

Raffaella Mirandola: curriculum vitæ et studiorum

Nome Raffaella Mirandola
Data di nascita
Affiliazione Politecnico di Milano, Dipartimento di Elettronica, Informazione e Bioingegneria
E-mail raffaella.mirandola@polimi.it
Web page <https://mirandola.faculty.polimi.it>

Istruzione e formazione

1994 - Dottorato in Ingegneria Informatica presso Università degli Studi di Roma Tor Vergata

1989 - Laurea in Scienze dell'Informazione presso Università degli Studi di Pisa

Posizioni ricoperte

2011 – ora **Professore Associato** presso il Dipartimento di Elettronica, Informazione e Bioingegneria, Politecnico di Milano

2005 – 2011 **Ricercatore confermato** presso il Dipartimento di Elettronica e Informazione, Politecnico di Milano

1997 – 2005 **Ricercatore** presso la Facoltà di Ingegneria dell'Università di Roma Tor Vergata

2018 – 2019 **International Visiting Full Professor**, presso *Linneus University, Sweden*

1995 – 1997 **Borsa di studio post-doc** presso la Facoltà di Ingegneria dell'Università di Roma Tor Vergata

1990 – 1994 **Studente di dottorato**, presso la Facoltà di Ingegneria dell'Università di Roma Tor Vergata

Abilitazione Scientifica nazionale

Nei seguenti settori:

Professore di prima fascia 09/H1 ING-INF/05 (da 16/01/2020 a 16/01/2029)

Professore di prima fascia 09/H1 ING-INF/05 (da 03/12/2013 a 03/12/2022)

Professore di prima fascia 01/B1, INF/01 (da 29/01/2014 a 29/01/2023)

Interessi di ricerca

L'attività scientifica degli ultimi anni si è concentrata principalmente nell'area dell'Ingegneria del software e in particolare nelle aree di: modellazione, analisi e verifica di requisiti di qualità per il software (quali performance e affidabilità), metodi formali per la progettazione e l'analisi di sistemi adattativi (considerando come casi di studio cloud systems e cyber-physical systems). In particolare, per quanto riguarda gli aspetti di qualità del software, la ricerca si è diretta alla generazione semi-automatica di modelli di performance e affidabilità durante tutte le fasi di sviluppo del software. Nell'ambito dei metodi formali per la progettazione e l'analisi di sistemi self-adaptive, sono stati definiti un linguaggio di specifica e un framework per l'uso di tecniche quantitative a run-time. Tale framework è stato integrato con un insieme di tecniche che propongono l'utilizzo di metodi formali per gestire sistemi adattativi e garantirne la correttezza, l'affidabilità e le prestazioni.

Un'altra area che è stata esplorata riguarda la ricerca sulla didattica e sull'educazione in Computer Science. In particolare, sono stati studiati i dati raccolti negli anni durante il corso Distributed Software Development con il duplice obiettivo di capire l'impatto di fattori quali diversità culturale e formativa nello sviluppo dei progetti durante il corso e di raffinare la didattica stessa in base a questi aspetti.

• Produzione Scientifica:

- 37 pubblicazioni su riviste, di cui 20 di livello Q1 - tra cui 3 IEEE Transactions on Software Engineering, 1 IEEE Transaction on Reliability, 1 IEEE Transaction on Mobile Computing, 2 Future Generation Computer Systems, 1 Communications of ACM, 1 ACM Transaction on Computing Education;

- 125 pubblicazioni scientifiche su peer reviewed conferenze internazionali - tra cui 2 ICSE papers (A++), 1 ESEC/FSE paper(A+) and 10+ ECSA-QoSA papers (A conference)

- **Impatto:**

- Per Google Scholar h-index 37 citazioni 8118
- Per Scopus h-index 25 citazioni 3955

Attività istituzionale

- 2013-ora Presidente della Commissione unica di laurea per il corso di studi di Ingegneria Informatica (I livello) e Computer Science and Engineering (II Livello)
- 2017-ora Membro del collegio di Dottorato in Ingegneria dell'Informazione/Information Technology, Politecnico di Milano
- 2006-ora Membro di numerose commissioni di concorso (in Italia) per ricercatori di tipoA, di tipoB e (in Europa) per lectures, senior lecturer e associate professor
- 2012 Membro della commissione di ammissione al dottorato, Politecnico di Milano

Organizzazione di Eventi Scientifici

- **Program (Co-) Chair**

- International Symposium on Software Engineering for Adaptive and Self-Managing Systems- SEAMS 2021
- European Software Architecture Conference - ECSA 2015
- ACM SAC Software Architecture: Theory, Technology, and Applications (SA-TTA) track (2013-2015)
- MOCS Model-based development, Components and Services Track at Euromicro SEAA Conference (2010-2012)
- ACM WOSP/SIPEW ICPE International Conference on Performance Engineering (2011)
- QoSA 2009: Fifth International Conference on the Quality of Software Architectures (2009)
- EUROMICRO Conference on Software Engineering and Advanced Applications (SEAA), 2008

- **General (Co-) Chair**

- European Conference on Software Architecture- ECSA 2021, Vaxjo, Sweden September 2021
- Comparch 2012, federated conference including CBSE (International ACM Sigsoft Symposium on Component Based Software Engineering), QoSA (International ACM Sigsoft Conference on the Quality of Software Architectures) and ISARCS (International ACM Sigsoft Symposium on Architecting Critical systems), Bertinoro, Italy, June 2012

- **Partecipazione a Steering Committee**

- SEAMS: ACM/IEEE International Symposium on Software Engineering for Adaptive and Self-Managing Systems
- ICPE: ACM International Conference on Performance Engineering
- ICSA: IEEE International Conference on Software Architecture
- ECSA: The European Conference on Software Architecture

- **Organizzazione di altri eventi**

- Doctoral Symposium chair at European Conference on Software Architecture- ECSA 2019
- Poster co-chair at IEEE/ACM International Conference on Software Engineering, ICSE 2018

- Doctoral Project track chair at the International Symposium on Software Engineering for Adaptive and Self-Managing Systems- SEAMS 2018:
 - Co-organizer of the first workshop on Gender Equality in Software Engineering, ICSE 2018
 - Workshop co-chair at the European Conference on Software Engineering - European Conference on Software Architecture- ECSA 2018
 - Co-organizer of the Woman in Software Architecture Track at the European Conference on Software Architecture-ECSA 2017
 - Workshop co-chair at the IEEE/ACM International Conference on Software Engineering - ICSE 2015
 - GI-Dagstuhl-Seminar: "Model-Driven Quality Prediction", November 2009
 - GI-Dagstuhl-Seminar: "Modelling Contest: Common Component Modelling Example", August 2007
- **Partecipazione a Program Committee.** Negli anni ho partecipato a molti program committee di conferenze internazionali, tra cui:
 - ICSE: the IEEE/ACM International Conference on Software Engineering
 - ICPE: the ACM International Conference on Performance Engineering
 - ICSEA: the IEEE International Conference on Software Architecture
 - ECSA: the European Conference on Software Architectures
 - SEAMS: the International Symposium on Software Engineering for Adaptive and Self-Managing Systems
 - MODELS: the ACM/IEEE International Conference on Model-Driven Engineering Language and Systems
 - SEAA: the Euromicro Conference on Software Engineering and Advanced Applications

Partecipazione Comitati Editoriali

- 2019-present **Special Issue co-Editor** Journal of System and Software, Elsevier
- 2014- 2018 **Associate editor** IEEE Transaction on Software Engineering,
- 2008- 2019 **Editorial Board** Journal of System and Software, Elsevier
- 2013 **Guest Editor** "Theme issue on performance modeling", Journal of Software and Systems Modeling, Springer, Volume 2013, 12, no. 4
- 2017 **Guest Editor** "New Frontiers in Software Architecture", Journal of Systems and Software, Elsevier, 2017; Vol. 130

Commission of Trust

- **Revisore esterno**
 - 2012 Research projects for the "Netherlands Organisation for Scientific Research", The Netherlands
 - 2012 Research projects for the "Fundacao para a Ciencia e a Tecnologia", Portugal
 - 2012 Research projects for the DFG priority program SPP 1593/1, Germany
 - 2015 Research projects for the DFG priority program SPP 1593/1, Germany
 - 2017, 2018 CLUSTER of EXCELLENCE projects, DFG, Germany
- **Partecipazione a comitati di selezione**
 - 2017 Comitato per la selezione di *Editor in Chief* for the IEEE Transaction on Software Engineering

- 2020 Comitato per la selezione di *Editor in Chief* for the ACM Transaction on Adaptive and Autonomous Systems

Attività didattica

A partire dal 1997, 2+ corsi insegnati per anno accademico, tra cui: Fondamenti di Informatica (laurea di primo livello), Computer Infrastructure (laurea magistrale), Software Engineering (laurea magistrale), Distributed Software Development (laurea magistrale). Nella tabella seguente viene riportata una selezione dei corsi insegnati negli ultimi anni accademici.

