 17th Annual International Conference of the Association of Management and the International Association of Management. San Diego, 1999.
7. Dujmović, J.J., Quantitative Evaluation of Software. Proceedings of the IASTED International Conference on Software Engineering, edited by M.H. Hamza, pp. 3-7. IASTED/Acta Press, 1997.
8. Dujmović, J.J. and A.R. Bayucan, Evaluation and Comparison of Windowed Environments Proceedings of the IASTED International Conference on Software Engineering, edited by M.H. Hamza, pp. 102-105. IASTED/Acta Press, 1997.