

## **Corrado Aaron Visaggio: Curriculum Vitae**

Born in Molfetta (Bari) January the 4<sup>th</sup> 1977.

### **Education**

July 2005: PhD in Information Technology Engineering received from the University of Sannio, Italy. Title of the thesis "Empirical Validation of Pair Programming".

2002: certificate of Professional Engineer.

December 2001: Laurea degree in Electronic Engineering received from the Politecnico di Bari. Title of the thesis: "Formalization of the Operative Context in Software Process Models" developed at the PQA Department, Chaired by dr. Jurgen Munch, at the Fraunhofer Institute on Empirical Software Engineering (IESE)Kaiserslautern, Germany.

### **Research Projects**

2007- Today: ART-DECO (founded by the Italian Government), concerning empirical validation of software development methodologies.

2005-2006: "Distretti Virtuali" (founded by the Italian Government), concerning the realization of a technological infrastructure for supporting virtual districts in the space technology field.

2005: "Analisi del potenziale dei Centri di Competenza in edilizia in Campania", convenzione "AFM Edilizia", aimed at accomplishing the gap analysis for the technologies for e-commerce and e-marketplace.

2005: "Sadas" (founded by the Italian Government), concerning the realization of systems for query optimization.

### **Positions**

December 2006- today: assistant professor at the University of Sannio, Italy.

October 2005- December 2006: research assistant at the Centre on Software Technology - University of Sannio, Italy.

### **Teaching Activities**

**AY 2007/2008**

Instructor of Databases at the Faculty of Computer Engineering at University of Sannio, Italy.

Co- Instructor of Software Testing at the Faculty of Computer Engineering at University of Sannio, Italy.

**AY 2006/2007**

Instructor of Databases at the Faculty of Computer Engineering at University of Sannio, Italy.

Co- Instructor of Software Testing at the Faculty of Computer Engineering at University of Sannio, Italy.

**AY 2005/2006**

Co- Instructor of Software Testing at the Faculty of Computer Engineering at University of Sannio, Italy.

**AY 2004/2005**

Co- Instructor of Software Testing at the Faculty of Computer Engineering at University of Sannio, Italy.

**AA 2003/2004**

Lecturer of Technologies for Software Production at the University of Sannio, Italy.

Lecturer of Management of Software Systems at the University of Sannio, Italy.

**Other teaching activities**

For Master in Information Technologies for managing Organizational Knowledge, at the University of Sannio, Italy : instructor of Object Oriented Programming Languages (ay 2006/2007).

For Master in Software Technologies, at the University of Sannio, Italy, he was co-instructor of:

- Software Testing, ay 2004/05;
- Object Oriented Programming Language I, ay 2004/05;
- Object Oriented Programming Language I, ay 2005/06;

For Master in Management of Software Technologies, at the University of Sannio, Italy, he was co-instructor of::

- Object Oriented Programming Language I, ay 2002/03;
- Object Oriented Programming Language I, ay 2003/04;
- Object Oriented Programming Language II, ay 2003/04.

## **Thesis Supervision e Co-supervision**

### **Ph.D.**

External referee for the doctoral thesis of dr. Ignacio Garcia Rodriguez de Guzman, entitled "PressWeb: un Proceso para la Reingenieria de Sistemas heredados hacia servicios web", at the Computer Science Faculty of the Universidad di Castilla-La-Mancha, Ciudad Real, Spain.

### **BSc**

2005/2006

Luana Mirabella, "Design and realization of a technology for the vulnerability analysis of a database and for adaptative management of data privacy policy"

Elisa Costante, "Design and realization of a technology for the top-down implementation of data privacy policy and their optimization"

Marco Castellano, "System supporting the management of processes in virtual districts"

Igino Pennino, "Design and realization of a technology for the bottom-up implementation of data privacy policy"

Fabio Melillo, "Realization of a data domain modeller for the definition of data privacy policies and related experimentation"

Michele Buffolino, "Tool for the evaluation of data degradation in the algorithms of anonymization of database"

Raffaele Mammolo, "Realization of a log analyzer for identification of multiusers and multisessions attacks"

### **MSc**

2005/2006

Stefania Fusco, "Management of requirement priorities through key words"

Tamara Ucci, "A System for continuous alignment of software requirement specification during project evolution"

Vincenzo di Puppo "Usage of ontologies for database navigation"

Davide Vetrone, "Analysis of ERP Open Source software and characterization of development process through empirical methods"

2004/2005

Giovanni Capozio, "System for the management and analysis of quality of software requirement specification"

## **Other experiences**

Since 2004 he collaborates with the research Group Alarcos, chaired by the professor Mario Piattini, at the University of Castilla-La-Mancha. The collaboration consisted on designing, running of joint experiments in software engineering and related data analysis.