Istituzione	Nome del corso	CFU	No. di Studenti	Corso di studio di riferimento	Periodo	Valutazione degli studenti
POLIMI	Computer Science Fundamentals	10	300	CSE	2017-2021	Alta
POLIMI	Distributed Software Development	5	20	CSE	2013-2021	Alta
POLIMI	Software Engineering II	5	150	CSE	2010-2016	Media
POLIMI	Computing Infrastructure	5	150	CSE	2015-2017	Media
POLIMI	Impianti e Servizi Informatici	10	20	CSE-IOL	2016-2020	Alta

Attività di supervisione

- 2005- ora Co-advisor di 2 studenti di PhD al Politecnico di Milano, Co-advisor di 1 studente di PhD student all' Università di Roma Tor Vergata, Advisor of 1 studente di PhD al Gran Sasso Science Institute, L'Aquila. Advisor di due ricercatori 2 Post-Doc al Politecnico di Milano.
- 2010 -ora partecipazioni a commissioni PhD a: Malardalen University, Sweden, Malmo University, Sweden, University San Paolo, Brasil, University of Zaragoza, Spain, University of Calgary, Canada, University of Lisbona, Portugal.
- 2006- ora supervisione di of 40+ studenti di Laurea magistrale in Computer Engineering al Politecnico di Milano

Progetti

- **Progetti Europei**

- FP7 European project Q-ImPRESS: "Quality Impact Prediction for Evolving Service-Oriented Software", Principal Investigator per il Politecnico

Ho contribuito attivamente ai seguenti progetti di ricerca:

- H2020 CSA Dossier Cloud: Devops-based Software engineering for the cloud (Coordinator Cyprus University of Technology, Local PI Luciano Baresi)
- FP7 ICT SeaClouds: Seamless adaptive multi-cloud management of service-based applications (Coordinator: ATOS, Spain, Local PI Elisabetta Di Nitto)
- FP7 ERC-SMCom: Self-Managing Situated Computing (ERC grantee Carlo Ghezzi, Politecnico di Milano)

- FP7 NOE S-Cube: Software Services and Systems Network (Coordinator University of Duisburg-Essen, Local PI Carlo Ghezzi)
 - FP6-ICT CASCADAS: Component-ware for Autonomic Situation-aware Communications, and Dynamically Adaptable Services (Coordinator Telecom Italia, Local PI Elisabetta Di Nitto)
 - FP6 ICT PLASTIC: Providing Lightweight and Adaptable Service Technology for pervasive Information and Communication (Coordinator Inria, France, Local CNR PI Antonia Bertolino)
 - European Project "GAAS": Design and development of distributed Client/server Architectures for air traffic control systems (local Rome PI, Giuseppe Iazeolla)
 - EUROCONTROL Project "PAMPAS": A preliminary approach to performance modelling and analysis of air traffic control systems (local Rome PI, Giuseppe Iazeolla)
 - EUROCONTROL Project "EVAS: EATMS Validation Strategy" (local Rome PI Giuseppe Iazeolla)
- **Progetti di ricerca con fondi industriali**
 - PhD Scholarship di 3 anni con fondi forniti da Softeco Italy: 2009-2011
 - Due stages, ognuno della durata di 6 mesi in cooperazione con HP Italia, 2015
- **Progetti di Ricerca nazionali**

Ho contribuito attivamente ai seguenti progetti di ricerca italiani:

 - PRIN 2017 SISMA- Solutions for Engineering Microservice Architectures (Local PI Luciano Baresi)
 - PRIN 2012 IDEAS - Integrated Design and Evolution of Adaptive Systems, (Local PI Carlo Ghezzi)
 - PRIN 2008 DASAP: Architetture Software Adattabili e Affidabili per Sistemi Pervasivi, (Local PI Carlo Ghezzi)
 - FIRB Programmi Strategici 2005: ART DECO (Adaptive InfRasTructures for DECentralized Organizations), (Local PI Carlo Ghezzi)
 - FIRB - PERF (2002 - 2006) Performance Evaluation of Complex Systems: Techniques, Methodologies and Tools,(Local Rome PI Vincenzo Grassi)
 - PRIN 2001 SAHARA Software Architectures for Heterogeneous Access Infrastructures, (Local Rome PI Vincenzo Grassi)
 - PRIN 1999 SALADIN: Software Architectures and Languages to Coordinate Mobile Distributed Components, (Local Rome PI Vincenzo Grassi)
 - Certia-CERC Project "Software Process Optimization and Collaborative Environments for Software V&V" (Rome PI, Giuseppe Iazeolla)
 - CNR Project "Performance and Reliability Engineering of Distributed Databases"
 - ITALIAN MURST Project "Performability V&V of Product and Processes in Software Engineering"

Lista completa delle pubblicazioni

Refereed international journals	37
Refereed online international journals	4
Refereed international magazines	2
Editorial contributions	9
Refereed chapters in international books	16
Refereed international conferences	88
Refereed international workshops	23
Academic books	2

REFEREED INTERNATIONAL JOURNALS

- JR.1. S. Mahdavi-Hezavehi, D. Weyns, P. Avgeriou, R. Calinescu, R. Mirandola, D. Perez-Palacin "Uncertainty in Self-Adaptive Systems: A Research Community Perspective." *ACM Transactions on Adaptive and Autonomous Systems*, to appear
- JR.2. Andersson, J., Grassi, V., Mirandola, R., Perez-Palacin D. "A conceptual framework for resilience: fundamental definitions, strategies and metrics." *Computing* 103(4): 559-588 (2021)
[doi: <https://doi.org/10.1007/s00607-020-00874-x>]
- JR.3. M. D'Angelo, M. Caporuscio, V. Grassi, R. Mirandola "Decentralized Learning for Self-Adaptive QoS-Aware Service Assembly" *Future Generation Computer Systems, Elsevier*, on line first 2020
[doi: <https://doi.org/10.1016/j.future.2020.02.027>]
- JR.4. P. Arcaini, R. Mirandola, E. Riccobene, P. Scandurra "MSL: a pattern language for engineering self-adaptive systems" *Journal of Systems and Software, Elsevier*, online first 2020
[doi: <https://doi.org/10.1016/j.jss.2020.110558>]
- JR.5. M. Amiri, L. Mohammad-Khanlia, R. Mirandola "A new efficient approach for extracting the closed episodes for workload prediction in cloud" *Computing Journal, Springer*, 102(1): 141-200 (2020)
[doi: <https://doi.org/10.1007/s00607-019-00734-3>]
- JR.6. L. Pagliari, R. Mirandola, C. Trubiani "Engineering Cyber-Physical Systems through Performance-based Modelling and Analysis: A Case Study Experience Report" *Journal of Software: Evolution and Process, Wiley*, 32(1) (2020)
[doi: <https://doi.org/10.1002/smr.2179>]
- JR.7. I. Cavrak and I. Bosnic and F. Ciccozzi and R. Mirandola "Resilience of distributed student teams to stress factors: A longitudinal case-study" *Information and Software Technology*, Available on line (May 2019)
[doi: <https://doi.org/10.1016/j.infsof.2019.05.011>]
- JR.8. I. Bosnic and F. Ciccozzi and I. Crnkovic and I. Cavrak and E. Di Nitto and R. Mirandola and M. Zagar "Managing Diversity in Distributed Software Development Education - A Longitudinal Case Study" *ACM Transactions on Computing Education*, Volume 19 (2), 10:1-10:23, (2019)
[doi: <https://doi.org/10.1145/3218310>]
- JR.9. M. Amiri, L. Mohammad-Khanlia, R. Mirandola "An online learning model based on episode mining for workload prediction in cloud" *Future Generation Computer Systems, Elsevier*, Volume 87: 83-101 (2018)
[doi: <https://doi.org/10.1016/j.future.2018.04.044>]
- JR.10. M. Amiri, L. Mohammad-Khanlia, R. Mirandola "A sequential pattern mining model for application workload prediction in cloud environment" *Journal of Network and Computer Applications, Elsevier*, Volume 105: 21-62 (2018)
[doi: <https://doi.org/10.1016/j.jnca.2017.12.015>]
- JR.11. M. García-Valls and D. Perez-Palacin and R. Mirandola "Pragmatic cyber physical systems design based on parametric models" *Journal of Systems and Software, Elsevier* Volume 144, pp. 559-572, (2018)
[doi: <https://doi.org/10.1016/j.jss.2018.06.044>]
- JR.12. M. Caporuscio, C. Trubiani R. Mirandola "Building design-time and run-time knowledge for QoS-based component assembly" *Software: Practice and Experience, Wiley* Volume 47(12): 1905-1922 (2017)
[doi: <https://doi.org/10.1002/spe.2502>]
- JR.13. D. Perez Palacin, R. Mirandola, J. Meseguer "Accurate modeling and efficient QoS analysis of scalable adaptive systems under bursty workload" *Journal of Systems and Software, Elsevier* Volume 130, (August 2017), pp. 24-41
[doi: <https://doi.org/10.1016/j.jss.2017.05.022>]

