

PhD Thesis

G. Scanniello "Methods and Tools for E-Learning Processes", Tesi di dottorato in Informatica III° ciclo nuova serie dell'Università degli Studi di Salerno. Supervisors: Prof. Gennaro Costagliola e Prof. Andrea De Lucia.

International Journal (with review)

- [R1] Risi, G. Scanniello, G. Tortora "Using Fold-in and Fold-out in the Architecture Recovery of Software Systems" In Formal Aspects of Computing, Springer Press, DOI: 10.1007/s00165-011-0199-y, available at <http://www.springerlink.com/content/g188634558147038/fulltext.pdf>.
- [R2] A. De Lucia, F. Fasano, G. Scanniello, G. Tortora "Improving Artefact Quality Management in ADAMS with Distributed Inspection" In IET Software (previously published as IEE Proceedings Software), to appear.
- [R3] G. Scanniello, A. D'Amico, C. D'Amico, T. D'Amico "Architectural Layer Recovery for Software System Understanding and Evolution" In Software: Practice and Experience, Vol. 40, No. 10, September 2010, <http://dx.doi.org/10.1002/spe.988>, pp. 897-916.
- [R4] U. Erra, G. Scanniello "Assessing Communication Media Richness in Requirements Negotiation" In IET Software (previously published as IEE Proceedings Software), 2010, DOI:10.1049/iet-sen.2009.0052, Vol. 4, No. 2, pp. 134-148.
- [R5] M. Giordano, G. Polese, G. Scanniello, G. Tortora "A System For Visual Role-Based Policy Modelling" In International Journal of Visual Languages & Computing, Vol. 20, No. 1, February 2010, Elsevier, DOI:10.1016/j.jvlc.2009.11.002, pp. 41-64.
- [R6] G. Scanniello, D. Distanto, M. Risi "An Approach and an Eclipse Based Environment for Enhancing the Navigation Structure of Web Sites" In International Journal on Software Tools for Technology Transfer, Springer Press, Vol.11, No.6, December, 2009, DOI: 1007/s10009-009-0125-2, pp. 419-515.
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- [R8] A. De Lucia, F. Fasano, G. Scanniello, G. Tortora "Evaluating Distributed Inspection through Controlled Experiments" In IET Software (previously published as IEE Proceedings Software), Vol. 3; No 5, October, 2009, DOI: 10.1049/iet-sen.2008.0101, pp. 381-394.
- [R9] M. Colosimo, A. De Lucia, G. Scanniello, G. Tortora "Evaluating Legacy System Migration Technologies through Empirical Studies" In International Journal on Information and Software Technology, Elsevier, Vol. 51, No. 2, February 2009, DOI: 10.1016/j.infsof.2008.05.012, (available at <http://dx.doi.org/10.1016/j.infsof.2008.05.012>), pp. 433-447.
- [R10] G. Costagliola, A. De Lucia, F. Ferrucci, C. Gravino, G. Scanniello "Assessing the Usability of a Visual Tool for the definition of E-learning Processes" In International Journal of Visual Languages & Computing, Vol. 19, No. 9, 2008, Elsevier, DOI: 10.1016/j.jvlc.2008.01.003, (available at <http://dx.doi.org/10.1016/j.jvlc.2008.01.003>), pp.: 721-737.
- [R11] A. De Lucia, R. Francese, G. Scanniello, G. Tortora "Developing Legacy System Migration Methods and Tools for Technology Transfer" In Software: Practice and Experience, Vol. 38, No.13, November 2008, John Wiley & Sons, Ltd, DOI: 10.1002/spe.870, pp.: 1333-1364.
- [R12] A. De Lucia, G. Scanniello, G. Tortora "Identifying Similar Pages in Web Applications using a Competitive Clustering Algorithm" In International Journal on Software Maintenance and Evolution, Vol. 19, No. 5, September-October 2007, John Wiley & Sons, Ltd., DOI: 10.1002/smr.v19:5, pp.: 281-296.
- [R13] A. De Lucia, F. Fasano, G. Scanniello, G. Tortora "Enhancing Collaborative Synchronous UML Modelling with Fine-grained Versioning of Software Artefacts" In International Journal of Visual Languages & Computing, Vol. 18, No. 5, 2007, Elsevier, DOI: 10.1016/j.jvlc.2007.08.005, pp 492-503.
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- [R15] A. De Lucia, R. Francese, G. Scanniello, G. Tortora "Identifying Cloned Navigational Patterns in Web Applications". In International Journal of Web Engineering Vol. 5, No.2, June 1, 2006, Rinton Press, pp.:150-174.
- [R16] G. Costagliola, F. Ferrucci, G. Polese, G. Scanniello "A Visual Language Based System for Designing and Presenting E-learning Courses". In International Journal of Distance Education Technologies, Vol. 3; No.1; 2005, January-March, IDEA Group Publishing, pp.: 1-19.
- [R17] G. Costagliola, R. Francese, G. Scanniello "A Visual System Supporting Software Reuse in the Banking Legacy System Context". In International Journal of Software Engineering and Knowledge Engineering, Vol. 13, No. 1, February, 2003, World Scientific Press, DOI: 10.1142/S0218194003001202, pp.: 83-101.