In 2001 he spent a period at the Fraunhofer Institute on Empirical Software Engineering (IESE), Kaiserslautern, Germany.

## **Professional Activities**

He serves in the editorial board of the "E-Informatica journal".

He is in the program committee of CEE-SET'2008.

He is reviewer of The 3rd International Symposium on Knowledge Communication and Conferences: KCC 2008.

He was additional reviewer of the following international journals and conferences: Journal of Software Maintenance and Evolution, Information and Software Technology Journal, European Conference on Software Maintenance and Reengineering, International Symposium on Empirical Software Engineering.

## List of Publications

### Journals

- R1.E. Bellini, G. Canfora, F. Garcia, M. Piattini, C.A. Visaggio "*Pair designing as a practice for enforcing and diffusing design knowledge*", Journal of Software Maintenance and Evolution: Research and Practice, Vol 17, No 6 (2005), John Wiley & Sons, pp 401 - 423.
- R2.G. Canfora, A: Cimitile, G.A. di Lucca, C.A. Visaggio "*How distribution affects the success of pair programming*" International Journal of Software Engineering and Knowledge Engineering, Vol 16, No2 (2006), World Scientific Publishing Company, pp.293-313.
- R3.G. Canfora, F. Garcia, M. Piattini, F. Ruiz, C.A. Visaggio "*A family of experiments to validate metrics for software process models*", The Journal of Systems and Software, Vol. 77 Issue 2 (2005), Elsevier Science Inc., pp.113-129.
- R4.G. Canfora, F. Garcia, M. Piattini, F. Ruiz, C.A. Visaggio "*Applying a framework for the improvement of software process maturity*", Software Practice and Experience, Vol 36, Issue 3 (2006), John Wiley and Sons, pp. 283-204.
- R5.García, F., Ruiz, F., Piattini, M., Canfora, G., Visaggio, C. "FMESP: Framework for the modelling and evaluation of Software Processes", Journal of Systems Architecture Vol. 52, No. 11 (2006), Elsevier, pp.627-639.
- R6.D. Caivano and C.A. Visaggio, "*Process Diversity and how practitioners can manage it*", Upgrade, the European Journal for the Informatics Professional, Vol. V, No.5 (2004) CEPIS-Novatica, pp.59-66.
- R7.M. Genero, E. manso, C.A. Visaggio, G. Canfora, M. Piattini, Building measure-based prediction models for UML class diagram maintainability, Empirical Software Engineering – Vol. 12 No. 5, oct 2007, Springer Netherlands, pp. 517-549.
- R8.G. Canfora, A. Cimitile, F.Garcia, M. Piattini, C.A. Visaggio, "Evaluating Performances of Pair Designing in Industry", The Journal of Systems and Software, 80 (2007), Elsevier Science Inc., pg 1317-1327.
- R9.G. Canfora, E. Costante, I. Pennino, C.A. Visaggio, "A three-layered model to implement data privacy policies" Computer Standards & Interfaces, Elsevier, 2008 (printing)