- JR.14. M.Caporuscio, V. Grassi, M. Marzolla, R. Mirandola "GoPrime: a Fully Decentralized Middleware for Utility-Aware Service Assembly" *IEEE Transactions on Software Engineering* vol. 42, n.2, pp136–152, 2016
[doi: <http://dx.doi.org/10.1109/TSE.2015.2476797>]
- JR.15. V. Cortellessa, R. Mirandola, P. Potena "Managing the evolution of a software architecture at minimal cost under performance and reliability constraints" *Science of Computer Programming, Elsevier* Volume 98, pp 439-463, 2015
[doi: <http://dx.doi.org/10.1016/j.scico.2014.06.001>]
- JR.16. S. Distefano, C. Ghezzi, S. Guinea, R. Mirandola "Dependability Assessment of Web Service Orchestrations" *IEEE Transactions on Reliability* Volume 63,n.3, pp 689-705, 2014
[doi: <http://dx.doi.org/10.1109/TR.2014.2315939>]
- JR.17. R. Mirandola, P. Potena, E. Riccobene, P. Scandurra "A reliability model for Service Component Architectures" *Journal of Systems and Software, Elsevier* Volume 89, 2014, pp. 109-127
[doi: <http://dx.doi.org/10.1016/j.jss.2013.11.002>]
- JR.18. A. Ciancone, A. Filieri, R. Mirandola "Testing operational transformations in model-driven engineering" *Innovations in Systems and Software Engineering, Springer* Volume 10, n.1, pp. 19-32, 2014
[doi: <http://dx.doi.org/10.1007/s11334-013-0208-9>]
- JR.19. A. Ciancone, A. Filieri, M. L. Drago, V. Grassi, H. Koziolok, R. Mirandola "The KlaperSuite Framework for Model-Driven Reliability Analysis of Component-Based Systems" *Software and System Modeling, Springer* Volume 13, n.4, pp. 1269-1290, 2014
[doi: <http://dx.doi.org/10.1007/s10270-013-0334-8>]
- JR.20. R. Mirandola, P. Potena, P. Scandurra "Adaptation Space Exploration for Service-oriented Applications" *Science of Computer Programming, Elsevier* Volume 80, Part B (2014) pp. 356-384
[doi: <http://dx.doi.org/10.1016/j.scico.2013.09.017>]
- JR.21. D. Perez Palacin, R. Mirandola, J. Meseguer "On the Relationships between QoS and Software Adaptability at the Architectural Level" *Journal of Systems and Software, Elsevier* Volume 87, no. 1 (2014), pp.1-17
[doi: <http://dx.doi.org/10.1016/j.jss.2013.07.053>]
- JR.22. M. Marzolla, R. Mirandola "Dynamic Power Management for QoS-Aware Applications" *Sustainable Computing, Informatics and Systems, Elsevier* Volume 3, no. 4, (December 2013) pp. 231-248
[doi: <http://dx.doi.org/10.1016/j.suscom.2013.02.001>]
- JR.23. A. Koziolok, D. Ardagna, R. Mirandola "Hybrid Multi-Attribute QoS Optimization in Component Based Software Systems" *Journal of Systems and Software, Elsevier* Volume 86, no. 10 (2013), pp.2542-2558
[doi: <http://dx.doi.org/10.1016/j.jss.2013.03.081>]
- JR.24. R. Calinescu, C. Ghezzi, M. Kwiatkowska, R. Mirandola "Self-adaptive software needs quantitative verification at runtime" *Communications of ACM* Volume 55, no. 9 (2012), pp. 69-77
[doi: <http://dx.doi.org/10.1145/2330667.2330686>]
- JR.25. D. Perez Palacin, R. Mirandola, J. Meseguer "QoS and energy management with Petri nets: a self-adaptive framework" *Journal of Systems and Software, Elsevier* Volume 85, no. 12 (2012), pp.2796-2811
[doi: <http://dx.doi.org/10.1016/j.jss.2012.04.077>]
- JR.26. M. L. Drago, C. Ghezzi, R. Mirandola "A Quality Driven Extension to the QVT-Relations Transformation Language" *Computer Science - Research and Development, Springer* Volume 27, no. 2, (2012)
[doi: <http://dx.doi.org/10.1007/s00450-011-0202-0>]
- JR.27. V. Cardellini, E. Casalicchio, V. Grassi, S. Iannucci, F. Lo Presti, R. Mirandola "MOSES: a Framework for QoS Driven Runtime Adaptation of Service-oriented Systems" *IEEE Transactions on Software Engineering* Volume 38, no.5 (2012) pp. 1138-1159
[doi: <http://dx.doi.org/10.1109/TSE.2011.68>]
- JR.28. R. Calinescu, L. Grunske, M. Kwiatkowska, R. Mirandola, and G. Tamburrelli "Dynamic QoS Management and Optimisation in Service-Based Systems" *IEEE Transactions on Software Engineering* Volume 37, no.3 (2011) pp. 377-409
[doi: <http://dx.doi.org/10.1109/TSE.2010.92>]
- JR.29. D. Ardagna, R. Mirandola "Per-flow optimal service selection for Web services based processes" *Journal of Systems and Software, Elsevier* Volume 83, no. 8 (2010), pp. 1512-1523
[doi: <http://dx.doi.org/10.1016/j.jss.2010.03.045>]
- JR.30. A. Bertolino, E. Marchetti, R. Mirandola "Performance Measures for Supporting Project Manager Decision" *Software Process Improvement and Practice Journal, Wiley* Volume 12, no. 2 (2007), pp. 528-558
[doi: <http://dx.doi.org/10.1002/spip.312>]

- JR.31. V. Grassi, R. Mirandola, A. Sabetta "Filling the Gap Between Design and Performance/Reliability Models of Component-Based Systems: A Model-Driven Approach" *Journal of Systems and Software, Elsevier* Volume 80, no. 4 (2007), pp. 1512-1523
[doi: <http://dx.doi.org/10.1016/j.jss.2006.07.023>]
- JR.32. V. Grassi, R. Mirandola "Derivation of Markov Models for Effectiveness Analysis of Adaptable Software Architectures for Mobile Computing" *IEEE Transaction on Mobile Computing* Volume 2, no. 2 (2003), pp. 114-131
[doi: <http://dx.doi.org/10.1109/TMC.2003.1217232>]
- JR.33. Bertolino A., G.Lombardi, E.Marchetti, R. Mirandola, E. Peciola "A Reported Experience: Statistical Control of an Industrial Test Process" *IEE-Proceedings on Software* Volume 149, no. 4 (2002), pp. 98-101
- JR.34. Cortellessa V., Mirandola R. "PRIMA-UML: a Performance Validation Incremental Methodology on Early UML Diagrams" *Science of Computer Programming, Elsevier* Volume 44, no. 1 (2002), pp. 101-129
[doi: [http://dx.doi.org/10.1016/S0167-6423\(02\)00033-3](http://dx.doi.org/10.1016/S0167-6423(02)00033-3)]
- JR.35. Cortellessa V., Iazeolla G., Mirandola R. "Early Generation of Performance Models for Object-Oriented Systems" *IEE-Proceedings on Software* Volume 147, no. 3 (2000), pp. 61-72
- JR.36. A. Bertolino, R. Mirandola, E. Peciola "A Case Study in Branch Testing Automation" *Journal of Systems and Software, Elsevier* Volume 38, no. 1 (1997), pp.47-59
[doi: [http://dx.doi.org/10.1016/S0164-1212\(97\)00061-7](http://dx.doi.org/10.1016/S0164-1212(97)00061-7)]
- JR.37. R. Mirandola, D. Hollinger "A New Approach to Performance Modelling of Client/Server Distributed Data Base Architectures" *Performance Evaluation, Elsevier* Volume 29, no. 4 (1997), pp.255-272
[doi: [http://dx.doi.org/10.1016/S0166-5316\(96\)00047-8](http://dx.doi.org/10.1016/S0166-5316(96)00047-8)]

REFEREED ONLINE INTERNATIONAL JOURNALS

- OJ.1. M. Marzolla, R. Mirandola "PARSY: Performance-Aware Reconfiguration of Software Systems" *International Journal of Performability Engineering, RAMS Consultants* Volume 7, no. 5 (2011) pp. 479-492, ISSN 0973-1318
- OJ.2. R. Mirandola, P. Potena, "A QoS-based framework for the adaptation of service-based systems," *Scalable Computing: Practice and Experience* Volume 12, no. 1, (2011), ISSN 1895-1767
- OJ.3. Basanieri, F. Bertolino A., Marchetti E., Mirandola R. "UML-based Performance Analysis Techniques Applied to Software Multiprojects Management" *International Journal of Computer and Information Science (IJCIS)* Volume 4, no. 1 (2003), pp. 1-13
- OJ.4. A. Bertolino, R. Mirandola, "Modeling and Analysis of Non-functional Properties in Component-based Systems," *Electronic Notes in Theoretical Computer Science, Elsevier* Volume 82, no. 6, (2003), pp. 158-168,
[doi: [http://dx.doi.org/10.1016/S1571-0661\(04\)81034-X](http://dx.doi.org/10.1016/S1571-0661(04)81034-X)]

REFEREED INTERNATIONAL MAGAZINES

- MAG.1. A. Bertolino A., E.Marchetti, R. Mirandola "Decision support for Personnel and Resources Management in Multi-project environments" *ERCIM news* Volume 56, no. 1 (2004)
- MAG.2. A. Bertolino, M. Marré, R. Mirandola "The number of tests required for branch coverage" *Cross Talk* Volume 9, no. 9, (1996)

EDITORIAL CONTRIBUTIONS

- ED.1. J. Pérez, R. Mirandola, H. Chen: *Proceedings of the 12th European Conference on Software Architecture: Companion Proceedings, ECSA 2018*, ACM, isbn 978-1-4503-6483-6
- ED.2. D. Weyns, R. Mirandola, I. Crnkovic "Introduction to the special issue on New frontiers in software architecture" *Journal of System and Software, Elsevier* Volume 130: 57-58 (2017)
[doi: <http://dx.doi.org/10.1007/978-3-319-23727-5>]
- ED.3. D. Weyns, R. Mirandola, I. Crnkovic "Proceedings of 9th European Software Architecture Conference - ECSA 2015" *Lecture Notes on Computer Science, Springer LNCS 9278*, Springer 2015, ISBN 978-3-319-23726-8
[doi: <http://dx.doi.org/10.1007/978-3-319-23727-5>]
- ED.4. D. J. Lilja, R. Mirandola, "Introduction to the theme issue on performance modeling," *Journal of Software and Systems Modeling, Springer* Volume 12, no. 4, (2013), pp. 679-680
[doi: <http://dx.doi.org/10.1007/s10270-012-0269-5>]