International conferences and workshops (with review)

- [C1] G. Scanniello “Source Code Survival with Kaplan Meier Estimator” In Proceedings of 27th IEEE International Conference on Software Maintenance, Williamsburg, VA, USA, September 25-30, 2011, IEEE Computer Society Press, pp. 524-527.
- [C2] S. Romano, G. Scanniello, M. Risi, and C. Gravino “Clustering and Lexical Information Support for the Recovery of Design Pattern in Source Code” In Proceedings of 27th IEEE International Conference on Software Maintenance, Williamsburg, VA, USA, September 25-30, 2011, IEEE Computer Society Press, pp. 500-503.
- [C3] G. Scanniello, F. Fasano, A. De Lucia, and G. Tortora, “Software Quality Assessment and Error/Defect Identification in the Italian Industry Preliminary Results from a State of the Practice Survey”, In Proceedings 6th International Conference on Software Engineering Advances, October 23-29, 2011, Barcelona, Spain, (to appear).
- [C4] G. Scanniello and U. Erra “Assessing Think-Pair-Square in Distributed Modeling of Use Case Diagrams” In Proceedings of International Workshop on Empirical Requirements Engineering, Trento, Italy, August 30, 2011, IEEE CS Press.
- [C5] G. Reggio, F. Ricca, G. Scanniello, F. Di Cerbo, and G. Deodero “A Precise Style for Business Process Modeling: Results from Two Controlled Experiments” In 14th ACM/IEEE International Conference on Model Driven Engineering Languages and Systems, Wellington, New Zealand, October 16-21, 2011, LNCS Press, (to appear).
- [C6] G. Deodero, F. Di Cerbo, G. Reggio, F. Ricca, and G. Scanniello “Precise vs. Ultra-light Activity Diagrams - An Experimental Assessment in the Context of Business Process Modelling” In Proceedings of 12th International Conference on Product Focused Software Development and Process Improvement, Torre Canne, Italy June 20-22, 2011, LNCS Press, pp. 291-305.
- [C7] G. Scanniello and A. Marcus “Clustering Support for Static Concept Location in Source Code” In Proceedings of 19th IEEE International Conference on Program Comprehension, Kingston, Ontario, Canada, June 22-24, 2011, IEEE Computer Society Press.
- [C8] G. Scanniello, F. Ricca, and M. Torchiano “On the Effectiveness of the UML Object Diagrams: A Replicated experiment” In Proceedings of 15th International Conference on Evaluation and Assessment in Software Engineering, Durham, UK, June 11-12, 2011, the IET.
- [C9] A. Corazza, S. Di Martino, V. Maggio, G. Scanniello “Investigating the use of Lexical Information for Software System Clustering” In Proceedings of 14th IEEE Conference on Software Maintenance and Reengineering, Oldenburg, Germany, March 1-4, 2011, IEEE Computer Society Press, pp. 35-44.