### International Conferences

- C.1 • F. Ricca, M. Di Penta, M. Torchiano, P. Tonella, M. Ceccato, C. A. Visaggio Are Fit Tables Really Talking? A Series of Experiments to Understand whether Fit Tables are Useful during Evolution Tasks, Int'l conference on Software Engineering 2008.
- C.2 G. Canfora, C. A. Visaggio, "Tuning anonymity level for assuring high data quality: an empirical study". ESEM 2007: 91-98, 2007.
- C.3 G. Canfora, C.A: Visaggio, "A Three Layered Model To Implement Data Privacy Policies", The 5th International Workshop on Security in Information Systems (WOSIS 2007).
- C.4 "Evaluating advantages of test-driven development: a controlled experiment with professionals", proc. of the 5th ACM-IEEE International Symposium on Empirical Software Engineering, ACM, pp-364-371.
- C.5 • L. Aversano, G. Canfora, C.A. Visaggio, "WECAP: a Web Environment for Project Planning", proc. of the eighteenth International Conference on Software Engineering & Knowledge Engineering, Knowledge Systems Institute Graduate School, pp.591-594
- C.6 • G. Canfora, A. Cimitile, F. Garcia, M. Piattini, C.A. Visaggio, "Productivity of Test Driven Development: a Controlled Experiment with Professionals", proc. of the 7th International Conference on Product-Focused Software Process Improvement, Springer-Verlag, pp.383-388.
- C.7 • G. Canfora, A. Cimitile, F. Garcia, M. Piattini, C.A. Visaggio "Performances of pair designing on software evolution: a controlled experiment", proc. of the 10<sup>th</sup> European Conference on Software Maintenance and Evolution, 2006, IEEE pg..
- C.8 G. Canfora, A. Cimitile, and C.A: Visaggio, "*Empirical Study on the Productivity of the Pair Programming*" proc. of the 6<sup>th</sup> Int'l Conference XP 2005, June 2005, Sheffield, UK, pubblicato in: (Eds. H. Baumeister, M. Marchesi, and M. Holcombe) Extreme Programming and Agile Processes in Software Engineering, LNCS 3556 (2005), Springer- Verlag, pp.92-99.
- C.9 M. T. Baldassarre, D. Caivano, C.A: Visaggio, and G. Visaggio "*ProMisE: a Framework for Process Models Customisation to Operative Context*", proc. of the 2002 Int'l Symposium on Empirical Software Engineering (ISESE'02), October 2002, Nara, Giappone, IEEE CS Press, pp.103-110.
- C.10 M.T. Baldassarre, D. Caivano, C.A: Visaggio, G. Visaggio, "*A Decision Model supporting cooperative work as an Experience Package*", proc. of the 26<sup>th</sup> Annual Int'l Computer Software and Applications Conference (COMPSAC'02), August 2002, Oxford, Englan, UK, IEEE CS Press, pp.1098-1103.
- C.11 G. Canfora, A. Cimitile, and C.A: Visaggio, "*From Knowledge Management Concepts toward Software Engineering Practices*", proc. of the 4th Int'l Product Focused Software Process Improvement (PROFES'02), Rovaniemi, Finlandia, December 2002, pubblicato in: (Eds M. Oivvo, and S. Komi-Sirvio) Product Focused Software Process Improvement, LNCS 2559 (2002), Springer- Verlag, pp.407-422.
- C.12 M.T. Baldassarre, A. Bianchi, D. Caivano, and C.A: Visaggio, "*Full Reuse Maintenance Process for Reducing Software Degradation*", proc. of the 7th European Conference on Software Maintenance and Reengineering (CSMR'03), March 2003, Benevento, Italy, IEEE CS Press, pp.289-300.
- C.13 G. Canfora, A. Cimitile, and C.A. Visaggio "*Lessons learned about distributed pair programming: what are the knowledge needs to address?*" proc. of the 12<sup>th</sup> Int'l Workshops

on Enabling Technologies: Infrastructure for Collaborative Enterprises (WETICE '03), June 2003, Linz, Austria, IEEE CS Press, pp.314-319.

- C.14 G.A. di Lucca, A.R. Fasolino, P. Tramontata, and C.A. Visaggio, “*Towards the definition of a Maintainability model for Web Applications*”, proc. of the 8th European Conference on Software Maintenance and Reengineering (CSMR'04), March 2004, Tampere, Finland, IEEE CS Press, pp.279-287.
- C.15 G. Canfora, A. Cimitile, and C.A.Visaggio “*Working in pairs as a means for design knowledge building: an empirical study* ”, proc. of the 12<sup>th</sup> Int'l Workshop on Program Comprehension (IWPC'04), June 2004, Bari, Italy, IEEE CS Press, pp.62-79.
- C.16 L. Aversano, G. Canfora, G. Capasso, G. Antonio di Lucca, and C.A. Visaggio, “*Introducing Quality System in Small and Medium Enterprises: an Experience Report*”, proc. of the 5th International Conference on Product Focused Software Process Improvement (PROFES'04), April 2004, Kansai Science City, Japan, pubblicato in (Eds F. Bomarius and H. Iida) Product Focused Software Process Improvement, LNCS 3009 (2004), Springer-Verlag, pp. 131-145.
- C.17 G. Canfora, A. Cimitile, F. Garcia, M. Piattini, and C.A. Visaggio, “*Confirming the influence on educational background in pair-design knowledge through experiments*”, proc. of the 20th Annual ACM Symposium on Applied Computing (SAC'05), March 2005, Santa Fe, New Mexico, USA, ACM Press, pp.1478-1484.
- C.18 E. Bellini, G. Canfora, A. Cimitile, F. Garcia, M. Piattini, and C.A. Visaggio, “*The impact of educational background on design knowledge sharing during pair programming: an empirical study*”, proc. of Third Biennial Conference WM 2005, Kaiserslautern, Germany, April 2005, in (Eds: K.D.Althoff, A.Dengel, R. Bergmann, M. Nick, T. Roth-Berghofer)n Professional Knowledge Management,LNAI3782, (2005), Springer-Verlag, pp. 455-465.
- C.19 E. Bellini, G. Canfora, G. Panza, and C.A. Visaggio “*Integrating Software Competences and Managerial Skills from Humanistic Background: a case study on University-Industry Higher Education Programs*”, proc. of Int'l Conference on Engineering Education (ICEE'03), July 2003, Valencia, Spain.
- C.20 E. Bellini, G. Canfora, G. Panza, and C.A. Visaggio “*Facing Complexity in IT Competence Development: a Multi-Disciplinary Approach To University-Industry Partnerships*”, proc. of the 17th NFF Conference 2003, Reykjavik, Island.
- C.21 F. Garcia, M. Piattini, F. Ruiz, and C. A. Visaggio, “*Maintainability of Software Process Models: An Empirical Study*” , proc. of the 9th European Conference on Software Maintenance and Reengineering (CSMR'05), March 2005, Manchester, UK, IEEE CS Press, pp. 246-255.
- C.22 G. Canfora, A. Cimitile, C:A:Visaggio, M.C: Annosi, ADMA: a process analyzer based on the actor dependency model, International Workshop on Learning Software Organization (LSO 06), 2006, Rio de Janeiro, Brasil.