- ED.5. V. Grassi, R. Mirandola, N. Medvidovic, M. Larsson "Proceedings of the 15th ACM SIGSOFT Symposium on Component Based Software Engineering, CBSE 2012" *Comparch '12 Federated Events on Component-Based Software Engineering and Software Architecture* ACM 2012, ISBN 978-1-4503-1345-2
- ED.6. V. Grassi, R. Mirandola, J. Cuellar, J. Lopez "Proceedings of the 3rd international ACM SIGSOFT symposium on Architecting Critical Systems, ISARCS 2012" *Comparch '12 Federated Events on Component-Based Software Engineering and Software Architecture* ACM 2012, ISBN 978-1-4503-1347-6
- ED.7. V. Grassi, R. Mirandola, B. Buhnova, A. Vallecillo "Proceedings of the 8th international ACM SIGSOFT conference on Quality of Software Architectures, QoSA 2012" *Comparch '12 Federated Events on Component-Based Software Engineering and Software Architecture* ACM 2012, ISBN 978-1-4503-1346-9
- ED.8. S. Kounev, V. Cortellessa, R. Mirandola, D. J. Lilja "ICPE'11 - Second Joint WOSP/SIPEW International Conference on Performance Engineering" ACM 2011, ISBN 978-1-4503-0519-8
- ED.9. Geri Georg, Janyvind Aagedal, Raffaella Mirandola, Ileana Ober, Dorina C. Petriu, Wolfgang Theilmann, Jon Whittle, Steffen Zschaler "Workshop on Models for Non-functional Properties of Component-Based Software - NfC, MoDELS Satellite Events 2005" LNCS 3844 Springer: 210-216
[doi: http://dx.doi.org/10.1007/11663430_22]

REFEREED CHAPTERS IN INTERNATIONAL BOOKS

- IB.1. R. de Lemos and D. Garlan and C. Ghezzi and H. Giese and J. Andersson and M. Litoiu and B. R. Schmerl and D. Weyns and L. Baresi and N. Bencomo and Y. Brun and J. Cámara and R. Calinescu and M. B. Cohen and A. Gorla and V. Grassi and L. Grunske and P. Inverardi and J. Jézéquel and S. Malek and R. Mirandola and M. Mori and H. A. Müller and R. Rouvoy and C. M. F. Rubira and É. Rutten and M. Shaw and G. Tamburrelli and G. Tamura and N. M. Villegas and T. Vogel and F. Zambonelli *Software Engineering for Self-Adaptive Systems: Research Challenges in the Provision of Assurances*, SefSAS III, LNCS 9640, pp 0-30, Springer 2017, ISBN 978-3-319-74182-6
[doi: https://doi.org/10.1007/978-3-319-74183-3_1]
- IB.2. D. Weyns, N. Bencomo, R. Calinescu, J. Cámara, C. Ghezzi, V. Grassi, L. Grunske, P. Inverardi, J. Jézéquel, S. Malek, R. Mirandola, M. Mori, G. Tamburrelli *Perpetual Assurances for Self-Adaptive Systems*, SefSAS III, LNCS 9640, pp 31-63, Springer 2017, ISBN 978-3-319-74182-6
[doi: https://doi.org/10.1007/978-3-319-74183-3_2]
- IB.3. V. Cardellini, E. Casalicchio, V. Grassi, S. Iannucci, F. Lo Presti and R. Mirandola *MOSES: a platform for experimenting QoS-driven self-adaptation policies for service oriented systems*, SefSAS III, LNCS 9640, pp 409-433, Springer 2017, ISBN 978-3-319-74182-6
[doi: https://doi.org/10.1007/978-3-319-74183-3_14]
- IB.4. R. Mirandola, P. Potena, E. Riccobene, P. Scandurra "Formal Reliability Models for Web Services" in *Correct Software in Web Applications and Web Services*, pp. 229-256 Springer 2015, ISBN 978-3-319-17111-1
[doi: http://dx.doi.org/10.1007/978-3-319-17112-8_7]
- IB.5. R. de Lemos and H. Giese and H. A. Müller and M. Shaw and J. Andersson and M. Litoiu and B. R. Schmerl and G. Tamura and N. M. Villegas and T. Vogel and D. Weyns and L. Baresi and B. Becker and Y. Brun and B. Cukic and R. J. Desmarais and S. Dustdar and G. Engels and K. Geihs and K. M. Göschka and A. Gorla and V. Grassi and P. Inverardi and G. Karsai and J. Kramer and A. Lopes and J. Magee and S. Malek and S. Mankovski and R. Mirandola and J. Mylopoulos and O. Nierstrasz and M. Pezzè and C. Prehofer and W. Schäfer and R. D. Schlichting and D. B. Smith and J. P. Sousa and L. Tahvildari and K. Wong and J. Wuttke "Software engineering for self-adaptive systems: A second research roadmap," in *Self-Adaptive Systems, Software Engineering for Self-Adaptive Systems*, SefSAS II, LNCS 7475, Springer 2012 pp. 1-32
[doi: http://dx.doi.org/10.1007/978-3-642-35813-5_1]
- IB.6. D. Weyns, B. Schmerl, V. Grassi, S. Malek, R. Mirandola, C. Prehofer, J. Wuttke, J. Andersson, H. Giese, and K. Göschka "On Patterns for Decentralized Control in Self-Adaptive Systems" in *Self-Adaptive Systems, Software Engineering for Self-Adaptive Systems*, SefSAS II, LNCS 7475, Springer 2012 pp. 76-107
[doi: http://dx.doi.org/10.1007/978-3-642-35813-5_4]
- IB.7. A. Filieri, C. Ghezzi, R. Mirandola, and G. Tamburrelli "Conquering Complexity via Seamless Integration of Design-Time and Run-Time Verification" in *Conquering complexity*, Springer 2012 pp. 253-275
[doi: http://dx.doi.org/10.1007/978-1-4471-2297-5_12]
- IB.8. D. Barbagallo, E. Di Nitto, D. J. Dubois, R. Mirandola "A bio-inspired algorithm for energy optimization in a self-organizing data center" in *Self-Organizing Architectures*, Springer 2010, LNCS 6090, pp. 101-126
[doi: http://dx.doi.org/10.1007/978-3-642-14412-7_7]

- IB.9. V. Cardellini, E. Casalicchio, V. Grassi, F. Lo Presti, R. Mirandola "Towards Self-adaptation for Dependable Service-Oriented Systems" in *Architecting Dependable Systems VI*, LNCS 5835, Springer 2009, pp 24-48
[doi: http://dx.doi.org/10.1007/978-3-642-10248-6_2]
- IB.10. B.H. C. Cheng and R. de Lemos and H. Giese and P. Inverardi and J. Magee and J. Andersson and B. Becker and N. Bencomo and Y. Brun and B. Cukic and G. Di Marzo Serugendo and S. Dustdar and A. Finkelstein and C. Gacek and K. Geihs and V. Grassi and G. Karsai and H. M. Kienle and J. Kramer and M. Litoiu and S. Malek and R. Mirandola and H. A. Müller and S. Park and M. Shaw and M. Tichy and M. Tivoli and D.Weyns and J. Whittle "Software Engineering for Self-Adaptive Systems: A Research Roadmap" in *Software Engineering for Self-Adaptive Systems*, LNCS 5525, Springer 2009 pp. 1-26
[doi: http://dx.doi.org/10.1007/978-3-642-02161-9_1]
- IB.11. V. Grassi, R. Mirandola, E. Randazzo "Model-Driven Assessment of QoS-Aware Self-Adaptation" in *Software Engineering for Self-Adaptive Systems*, LNCS 5525, Springer 2009 pp. 201-222
[doi: http://dx.doi.org/10.1007/978-3-642-02161-9_11]
- IB.12. V. Grassi, R. Mirandola, E. Randazzo, A. Sabetta "KLAPER: an Intermediate Language for Model-Driven Predictive Analysis of Performance and Reliability" in *The Common Component Modeling Example: Comparing Software Component Models*, LNCS 5153, Springer 2008 pp. 327-356
[doi: http://dx.doi.org/10.1007/978-3-540-85289-6_13]
- IB.13. R. Mirandola, F. Plasil "CoCoTA: Common Component Task" in *The Common Component Modeling Example: Comparing Software Component Models*, LNCS 5153, Springer 2008 pp. 4-15
[doi: http://dx.doi.org/10.1007/978-3-540-85289-6_2]
- IB.14. S. Becker, L. Grunske, R. Mirandola and S.Overhage "Performance Prediction of Component-Based Systems: A Survey from an Engineering Perspective" in *Architecting Systems with Trustworthy Components*, LNCS 3938, Springer 2006 pp. 169-192
[doi: http://dx.doi.org/10.1007/11786160_10]
- IB.15. G. Iazeolla A. D'Ambrogio, R. Mirandola "Software Performance Validation Strategies" in *System Performance Evaluation, Methodologies and Applications*, CRC Press, 2000
- IB.16. M. Conti, Mirandola R. "Hierarchical Performance Modelling of Computer Communication Systems" in *State of the art in Performance modelling and simulation - Modeling and simulation of computer and communication networks: techniques, tools and tutorials*, Gordon and Breach Publisher inc, Amst, New Jersey, USA 1997