- [C10] A. Corazza, S. Di Martino, V. Maggio, G. Scanniello “A Tree Kernel Based Approach for Clone Detection” In Proceedings of 26th IEEE International Conference on Software Maintenance, Timisoara, Romania, September 12-18, 2010, IEEE Computer Society Press.
- [C11] U. Erra, A. Portnova, G. Scanniello “Comparing two Communication Media in Use Case Modeling: Results from a Controlled Experiment” In Proceedings of 3rd International Conference on Empirical Software Engineering and Measurement, Bolzano-Bozen, Italy, September 16-17, 2010, ACM Press.
- [C12] F. Ricca, G. Scanniello, M. Torchiano, G. Reggio, E. Astesiano “On the Effort of Augmenting Use Cases with Screen Mockups: Results from a Preliminary Empirical Study” In Proceedings of 3rd International Conference on Empirical Software Engineering and Measurement, Bolzano-Bozen, Italy, September 16-17, 2010, ACM Press.
- [C13] G. Scanniello, C. Gravino, M. Risi, G. Tortora “A Controlled Experiment for Assessing the Contribution of Design Pattern Documentation on Software Maintenance” In Proceedings of 3rd International Conference on Empirical Software Engineering and Measurement, Bolzano-Bozen, Italy, September 16-17, 2010, ACM Press.
- [C14] D. Distanto, M. Risi, G. Scanniello “Extending Web Content Management Systems’ Navigation Capabilities with Semantic Navigation Maps” In Proceedings of 12th IEEE International Symposium on Web Systems Evolution, Timisoara, Romania, September 17-18, 2010, IEEE Computer Society Press, pp. 23-27.
- [C15] G. Scanniello, M. Risi, G. Tortora “Architecture Recovery using Latent Semantic Indexing and K-Means: an Empirical Evaluation” In proceedings of 8th IEEE International Conference on Software Engineering and Formal Methods, Pisa, Italy, September 13-18, 2010, IEEE CS Press, pp. 103-112.
- [C16] F. Ricca, G. Scanniello, M. Torchiano, G. Reggio, E. Astesiano “On the Effectiveness of Screen Mockups in Requirements Engineering: Results from an Internal Replication” In Proceedings of 3rd International Conference on Empirical Software Engineering and Measurement, Bolzano-Bozen, Italy, September 16-17, 2010, ACM Press, (to appear).
- [C17] G. Scanniello, A. D’Amico, C. D’Amico, T. D’Amico “A Clustering Approach Based on the Kleinberg Algorithm and Vector Space Model for Software Architecture Recovery” In Proceedings of 18th IEEE International Conference on Program Comprehension, Braga, Portugal, 30 June – 2 July, 2010, IEEE Computer Society Press, pp. 189-189.
- [C18] G. Scanniello, C. Gravino, G. Tortora “Investigating the Role of UML in The Software Modeling And Maintenance: a Preliminary Industrial Survey” In Proceedings of 12th International Conference on Enterprise Information Systems, June 8-12, 2010, Funchal, Madeira, Portugal, (to appear).