## National Conferences

- N.1G. Canfora, E. Costante, I. Pennino, C.A. Visaggio, "Bottom up approach to manage data privacy policy through the front end filter paradigm" Secondo Workshop Italiano sulla Privacy e Sicurezza, Roma, 2007.
- N.2G. canfora, A. Cimitile, D. Vetrone, C.A. Visaggio, "Valutazione Empirica di Sistemi ERP Open Source" Conferenza Italiana sul Software Libero 2007
- N.3G. Canfora, A. Cimitile, and C.A. Visaggio, " *Un esperimento per la distribuzione del Pair Programming nella manutenzione del Software* ", in Atti del XLII Congresso Annuale AICA, Settembre 2004 Benevento, pp. 3-12.
- N.4G. Canfora, F. Garcia, M. Piattini, C.A. Visaggio " *Un esperimento sulla relazione tra pair designing e costruzione della conoscenza* ", in Atti del XLII Congresso Annuale AICA, Settembre 2004 Benevento, pp. 467-477.
- N.5E. Bellini, M. Cimitile, C.A. Visaggio, " *Un approccio contingente al riuso dei modelli di processo software* ", in Atti del XLII Congresso Annuale AICA, Settembre 2004, Benevento, pp. 279-476.
- N.6E. Bellini, G. Canfora, G. Panza, and C.A. Visaggio, " *L'Integrazione delle Competenze Tecnologiche nelle Relazioni Università-Imprese: Un Caso di Studio nelle Grandi Imprese ICT* ", in Atti del Congresso Annuale AICA 2003, Settembre 2003, Trento, pp. 305-335.
- N.7G. Canfora, A. Cimitile, and C.A. Visaggio, " *Applicare XP a progetti reali* ", in atti del Congresso Annuale AICA 2003, Settembre 2003, Trento, pp. 327-335.

## Books chapters

- L1. G. Canfora, A. Cimitile, C.A. Visaggio, " *Dynamic Software Community of Practice through Three-layered Competence Model* " in (Eds: A. Cimitile, A. de Lucia, and H. Gall) "Cooperative methods and tools for distributed software processes", 380.222 (2003), Collana RCOST/Tecnologie del Software diretta da Gerardo Canfora e Aniello Cimitile, Franco Angeli editore, Milano, pp. 135-148.
- L2. E. Bellini, G. Canfora, G. Panza, and C.A. Visaggio, " *L'Integrazione delle Competenze nelle Relazioni Università-Imprese: un Caso di Studio sulla Gestione dei Knowledge Workers nelle ICT* ", in (Eds: E. Bellini, and F. Bencardino) "Conoscenza, ICT, Territorio: un approccio interdisciplinare", 380.241 (2004), Collana RCOST/Tecnologie del Software diretta da Gerardo Canfora e Aniello Cimitile, Franco Angeli Editore, Milano, pp. 111-129.
- L3. G. Panza, G. Venturi, and C.A. Visaggio " *La Misurazione della Conoscenza Tecnologica nelle Organizzazioni Produttrici di Software* ", in (Eds: E. Bellini, and F. Bencardino) "Conoscenza, ICT, Territorio: un approccio interdisciplinare", 380.241 (2004), Collana RCOST/Tecnologie del Software diretta da Gerardo Canfora e Aniello Cimitile, Franco Angeli Editore, Milano, pp. 169-191.

## Short Papers

- S.1 C.A. Visaggio, “*Empirical Validation of Pair Programming*”, proc. of the 27th Inter’l Conference on Software Engineering (ICSE’05), May 2005, St. Louis, Missouri, USA, IEEE CS Press, pp.654.
- S.2 F.Garcia, M. Piattini, G. Canfora, C.A. Visaggio, “*FMESP: A Framework for the Modeling and Evaluation of Software* “, Workshop on Quantitative Techniques for Agile Software Processes, in ACM/Sigsoft FSE-12 , Newport Beach, CA ,USA, 2005 (in pubblicazione nei post proceedings)