REFEREED INTERNATIONAL CONFERENCES

- IC.1. M. Camilli, R. Mirandola, P. Scandurra Runtime Equilibrium Verification for Resilient Cyber-Physical Systems *Proceedings of the 2nd IEEE International Conference on Autonomic Computing and Self-Organizing Systems*, ACSOS to appear
- IC.2. V. Grassi, R. Mirandola The Tao way to anti-fragile software architectures: the case of mobile applications. *Proceedings of the 18th International Conference on Software Architecture*, ICSC Companion 2021: 86-89
- IC.3. R. Calinescu, R. Mirandola, D. Perez-Palacin and D. Weyns "Understanding Uncertainty in Self-adaptive Systems" *1st IEEE International Conference on Autonomic Computing and Self-Organizing Systems* (ACSOS 2020): 242-251 (Best paper candidate)
[doi: <https://doi.org/10.1109/ACSOS49614.2020.00047>]
- IC.4. M. Caporuscio, M. D'Angelo, V. Grassi and R. Mirandola "Decentralized Architecture for Energy-aware Service Assembly" *Proceedings of the 14th European Conference on Software Architecture*(ECSA 2020),LNCS 12292, 57-72, Springer 2020 (Best paper)
[doi: https://doi.org/10.1007/978-3-030-58923-3_4]
- IC.5. P. Arcaini, R. Mirandola, E. Riccobene, P. Scandurra, A. Arrigoni, D. Bosc, F. Modica, R. Pedercini: "Smart home platform supporting decentralized adaptive automation control." *Proceedings of the 35th ACM/SIGAPP Symposium on Applied Computing* 1893-1900
[doi: <https://doi.org/10.1145/3341105.3373925>]
- IC.6. R. Mirandola, E. Riccobene, P. Scandurra "Self-accounting in architecture-based self-adaptation" *ACM Proceedings of ECSA Companion 2019*, 14-17.
[doi: <https://doi.org/10.1145/3344948.3344957>]
- IC.7. M. Marzolla, R. Mirandola "Gender Balance in Computer Science and Engineering in Italian Universities" *ACM Proceedings of ECSA Women on Software Engineering Track, 2019*, 82-87
[doi: <https://doi.org/10.1145/3344948.3344966>]

- IC.8. P. Arcaini, R. Mirandola, E. Riccobene, P. Scandurra "A Pattern-Oriented Design Framework for Self-Adaptive Software Systems." *IEEE Proceedings of ICSC Companion 2019*, IEEE, 166-169.
[doi: <https://doi.org/10.1109/ICSC-C.2019.00037>]
- IC.9. P. Arcaini, R. Mirandola, E. Riccobene, P. Scandurra "A DSL for MAPE Patterns Representation in Self-adapting Systems." *Proceedings of the 12th European Conference on Software Architecture (ECSA 2018)*, LNCS 11048, Springer, 2018: 3-19
[doi: https://doi.org/10.1007/978-3-030-00761-4_1]
- IC.10. D. A. Tamburri, M. M. Bersani, R. Mirandola, G. Pea "DevOps Service Observability By-Design: Experimenting with Model-View-Controller." *ESOCC 2018*, LNCS 11116, 49-64 (Springer 2018)
[doi: https://doi.org/10.1007/978-3-319-99819-0_4]
- IC.11. T. Bures, V. Matena, R. Mirandola, L. Pagliari and C. Trubiani "Performance Modelling of Smart Cyber-Physical Systems", *WIP, ACM ICPE 2018*, April, Berlin.
[doi: <https://doi.org/10.1145/3185768.3186306>]
- IC.12. D. Brugali, R. Capilla, R. Mirandola, C. Trubiani "Model-based development of QoS-aware Reconfigurable Autonomous Robotic Systems" *Proceedings of the Second IEEE International Conference on Robotic Computing, 2018*, (IRC2018), 129-136
[doi: <https://doi.org/10.1109/IRC.2018.00027>]
- IC.13. L. Pagliari, R. Mirandola, C. Trubiani: "Multi-modeling approach to performance engineering of Cyber-Physical Systems design" *22nd International Conference on Engineering of Complex Computer Systems (ICECCS 2017)*
[doi: <https://doi.org/10.1109/ICECCS.2017.22>]
- IC.14. C. Trubiani, R. Mirandola "Continuous Rearchitecting of QoS Models: Collaborative Analysis for Uncertainty Reduction" *Proceedings of the 11th European Conference on Software Architecture (ECSA 2017)*, LNCS 10475, Springer, 2017: 40-48
[doi: https://doi.org/10.1007/978-3-319-65831-5_3]
- IC.15. I. Cavrak, I. Bosnic, M. Zagar, F. Ciccozzi, E. Di Nitto, R. Mirandola, I. Crnkovic: "Hall of Fame Nomination Paper: Distributed Software Development Course." *Proceedings of 30th IEEE Conference on Software Engineering Education and Training (CSEE&T) 2017*: 7-8
[doi: <https://doi.org/10.1109/CSEET.2017.13>]
- IC.16. Z. Alexeeva, D. Perez-Palacin, R. Mirandola "A literature overview on the adoption of techniques for design decision documentation" *Proceedings of the 10th European Conference on Software Architecture (ECSA 2016)*, LNCS 9839, Springer, 2016, 84-101
[doi: https://doi.org/10.1007/978-3-319-48992-6_6]
- IC.17. M. Caporuscio, M. D'Angelo, V. Grassi, R. Mirandola "Reinforcement Learning Techniques for Decentralized Self-adaptive Service Assembly" *Proceedings of ESOCC 2016*, LNCS 9846, Springer, 2016, 53-68
[doi: https://doi.org/10.1007/978-3-319-44482-6_4]
- IC.18. L. Pagliari, R. Mirandola, D. Perez-Palacin and C. Trubiani "Energy-aware adaptive techniques for information diffusion in ungoverned peer-to peer networks" *12th International ACM SIGSOFT Conference on Quality of Software Architectures (QoSA 2016)*, IEEE, QoSA 2017: 96-105
[doi: <http://dx.doi.org/10.1109/QoSA.2016.19>]
- IC.19. D. Perez-Palacin, R. Mirandola, F. Monterisi and A. Montoli, "QoS-driven Probabilistic Runtime Evaluations of Virtual Machine Placement on Hosts" *2015 IEEE/ACM 8th International Conference on Utility and Cloud Computing (UCC 2015)*, pp. 90-94 LNCS 9306, Springer, 2015
[doi: <http://dx.doi.org/10.1109/UCC.2015.24>]
- IC.20. V. Cardellini, M. D'Angelo, V. Grassi, M. Marzolla R. Mirandola "A Decentralized Approach to Network-Aware Service Composition" *Proceedings of the 4th European Conference on Service Oriented and Cloud Computing (ESOCC 2015)*, pp. 34-48 LNCS 9306, Springer, 2015
[doi: http://dx.doi.org/10.1007/978-3-319-24072-5_3]
- IC.21. R. Mirandola, D. Perez-Palacin, P. Scandurra, M. Brignoli, A. Zonca "Business Process Adaptability Metrics for QoS-Based Service Compositions" *Proceedings of the 4th European Conference on Service Oriented and Cloud Computing (ESOCC 2015)*, pp. 110-124 LNCS 9306, Springer, 2015
[doi: http://dx.doi.org/10.1007/978-3-319-24072-5_8]
- IC.22. M. Caporuscio, R. Mirandola, C. Trubiani "QoS-based Feedback for Service Compositions" *Proceedings of the 11th International ACM SIGSOFT Conference on Quality of Software Architectures (QoSA 2015)*, pp. 37-42
[doi: <http://dx.doi.org/10.1145/2737182.2737192>]

- IC.23. M. Garcia-Valls, D. Perez-Palacin, R. Mirandola. "Extending the verification capabilities of middleware for reliable distributed self-adaptive systems." *Proceedings of the 12th IEEE International Conference on Industrial Informatics* (INDIN 2014), pp. 164-169
[doi: <http://dx.doi.org/10.1109/INDIN.2014.6945502>]
- IC.24. D.Perez-Palacin, R. Mirandola, R. Calinescu "Synthesis of Adaptation Plans for Cloud Infrastructure with Hybrid Cost Models" *Proceedings of the 40th Euromicro Conference on Software Engineering and Advanced Applications*(SEAA 2014), pp. 443-450
[doi: <http://dx.doi.org/10.1109/SEAA.2014.57>]
- IC.25. M. Garcia-Valls, D.Perez-Palacin, R. Mirandola "Time-sensitive adaptation in CPS through run-time configuration generation and verification" *Proceedings of the 38th Annual International Computers, Software & Applications Conference* (COMPSAC), 2014, pp. 332-337
[doi: <http://dx.doi.org/10.1109/COMPSAC.2014.55>]
- IC.26. D.Perez-Palacin, R. Mirandola "Dealing with uncertainties in the performance modelling of software systems" *Proceedings of the 10th International ACM SIGSOFT Conference on the Quality of Software Architectures* (QoSA), 2014, pp. 33-42
[doi: <http://dx.doi.org/10.1145/2602576.2602582>]
- IC.27. D.Perez-Palacin, R. Mirandola "Uncertainties in the modeling of self-adaptive systems: a taxonomy and an example of availability evaluation", *Proc. ACM Int. Conf. on Performance Engineering* (ICPE 2014), pp. 3-14
[doi: <http://dx.doi.org/10.1145/2568088.2568095>]
- IC.28. V. Cortellessa, F. Marinelli, R. Mirandola. P. Potena "Quantifying the influence of failure repair/mitigation costs on Service-Based Systems" *Proc. IEEE Int. Symposium. on Reliability Engineering* (ISSRE), 2013
[doi: <http://dx.doi.org/10.1109/ISSRE.2013.6698908>]
- IC.29. S. Becker, L. Happe, R. Mirandola and C. Trubiani "Towards a Methodology Driven by Dependencies of Quality Attributes for QoS-based Analysis" *Proc. ACM Int. Conf. on Performance Engineering* (ICPE) 2013, pp 311-341
[doi: <http://dx.doi.org/10.1145/2479871.2479914>]
- IC.30. V. Grassi, M. Marzolla and R. Mirandola "QoS-Aware Fully Decentralized Service Assembly" *Proc. IEEE/ACM 8th International Symposium on Software Engineering for Adaptive and Self-Managing Systems* (SEAMS) 2013, pp 53-62, ISBN: 978-1-4673-4401-2
- IC.31. C. Bartolini, A. Bertolino, G. De Angelis, A. Ciancone, and R. Mirandola "Apprehensive QoS Monitoring of Service Choreographies" *Proc. of the 28th Annual ACM Symposium on Applied Computing* (SAC) , ACM 2013,pp. 1893-1899
[doi: <http://dx.doi.org/10.1145/2480362.2480713>]
- IC.32. R. Mirandola, P. Potena, P. Scandurra "A Reliability Prediction Method for Abstract State Machines" *Abstract State Machines, Alloy, B, VDM, and Z - Third International Conference* (ABZ) 2012, LNCS 7316, pp. 336-340
[doi: http://dx.doi.org/10.1007/978-3-642-30885-7_26]
- IC.33. R. Mirandola, C. Trubiani "A deep investigation for QoS-based Feedback at Design time and Runtime" *Proc. of 17th IEEE International Conference on Engineering of Complex Computer Systems* (ICECCS) 2012, pp. 147-156
[doi: <http://doi.ieeecomputersociety.org/10.1109/ICECCS.2012.3>]
- IC.34. D.Perez-Palacin, JoseÓ Merseguer, R. Mirandola "Analysis of Bursty Workload-aware Self-adaptive Systems", *Proc. ACM Int. Conf. on Performance Engineering* (ICPE) 2012, pp.75-84
[doi: <http://dx.doi.org/10.1145/2188286.2188300>]
- IC.35. C. Bartolini, A. Bertolino, A. Ciancone G. De Angelis, R. Mirandola "Quality requirements for service choreographies" *Proceedings of the 8th International Conference on Web Information Systems and Technologies* (WEBIST) 2012, pp.143-148, SciTePress 2012 ISBN 978-989-8565-08-2
- IC.36. P. Scandurra, C. Raibulet, P. Potena, R. Mirandola, R. Capilla "Adapting Cloud-Based Applications Trough A Coordinated And Optimized Resource Allocation Approach" *Proceedings of the 2nd International Conference on Cloud Computing and Services Science* (CLOSER) 2012, pp. 355-364, SciTePress 2012 IISBN 978-989-8565-05-1
- IC.37. M. Marzolla, R. Mirandola "A Framework For Qos-Aware Execution Of Workflows Over The Cloud" *Proceedings of the 2nd International Conference on Cloud Computing and Services Science* (CLOSER) 2012, pp. 216-221, SciTePress 2012 IISBN 978-989-8565-05-1
- IC.38. G. Lulli, R. Mirandola, P. Potena, C. Raibulet "Resource Management in the Air Traffic Domain" *5th European Conference on Software Architecture* (ECSA) 2011, LNCS 6903, pp. 97-104
[doi: http://dx.doi.org/10.1007/978-3-642-23798-0_10]
- IC.39. M. L. Drago, C. Ghezzi, R. Mirandola "Towards Quality Driven Exploration of Model Transformation Spaces" *14th International Conference on Model Driven Engineering Languages and Systems* (MoDELS) 2011, LNCS 6981, pp. 2-16
[doi: http://dx.doi.org/10.1007/978-3-642-24485-8_2]