- [C19] A. Corazza, S. Di Martino, G. Scanniello "A Probabilistic based Approach towards Software System Clustering" In Proceedings of 14th IEEE Conference on Software Maintenance and Reengineering, Madrid, Spain, March 15-18, 2010. IEEE Computer Society Press, pp. 89-98.
- [C20] G. Scanniello, A. D'Amico, C. D'Amico, T. D'Amico "An Approach for Architectural Layer Recovery" In Proceedings of 25th Annual International Symposium on Applied Computing, Sierre, Switzerland, March 22-26, 2010, ACM Press, pp. 1853-1857.
- [C21] C. Gravino, G. Scanniello, G. Tortora "An Empirical Investigation on the Relation between Analysis Models and Source Code Comprehension" In Proceedings of 25th Annual International Symposium on Applied Computing, Sierre, Switzerland, March 22-26, 2010, ACM Press, pp. 2011-2012.
- [C22] S. Abrahão, C. Gravino, E. Insfran, G. Scanniello "On the Effectiveness of Dynamic Modeling in UML: Results from an External Replication" In Proceedings of 3rd International Conference on Empirical Software Engineering and Measurement, Lake Buena Vista, Florida, USA, October 15-16, 2009, IEEE Computer Society Press, pp. 468-472.
- [C23] A. De Lucia, M. Risi, G. Scanniello, G. Tortora "Towards Automatic Clustering of Similar Pages in Web Applications" In Proceedings of 11th IEEE International Symposium on Web Systems Evolution, Edmonton, Canada, September 25-27, 2009, IEEE Computer Society Press, pp. 99-108.
- [C24] U. Erra, G. Scanniello "Synchronous Communication Media in the Software Requirements Negotiation Process", In Proceeding of 6th International Conference on Cooperative Design, Visualization, and Engineering, Luxembourg City, Luxembourg, September 20-23, 2009, Springer Verlag LNCS Press, pp. 245-252.
- [C25] A. De Lucia, F. Fasano, G. Scanniello, G. Tortora "Concurrent Fine-grained Versioning of UML Models" In Proceedings of 13th IEEE Conference on Software Maintenance and Reengineering, Fraunhofer, Kaiserslautern, Germany, March 24-27, 2009. IEEE Computer Society Press, pp. 89-98.
- [C26] A. De Lucia, F. Fasano, M. Mennella, G. Scanniello, G. Tagliamonte, "DB-MELIS: An Eclipse Plug-in for Data Migration" In Proceedings of 13th IEEE Conference on Software Maintenance and Reengineering, Fraunhofer, Kaiserslautern, Germany, March 24-27, 2009. IEEE Computer Society Press, pp. 329-330.
- [C27] C. Gravino, G. Scanniello, G. Tortora "An Empirical Investigation on Dynamic Modeling in Requirements Engineering" In Proceedings of 11th ACM/IEEE International Conference on Model Driven Engineering Languages and Systems, Toulouse, France, September 28 - October 3, 2008, Springer Verlag LNCS Press, pp. 615-629.
- [C28] G. Scanniello, D. Distanti, M. Risi, "Using Semantic Clustering to Enhance the Navigation Structure of Web Sites" In Proceedings of 10th IEEE International Symposium on Web Site Evolution, Beijing, China, October 3-4, 2008, IEEE Computer Society Press, pp. 55-64.
- [C29] G. Scanniello, A. De Lucia, M. Mennella, G. Tagliamonte, "An Approach and an Eclipse Based Environment for Data Migration", In Proceedings of 24th IEEE International Conference on Software Maintenance, Beijing, China, September 28 - October 4, 2008, IEEE Computer Society Press, pp. 237-246.
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- [C32] A. De Lucia, M. Risi, L. Rizzi, G. Scanniello, "A Visual Framework for Reverse Engineering Processes" In Proceedings of 10th International Conference on Visual Information Systems (VISUAL 2008), Salerno, Italy, September 11-12, 2008, Springer Verlag LNCS Press, pp. 615-629.
- [C33] A. De Lucia, M. Risi, G. Scanniello, G. Tortora "Clustering Algorithms and Latent Semantic Indexing to Identify Similar Pages in Web Applications" In Proceedings of 9th IEEE International Symposium on Web Site Evolution, Paris, France, October 5-6, 2007, IEEE Computer Society Press, pp. 65-72.
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- [C35] A. De Lucia, C. Gravino, G. Scanniello, G. Tortora "Assessing and comparing Blended and Pure Learning Approaches: a Controlled Experiment", In Proceedings of the 13th International Conference on Distributed Multimedia Systems, San Francisco Bay, USA, September 6-8, 2007, Knowledge Systems Institute Press, pp. 3-8.
- [C36] R. Francese, I. Passero, G. Scanniello, G. Tortora "Improving student's Self-Efficacy using an Adaptive Approach", In Proceedings of the 13th International Conference on Distributed Multimedia Systems, San Francisco Bay, USA, September 6-8, 2007, Knowledge Systems Institute Press, pp. 170-175.