- IC.40. R. Mirandola, P. Potena and P. Scandurra "An Optimization Process for Adaptation Space Exploration of Service-oriented Applications" *IEEE 6th International Symposium on Service Oriented System Engineering (SOSE)* 2011, pp. 146-151
[doi: <http://dx.doi.org/10.1109/SOSE.2011.6139103>]
- IC.41. H. Koziolok, B. Schlich, C. Bilich, R. Weiss, S. Becker, K. Krogmann, M. Trifu, R. Mirandola, and A. Martens "An Industrial Case Study on Quality Impact Prediction for Evolving Service-Oriented Software" *IEEE/ACM International Conference on Software Engineering (ICSE) Software Engineering in Practice Track*, 2011, pp. 776-785
[doi: <http://dx.doi.org/10.1145/1985793.1985902>]
- IC.42. A. Ciancone, M. L. Drago, A. Filieri, V. Grassi and R. Mirandola "KlaperSuite: an Integrated Model-Driven Environment for Non-Functional Requirements Analysis of Component-Based Systems" *Proc. of the 49th International Conference on Objects, Models, Components, Patterns (TOOLS)* 2011, pp. 99-114
[doi: http://dx.doi.org/10.1007/978-3-642-21952-8_9]
- IC.43. S. Distefano, A. Filieri, C. Ghezzi, R. Mirandola "A compositional method for reliability analysis of workflows affected by multiple failure modes" *Proceedings of the 14th International ACM Sigsoft Symposium on Component Based Software Engineering (CBSE)* 2011, pp. 149-158
[doi: <http://dx.doi.org/10.1145/2000229.2000251>]
- IC.44. D. Perez-Paacin, R. Mirandola, J. Merseguer "Enhancing a QoS-based Self-adaptive Framework with Energy Management Capabilities" *Proceedings of the 7th International Conference on the Quality of Software Architectures (QoSA)* 2011, pp. 165-170
[doi: <http://dx.doi.org/10.1145/2000259.2000288>]
- IC.45. D. Perez-Paacin, R. Mirandola, J. Merseguer "Software Architecture Adaptability Metrics for QoS-based self-adaptation" *Proceedings of the 7th International Conference on the Quality of Software Architectures (QoSA)* 2011, pp. 171-176
[doi: <http://dx.doi.org/10.1145/2000259.2000287>]
- IC.46. A. Filieri, C. Ghezzi, V. Grassi, R. Mirandola "Reliability Analysis of Component-Based Systems with Multiple Failure Modes" *Proceedings of the 13th International ACM Sigsoft Symposium on Component Based Software Engineering (CBSE)* 2010, LNCS 6092, pp 1-20
[doi: http://dx.doi.org/10.1007/978-3-642-13238-4_1]
- IC.47. V. Cortellessa, R. Mirandola, P. Potena "Selecting Optimal Maintenance Plans based on Cost/Reliability Tradeoffs for Software Subject to Structural and Behavioral Changes" *Proceedings of the 14th IEEE European Conference on Software Maintenance and Reengineering (CSMR)* 2010, pp 21-30
[doi: <http://dx.doi.org/10.1109/CSMR.2010.15>]
- IC.48. A. Ciancone, A. Filieri, R. Mirandola "MANTra: Towards Model Transformation Testing" *Proceedings of the IEEE International Conference on the Quality of Information and Communications Technology (QUATIC)* 2010, pp 97 - 105
[doi: <http://dx.doi.org/10.1109/QUATIC.2010.15>]
- IC.49. A. Martens, D. Ardagna, H. Koziolok, R. Mirandola and R. Reussner "A Hybrid Approach for Multi-Attribute QoS Optimisation in Component-Based Software Systems" *Proceedings of the 6th International Conference on the Quality of Software Architectures (QoSA)* 2010, LNCS 6093, pp 84-101
[doi: http://dx.doi.org/10.1007/978-3-642-13821-8_8]
- IC.50. R. Mirandola, P. Potena "Self-Adaptation of Service Based Systems Based on Cost/Quality Attributes Tradeoffs" *Proceedings of 12th IEEE International Symposium on Symbolic and Numeric Algorithms for Scientific Computing (SYNASC)* 2010, pp. 493-501
[doi: <http://dx.doi.org/10.1109/SYNASC.2010.16>]
- IC.51. V. Cardellini, E. Casalicchio, V. Grassi, F. Lo Presti, R. Mirandola "Qos-driven runtime adaptation of service oriented architectures" *Proceedings of the 7th joint meeting of the European Software Engineering Conference and the ACM SIGSOFT International Symposium on Foundations of Software Engineering (ESEC/FSE)* 2009, pp. 131-140
[doi: <http://dx.doi.org/10.1145/1595696.1595718>]
- IC.52. V. Cardellini, E. Casalicchio, V. Grassi, F. Lo Presti, R. Mirandola "A Scalable Approach to QoS-Aware Self-adaption in Service-Oriented Architectures" *Quality of Service in Heterogeneous Networks, 6th International ICST Conference on Heterogeneous Networking for Quality, Reliability, Security and Robustness (QShine)* 2009, Lecture Notes of the Institute for Computer Sciences, Social Informatics and Telecommunications Engineering 22 Springer, pp. 431-447
[doi: http://dx.doi.org/10.1007/978-3-642-10625-5_27]
- IC.53. I. Epifani, C. Ghezzi, R. Mirandola, G. Tamburrelli "Model evolution by run-time parameter adaptation" *31st IEEE/ACM International Conference on Software Engineering (ICSE)* 2009, pp. 111-121
[doi: <http://dx.doi.org/10.1109/ICSE.2009.5070513>]

- IC.54. E. Di Nitto, D. J. Dubois, R. Mirandola "Overlay self-organization for traffic reduction in multi-broker publish-subscribe systems" *IEEE International Conference on Autonomic Computing (ICAC)* 2009, pp. 61-62 **Poster presentation**
[doi: <http://dx.doi.org/10.1145/1555228.1555246>]
- IC.55. S. Gallotti, C. Ghezzi, R. Mirandola, and G. Tamburrelli "Quality Prediction of Service Compositions through Probabilistic Model Checking" *Proceedings of the 4th International Conference on the Quality of Software Architectures (QoSA)* 2008, LNCS 5281, pp 119-134
[doi: http://dx.doi.org/10.1007/978-3-540-87879-7_8]
- IC.56. D. Ardagna, C. Ghezzi, R. Mirandola "Rethinking the use of models in software architecture" *Proceedings of the 4th International Conference on the Quality of Software Architectures (QoSA)* 2008, LNCS 5281, pp 1-27
[doi: http://dx.doi.org/10.1007/978-3-540-87879-7_1]
- IC.57. E. Di Nitto, D. J. Dubois, R. Mirandola, F. Saffre, R. Tateson "Self-Aggregation Techniques for Load Balancing in Distributed Systems" *IEEE International Conference on Self-Adaptive and Self-Organizing Systems (SASO)* 2008, pp. 489-490 **Poster presentation**
[doi: <http://dx.doi.org/10.1109/SASO.2008.38>]
- IC.58. D. Ardagna, C. Ghezzi, R. Mirandola "Model Driven QoS Analyses of Composed Web Services" *Towards a Service-Based Internet, First European Conference (ServiceWave)* 2008, LNCS 5377, pp.299-311
[doi: http://dx.doi.org/10.1007/978-3-540-89897-9_26]
- IC.59. E. Di Nitto, D. Dubois, R. Mirandola "Self-Aggregation Algorithms for Autonomic Systems" *Proceedings of International Conference on Bio-Inspired Models of Network, Information, and Computing Systems (BIONETICS)* 2007, pp. 114-122, ISBN: 9781424436491
- IC.60. D. Devescovi, E. Di Nitto, D. Dubois, R. Mirandola "Self Organization Algorithms for Autonomic Systems in the SelfLet Approach" *Proceedings of the 1st International Conference on Autonomic Computing and Communication Systems (Autonomics)* ACM 2007, art. 26, ISBN: 978-963-9799-09-7
- IC.61. M. Marzolla, R. Mirandola "Performance Prediction of Web Service Workflows" *Third International Conference on Quality of Software Architectures (QoSA)* 2007, LNCS 4880, pp.127-144
[doi: http://dx.doi.org/10.1007/978-3-540-77619-2_8]
- IC.62. V. Grassi, R. Mirandola, A. Sabetta "A model-driven approach to performability analysis of dynamically reconfigurable component-based systems" *Proceedings of the 6th International Workshop on Software and Performance (WOSP)* ACM 2007, pp.103-114
[doi: <http://dx.doi.org/10.1145/1216993.1217011>]
- IC.63. V. Grassi, R. Mirandola, A. Sabetta "A Model Transformation Approach for the Early Performance and Reliability Analysis of Component-Based Systems," *Proceedings of the 9th International Symposium on Component Based Software Engineering (CBSE)* Springer 2006, LNCS 4063, pp.270-284
[doi: http://dx.doi.org/10.1007/11783565_19]
- IC.64. S. Balsamo, M. Marzolla, R. Mirandola "Efficient Performance Models in Component-Based Software Engineering," *Proceedings of the IEEE Euromicro Conference on Software Engineering and Advanced Applications (EUROMICRO-SEAA)* IEEE 2006, pp.64-71
[doi: <http://dx.doi.org/10.1109/EUROMICRO.2006.34>]
- IC.65. D. Ardagna, G. Giunta, N. Ingraffia, R. Mirandola, B. Pernici "QoS-Driven Web Services Selection in Autonomic Grid Environments" *OTM Confederated International Conferences* Springer 2006, LNCS 4276, pp.1273-1289
[doi: http://doi.ieeecomputersociety.org/10.1007/11914952_16]
- IC.66. A. Di Marco, R. Mirandola "Model Transformation in Software Performance Engineering" *Second International Conference on Quality of Software Architectures (QoSA)* 2006, LNCS 4214, pp.95-110
[doi: http://dx.doi.org/10.1007/11921998_11]
- IC.67. V. Grassi, R. Mirandola, A. Sabetta "From design to analysis models: a kernel language for performance and reliability analysis of component-based systems" *Proc. of 5th ACM Workshop on Software and Performance (WOSP)* ACM 2005, pp.25-36
[doi: <http://dx.doi.org/10.1145/1071021.1071024>]
- IC.68. A. Bertolino, G. De Angelis, R. Mirandola "UML-based design of network processor applications," *Proceedings of the IEEE Euromicro Conference on Software Engineering and Advanced Applications (EUROMICRO-SEAA)* IEEE 2006, pp.424-431
[doi: <http://doi.ieeecomputersociety.org/10.1109/EURMIC.2005.63>]
- IC.69. V. Grassi, R. Mirandola, A. Sabetta "An XML-Based Language to Support Performance and Reliability Modeling and Analysis in Software Architectures." *First International Conference on Quality of Software Architectures (QoSA)* Springer 2005, LNCS 3712, pp.71-87
[doi: http://dx.doi.org/10.1007/11558569_7]

- IC.70. S. Afsharian, A. Bertolino, G. De Angelis, P. Iovanna, R. Mirandola "A Model-based approach to design applications for network processors" *Proceedings of Rapid Integration of Software Engineering Techniques, First International Workshop, RISE 2004, Luxembourg-Kirchberg, Luxembourg, November 26, 2004, Revised Selected Papers (RISE)* Springer 2004, LNCS 3475, pp. 93-101
[doi: http://dx.doi.org/10.1007/11423331_9]
- IC.71. V. Grassi, R. Mirandola, A. Sabetta "UML based Modeling and Performance Analysis of Mobile systems" *Proceedings of the 7th International Symposium on Modeling Analysis and Simulation of Wireless and Mobile Systems (MSWiM)* ACM 2004, pp.95-104
[doi: <http://dx.doi.org/10.1145/1023663.1023683>]
- IC.72. V. Grassi, R. Mirandola, A. Sabetta "A UML Profile to Model Mobile systems" *"UML" 2004 - The Unified Modelling Language: Modelling Languages and Applications. 7th International Conference*, (UML) Springer 2004, LNCS 3273, pp. 128-142
[doi: http://dx.doi.org/10.1007/978-3-540-30187-5_10]
- IC.73. Bertolino A., Mirandola R "CB-SPE tool: putting component-based Performance Engineering into practice" *Proceedings of the 7th International Symposium on Component-based Software Engineering (CBSE)* Springer 2004, LNCS 3054, pp 233-248
[doi: http://dx.doi.org/10.1007/978-3-540-24774-6_21]
- IC.74. V. Grassi, R. Mirandola "Towards Automatic Compositional Performance Analysis of Component-based Systems" *Proc. of 4th ACM Workshop on Software and Performance (WOSP)* ACM 2004, pp.59-63
[doi: <http://dx.doi.org/10.1145/974043.974052>]
- IC.75. Bertolino A., Mirandola R "Software Performance Engineering of Component-based systems" *Proc. of 4th ACM Workshop on Software and Performance (WOSP)* ACM 2004, pp.238-242
[doi: <http://dx.doi.org/10.1145/974043.974081>]
- IC.76. D'Ambrogio A., G. Iazeolla, R. Mirandola "A Method for the prediction of software reliability" *Proceedings of the sixth IASTED International Conference Software Engineering and Applications (SEA)* IASTED 2002, pp.234-240
- IC.77. Cortellessa V, Grassi V, Mirandola R. "Performance Validation of mobile software architecture" *utorial PERFORMANCE 2002 IFIP WG 7.3 International Symposium on Computer Performance Modeling, Measurement and Evaluation (Performance)* Springer 2002, LNCS 2459, pp 346-373
[doi: http://dx.doi.org/10.1007/3-540-45798-4_15]
- IC.78. Bertolino A., Marchetti E., Mirandola R. "Real-Time UML-based Performance Engineering to Aid Manager's Decisions in Multi-project Planning" *Proc. of 3rd ACM Workshop on Software and Performance (WOSP)* ACM 2002, pp.251-261
[doi: <http://dx.doi.org/10.1145/584369.584410>]
- IC.79. Grassi V., Mirandola R. "PRIMA-mob-UML: a methodology for performance analysis of mobile software architecture" *Proc. of 3rd ACM Workshop on Software and Performance (WOSP)* ACM 2002, pp.262-274
[doi: <http://dx.doi.org/10.1145/584369.584411>]
- IC.80. Basanieri, F. Bertolino A., Marchetti E., Mirandola R. "Automating the management of Teams and Tasks in Software Multiprojects using UML and Queueing Networks" *Proceedings of 3rd ACIS International Conference on Software Engineering, Artificial Intelligence, Networking and Parallel/Distributed Computing (SNPD)* ACIS 2002, pp.162-174
- IC.81. Grassi V., Mirandola R. "UML Modelling and Performance Analysis of Mobile Software Architecture" *Proceedings UML 2001, the Unified Modelling Language: Modelling Languages and Applications (UML)* Springer 2001, LNCS 2185, pp.209-224
[doi: http://dx.doi.org/10.1007/3-540-45441-1_16]
- IC.82. Mirandola R., Cortellessa V. "UML Based Performance Modelling of Distributed Systems" *Proceedings UML 2000, the Unified Modelling Language: Modelling Languages and Applications (UML)* Springer 2000, LNCS 1939, pp.178-193
[doi: http://dx.doi.org/10.1007/3-540-40011-7_13]
- IC.83. Cortellessa V., Mirandola R " A Methodology for Deriving a Queueing Network based Performance Model from UML Diagrams" *Proceedings of Second ACM International Workshop on Software and Performance (WOSP)* ACM 2000, pp.58-70
[doi: <http://dx.doi.org/10.1145/350391.350406>]
- IC.84. Lombardi G., Peciola, E., Mirandola R., Bertolino A., Marchetti E. " Towards Statistical Control of an Industrial Test Process" *Proceedings of SAFECOMP'99* Springer 2000, LNCS 1698, pp.260-271
[doi: http://dx.doi.org/10.1007/3-540-48249-0_23]
- IC.85. Clo C., Mirandola R. " Exact Aggregation Technique for Queueing Networks with Blocking" *Proceedings of IASTED "Applied Modeling and Simulation* IASTED 1999, pp. 324-330

- IC.86. Iazeolla G., Mirandola R. "Analysis of two simulation methodologies in performance studies of distributed data bases" *Proceeding of European Simulation Symposium(ESS)* Society for Computer Simulation International 1995.
- IC.87. Bertolino A., Mirandola R., Peciola E. "A case Study in Branch Testing Automation" *Proceedings of IFIP International Conference on "Achieving Quality in Software"* (AQUIS) Springer, IFIP Ñ The International Federation for Information Processing 1996, pp 369-380
[doi: http://dx.doi.org/10.1007/978-0-387-34869-8_30]
- IC.88. Mirandola R., Iazeolla G., Bruti M "Performance Analysis of Client Server Data Bases by the Independent Modelling Approach" *Proceedings of EUROSIM 95, European Simulation Congress(ESS)* Elsevier 1995, ISBN 0-444-82241-0, pp. 517-522
- IC.89. Mirandola R., "Decomposition and aggregation technique for performance evaluation of parallel processing systems" *Proceedings of European Simulation Multiconference* Society for Computer Simulation International 1994.
- IC.90. Balsamo S., Cappuccio M., Donatiello L., Mirandola R. "Some Remarks on Hybrid Simulation Methodology" *Proceedings of the International Conference "Summer Computer Simulation Conference* Society for Computer Simulation International 1990, pp. 30-37.