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- [C38] A. De Lucia, F. Fasano, G. Scanniello, G. Tortora, "Assessing the Effectiveness of a Distributed Method for Code Inspection: A Controlled Experiment" In Proceedings of 2nd IEEE International Conference on Global Software Engineering, Munich, Germany, August 27-30, 2007, IEEE Computer Society Press, pp. 252-261.
- [C39] A. De Lucia, M. Risi, G. Scanniello, G. Tortora "Comparing Clustering Algorithms for the Identification of Similar Pages in Web Applications" In Proceedings of 7th International Conference on Web Engineering, Como, Italy, July 16-20, 2007, Springer Verlag LNCS Press, pp. 415-420.
- [C40] M. Colosimo, A. De Lucia, R. Francese, G. Scanniello "MELIS: an Eclipse Based Environment for the Migration of Legacy Systems to the Web" In Proceedings of 13th Working Conference on Reverse Engineering, Benevento, Italy, October 23-27, 2006, IEEE Computer Society Press, pp.:293-294.
- [C41] A. De Lucia, R. Francese, G. Scanniello, G. Tortora, N. Vitiello "A Strategy and an Eclipse Based Environment for the Migration of Legacy Systems to Multi-tier Web-based Architectures" In Proceedings of 22nd IEEE International Conference on Software Maintenance, Philadelphia, Pennsylvania, September 24-27, 2006, IEEE Computer Society Press, pp. 438-447.
- [C42] A. De Lucia, G. Scanniello, G. Tortora "Using a Competitive Clustering Algorithm to Comprehend Web Applications" In Proceedings of 8th IEEE International Symposium on Web Site Evolution, Philadelphia, Pennsylvania, September 23-24, 2006, IEEE Computer Society Press, pp. 33-40.
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- [C45] A. De Lucia, M. Giordano, G. Polese, G. Scanniello, G. Tortora "Role Based Reengineering of Web Applications" In Proceedings of 7th IEEE International Symposium on Web Site Evolution, Budapest, Hungary, September 26, 2005, IEEE Computer Society Press, pp.: 103-110.
- [C46] G. Costagliola, A. De Lucia, F. Ferrucci, G. Scanniello "Visual Languages for Non Expert Instructional Designers: A Usability Study" In Proceedings of the 11th International Conference on Distributed Multimedia Systems, Banff, Canada, September 5-7, 2005, Knowledge Systems Institute Press, pp.: 46-51.
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- [C48] G. Costagliola, A. De Lucia, F. Ferrucci, G. Scanniello "Adaptive learning processes in Pure and Blended Teaching Approaches" In Proceedings of IADIS International Conference: e-Society 2005, Qawra, Malta, 27-30 June, 2005, IADIS Press, pp.:414 – 418.
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- [C51] R. Distasi, L. Paolino, G. Scanniello "Developing a System for the Retrieval of Melodies from Web Based Repositories". In Proceedings of 3rd International Workshop on Multimedia Databases and Image Communication (MDIC 04), Salerno, Italy, June 22, Vol. 17 of the World Scientific Series on Software Engineering and Knowledge Engineering, Word Scientific, pp. 31 – 40.
- [C52] G. Costagliola, F. Ferrucci, G. Polese, G. Scanniello "An Approach for the Creation of Collaborative Environments". In Proceedings of 2nd IEEE International Conference on Information Technology: Research and Education, London, United Kingdom, June 28 – July 1, 2004, IEEE Computer Society Press, pp.:184 – 188.
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- [C54] A. De Lucia, R. Francese, G. Scanniello, G. Tortora "Reengineering Web Applications Based on Cloned Pattern Analysis". In Proceedings of 12th IEEE International Workshop on Program Comprehension, Bari, June 24-26, 2004, Italy, IEEE Computer Society Press, pp.:132 – 141.
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- [C59] G. Costagliola, A. De Lucia, R. Francese, M. Risi, G. Scanniello “A Component-Based Visual Environment Development Process” In Proceeding of ACM for the 14th International Conference on Software Engineering and Knowledge Engineering, July 15-19, 2002, Sant’Angelo d’Ischia, Italy, ACM Press, pp.: 327-334.
- [C60] A. Bianchi, G. Costagliola, P. D’Ambrosio, R. Francese, G. Scanniello “A Visual System for the Generation of Banking Legacy Systems Gateway”. In Proceeding of IEEE on Human-Centric Computing Languages, September 5-7, 2001, Stresa, Italy, IEEE Computer Society Press, pp.: 350-357.

International chapter book (with review)

- [L1] F. Ferrucci, G. Scanniello, G. Tortora “E-Word: a platform for the management of adaptive e-learning processes” In Methods and Applications for Advancing Distance Education Technologies: International Issues and Solution included in the Strategic Application of Distance Learning Technologies Book Series (vol.3), ISBN: 978-1-60566-342-5, Chapter II, IDEA Group Publishing, 2009.
- [L2] G. Costagliola, F. Ferrucci, G. Polese, G. Scanniello “SEAMAN: a Visual Language Based Tool for E-learning Processes” In Strategic Application of Distance Learning Technologies included in the Advances in Distance Education Technologies Book Series (series vol.2), IDEA Group Publishing, 2008, pp.: 148-165.
- [L3] A. De Lucia, R. Francese, G. Scanniello “Distributed Workflow Management based on UML and Web Services” In Encyclopedia of E-Commerce, E-Government, and Mobile Technologies, Category: Concepts, Trends, and Challenges, Editor: Mehdi Khosrow, 2006, IDEA Group Publishing, ISBN 1-59140-799-0, pp.: 217-222.

Italian chapter book (with review)

- [LN1] De Lucia, R. Frances, G. Scanniello, G. Tortora “Experimental Evaluation of Legacy System Migration Technologies” In Proceedings of the METAMORPHOS Project Workshop, funded by MiUR (Ministero dell’Università e della Ricerca) under grant PRIN- 2006-2006098097, 2010, (to appear).
- [LN2] M. L. Bernardi, G. A. Di Lucca, F. Fasano, M. Di Penta, G. Scanniello “Reverse Engineering of Web Based Applications: A Survey on Methods and Techniques” In Proceedings of the METAMORPHOS Project Workshop, funded by MiUR (Ministero dell’Università e della Ricerca) under grant PRIN- 2006-2006098097, 2010, (to appear).

Italian conferences (with review)

- [CN1] G. Deodero, F. Di Cerbo, G. Reggio, F. Ricca, and G. Scanniello “Assessing the effectiveness of “Precise” Activity Diagrams in the Context of Business Process Modeling” 19th Italian Symposium on Advanced Database Systems, June 26-29, 2011, Maratea, pp. 371-378
- [CN2] M. Lapolla, M. Risi, G. Scanniello “An Empirical Evaluation of the Eclipse Framework” In atti ufficiali del 4th Italian Workshop on Eclipse Technologies Eclipse-IT 2009, Bergamo, Italy September 28-29, ISBN: 978-88-904388-0-6, 2009, pp. 65-76.
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