REFEREED INTERNATIONAL WORKSHOPS

- NC.1. L. Pagliari, M. D'Angelo, M. Caporuscio, R. Mirandola, C. Trubiani Performance Modelling of Intelligent Transportation Systems: Experience Report. *Companion Publication for ACM/SPEC on International Conference on Performance Engineering, ICPE 2021 Companion, ACM* : 155-160
- NC.2. J. Andersson, V. Grassi, R. Mirandola and D. Perez-Palacin "A distilled characterization of resilience and its embraced properties based on state-spaces" *Proceedings of the 11th International Workshop on Software Engineering for Resilient Systems*, LNCS 11732 2019, 11-25
- NC.3. A. Guerriero, R. Mirandola, R. Pietrantuono, S. Russo: "A Hybrid Framework for Web Services Reliability and Performance Assessment". *ISSRE Workshops 2019* 185-192
- NC.4. L. Pagliari, M. D'Angelo, M. Caporuscio, R. Mirandola and C. Trubiani "Towards a Continuous Model-based Engineering Process for QoS-aware Self-adaptive Systems" *Proceedings of 3rd Workshop on Formal Approaches for Advanced Computing Systems*, ACM 2019, 139-144
- NC.5. M. D'Angelo, L. Pagliari, M. Caporuscio, R. Mirandola and C. Trubiani "To What Extent Formal Methods are Applicable for Performance Analysis of Smart Cyber-Physical Systems?" *Proceedings of International Workshop on Automated and verifiable Software sYstem DEvelopment*, LNCS 2019,
- NC.6. L. Pagliari, R. Mirandola, C. Trubiani "A Case Study to Elicit Challenges for Performance Engineering of Cyber Physical Systems" *Companion Publication for ACM/SPEC on International Conference on Performance Engineering, ICPE 2017 Companion, ACM* , pp.217-222
- NC.7. G. Vergori, D. Tamburri, D. Perez-Palacin, R. Mirandola "DevOps Performance Engineering: A Quasi-Ethnographical Study" *Companion Publication for ACM/SPEC on International Conference on Performance Engineering, ICPE 2017 Companion, ACM* , pp.127-132
- NC.8. D. Perez-Palacin, R. Mirandola, M. Scoppetta: "Simulation of Techniques to Improve the Utilization of Cloud Elasticity in Workload-aware Adaptive Software." *Companion Publication for ACM/SPEC on International Conference on Performance Engineering, ICPE 2016 Companion, ACM* , pp.51-56
[doi: <http://dx.doi.org/10.1145/2859889.2859897>]
- NC.9. P. Scandurra and G. Psaila and R. Capilla, R. Mirandola "Challenges and Assessment in Migrating IT Legacy Applications to the Cloud." *IEEE proceedings of MESOCA* 2015, pp 7-14
[doi: <http://dx.doi.org/10.1109/MESOCA.2015.7328120>]
- NC.10. D. A. Tamburri, E. Di Nitto, R. Mirandola, S. Raffa "Towards GEEZMO: hiGh-frEquency Zest and Mood-pOlling for Proactive Software Development Problem-Solving." *ESEC/FSE 7th Workshop on Social Software Engineering, ACM (SSE)* 2015, pp.9-16
[doi: <http://dx.doi.org/10.1145/2804381.2804383>]
- NC.11. I. Bosnic, F. Ciccozzi, I. Cavrak, E. Di Nitto, J. Feljan, R. Mirandola "Introducing SCRUM into a Distributed Software Development Course." *ECSA Workshop on Enhancing Software Engineering Education, ACM (WESEE)* 2015, pp.34:1-34:8
[doi: <http://dx.doi.org/110.1145/2797433.2797469>]
- NC.12. C. Bartolini, A. Bertolino, A. Ciancone G. De Angelis, R. Mirandola "Non-Functional Analysis of Service Choreographies" *ICSE Workshop on Principles of Engineering Service Oriented Systems (PESOS)* 2012, pp.75-84
[doi: <http://dx.doi.org/10.1109/PESOS.2012.6225947>]

- NC.13. M. Marzolla, M., Mirandola, R. "Performance Aware Reconfiguration of Software Systems" *Proc. of the 7th European workshop on Performance Engineering (EPEW)* 2010, LNCS 6342, pp. 51-66
[doi: http://dx.doi.org/10.1007/978-3-642-15784-4_4]
- NC.14. D. Perez-Palacin, R. Mirandola, J. Merseguer, V. Grassi "QoS-Based Model Driven Assessment of Adaptive Reactive Systems" *IEEE, Third International Conference on Software Testing, Verification, and Validation Workshops Proceedings (ICST workshop)* 2010, pp. 299 - 308
[doi: <http://dx.doi.org/10.1109/ICSTW.2010.20>]
- NC.15. Ardagna, R. Mirandola, M. Trubian, L. Zhang "Quality at runtime: management and monitoring Run-time resource management in SOA virtualized environments" *ACM Proceedings of the 1st international workshop on Quality of service-oriented software systems* 2009, pp. 39-46
[doi: <http://dx.doi.org/10.1145/1596473.1596484>]
- NC.16. E. Di Nitto, D. Dubois, R. Mirandola "On exploiting decentralized bio-inspired self-organization algorithms to develop real systems" *ICSE Workshop on Software Engineering for Adaptive and Self-Managing Systems (SEAMS)* 2009, pp. 68-75
[doi: <http://doi.ieeecomputersociety.org/10.1109/SEAMS.2009.5069075>]
- NC.17. S. Bindelli, E. Di Nitto, R. Mirandola, R. Tedesco "Building autonomic components: The SelfLets approach" *23rd IEEE/ACM International Conference on Automated Software Engineering - Workshop Proceedings (ASE Workshops)* 2008, pp. 17-24
[doi: <http://dx.doi.org/10.1109/ASEW.2008.4686289>]
- NC.18. V. Cardellini, E. Casalicchio, V. Grassi, R. Mirandola "A Framework for Optimal Service Selection in Broker-Based Architectures with Multiple QoS Classes" *Proceedings of the 2006 IEEE Services Computing Workshops (SCW Workshops)* 2006, pp. 105-112
[doi: <http://doi.ieeecomputersociety.org/10.1109/SCW.2006.1>]
- NC.19. D. Ardagna, S. Lucchini, R. Mirandola, B. Pernici "Web Services Composition in Autonomic Grid Environments" *Business Process Management Workshops* 2006, LNCS 4103 Springer, pp. 375-386
[doi: http://dx.doi.org/10.1007/11914952_16]
- NC.20. A. Sabetta, D. C. Petriu, V. Grassi, R. Mirandola "Abstraction-raising Transformation for Generating Analysis Models" *Proc. of MODELS'2005 Satellite Events* 2005, LNCS 3844 Springer, pp. 217-226
[doi: http://dx.doi.org/10.1007/11663430_23]
- NC.21. Iazeolla G., Mirandola R., D'ambrogio A. "Collaborative IV&V by SPEED a Tool-kit for the Performance IV&V of Critical Software" *Proceedings of IEEE International workshop on enabling technologies: infrastructure for collaborative enterprises (WET-ICE)* IEEE 1995, pp. 221-230
- NC.22. V. Grassi, R. Mirandola "A Model-driven Approach to Predictive Non Functional Analysis of Component-based Systems" *Proceedings of Workshop "Models for Non-functional Aspects of Component-Based Software" at UML 2004 conference* Technical report at TU Dresden (ISSN 1430-211X)
- NC.23. Bertolino A., Mirandola R. "Towards component-based software performance engineering" *6th ICSE Workshop on Component-Based Software Engineering* online proceedings at: <http://www.csse.monash.edu.au/~hws/cgi-bin/CBSE6/Proceedings/proceedings.cgi>
- NC.24. Bertolino A., Lombardi G., Marchetti E., Mirandola R. "Performance Analysis of the Rational Unified Process Product" *Proceedings of 12-th International Workshop of Software Measurement (IWSM)* online proceedings at: <http://www.dasma.org/contray/media/Literatur/iwsm-inhalt.pdf>

ACADEMIC BOOKS

- BK.1. A. Rausch, R. Reussner, R. Mirandola, F/ Plasil (Eds.), "The Common Component Modeling Example: Comparing Software Component Models," *Lecture Notes on Computer Science, Springer*, LNCS 5153, 2008. (ISBN 978-3-540-85288-9)
- BK.2. R. Mirandola, I. Gorton, C. Hofmeister (Eds), "Architectures for Adaptive Software Systems, 5th International Conference on the Quality of Software Architectures, QoSA 2009" *Lecture Notes on Computer Science, Springer*, LNCS 5581, 2009. (ISBN: 978-3-642-02350-7)