luigicerulo
curriculum vitæ et studiorum

info
Luigi Cerulo
born on 25 February 1973 in Ravensburg (Germany).

Currently he is Associate Professor in Computer Science at University of Sannio, Department of Science and Tecnology, Benevento (Italy).

contacts
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82100 Benevento (Italy)

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foreing languages
Italian (mother language)
English (fluent)
German (basic)

education

July 2006	**PhD in Software Engineering**	University of Sannio

Thesis title: *On the Use of Process Trails to Understand Software Development*. The thesis, supervised by Prof. Gerardo Canfora, introduces a number of methods to analyze empirically the maintenance and evolution of software systems.

April 2001	**Master of Science in Computer Engineering (Laurea Degree)**	University of Sannio

Thesis title: *An information retrieval method based on fuzzy logic*. The thesis, supervised by Prof. Gerardo Canfora, introduces a novel information retrieval method based on fuzzy logic.

current and past positions

from 2015	**Associate Professor**	University of Sannio

Associate Professor in Computer Science at Univeristy of Sannio, Department of Science and Technology.

2009 – 2015	**Assistant Professor**	University of Sannio

Assistant Professor in Computer Science at Univeristy of Sannio, Department of Science and Technology.

from 2009	**Adjunct Researcher**	Biogem

Adjunct Researcher at the Bioinformatics Laboratory of Biogem – Research Institute on Biotechnology and Molecular Genetics "Gaetano Salvatore", Ariano Irpino (AV), Italy.

2006 – 2009	**Postdoc in Computer Science**	University of Sannio

Posdoc at University of Sannio, RCOST – Research Centre on Software Technology.

2003 – 2006	**PhD in Software Engineering**	University of Sannio

PhD student at University of Sannio, Department of Engineering.

2001 – 2003	**Research assistant**	University of Sannio

Research assistant at University of Sannio, Department of Engineering.

research

The research activity of Luigi Cerulo started in the field of Software Engineering where he obtained results in the areas of Software Maintenance and Evolution, Empirical Software Engineering, and Mining of Software Repositories.

The discipline of Software Maintenance and Evolution aims at understanding how software systems are changed by developers to accomplish new feature requests and bug fixes. The emerging area of *Mining of Software Repositories* introduced new opportunities to study the evolution of software systems through the analysis of *Software Repositories*. Software repositories collect huge amount of data related to software changes and bug issues resolutions (eg. CVS, Subversion, GIT, Bugzilla). The availability of such a massive quantity of data allows researchers to induce new hypothesis and theories from data.[1] The analysis of such data constitutes a complementary approach with respect to static and dynamic analysis traditional adopted by the research community. In such a context Luigi Cerulo introduced a series of approaches to suggest which part of a software system needs to be fixed[2] and who is the best developer that can accomplish such a task.[3] Both approaches has been highly cited by the research community.

In 2005 Luigi Cerulo developed an algorithm to detect changed source code lines, an extension of the ordinary Unix diff algorithm. It is based on text similarity at different level of granularity. The algorithm has been used in many empirical studies on the evolution of software clones, design patterns, and crosscutting concerns. The publication that introduce such an approach received the 'best paper' award from the Working Conference on Mining Software Repository in May 2007.[4] The tool implementing the algorithm is available at: *http://sourceforge.net/projects/ldiff/*, and is currently adopted to track the evolution of source code in different contexts.[5] With others, Luigi Cerulo empirically observed the behavior of various software entities, such as software clones where he showed that in some circumstances they do not constitute a problem for software quality.[6]

The same analysis methods has been applied to other software entities, such as design patterns,[7] software vulnerabilities,[8] software bug fixes,[9] and software entropy.[10] Such studies empirically confirmed various hypothesis supposed previously by the research community.

From 2008 Luigi Cerulo turned to Bioinformatics and currently he is member of the Bioinformatics research groups of University of Sannio (`http://www.bioinformatics-sannio.org`). His research areas are: reverse engineering of biological network, system biology and identification of mutations and copy numbers.[11] Approach based on supervised learning has been

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[1]G. Canfora, M. Di Penta, L. Cerulo. *Achievements and challenges in software reverse engineering*. Communications of the ACM 54(4) (2011)

[2]G. Canfora, L. Cerulo. *Impact analysis by mining software and change request repositories*. In Proceedings of METRICS 2005

[3]G. Canfora, L. Cerulo. *Supporting change request assignment in open source development*. In Proceedings of SAC 2006

[4]G. Canfora, L. Cerulo, M. Di Penta. *Identifying changed source code lines from version repositories*. In Proceedings of MSR 2007.

[5]G. Canfora, L. Cerulo, M. Di Penta. *Tracking your changes: A language-independent approach*. IEEE Software 26(1) 2009

[6]S. Thummalapenta, L. Cerulo, L. Aversano, M. Di Penta. *An empirical study on the maintenance of source code clones*. Empirical Software Engineering 15(1) 2010

[7]L. Aversano, G. Canfora, L. Cerulo, C. Del Grosso, M. Di Penta. *An empirical study on the evolution of design patterns*. In Proceedings of ESEC/FSE 2007

[8]M. Di Penta, L. Cerulo, L. Aversano. *The life and death of statically detected vulnerabilities: An empirical study*. Information and Software Technology 51(10) 2009

[9]G. Canfora, M. Ceccarelli, L. Cerulo, M. Di Penta. *Using multivariate time series and association rules to detect logical change coupling: An empirical study*. In Proceedings of ICSM 2010

[10]G. Canfora, L. Cerulo, M. Cimitile, M. Di Penta. *How changes affect software entropy: An empirical study*. Empirical Software Engineering 19(1) 2014

[11]S. Morganella, L. Cerulo, G. Viglietto, M. Ceccarelli. *VEGA: Variational segmentation for copy number detection* Bioinformatics 26(24) 2010

introduced and evaluated.[12],[13] Such algorithms have been applied in the context of pluripotent stem cells to identify a self renewal gene signature.[14]

With others he developed and algorithm based on formal methods for the reconstruction of gene regulatory networks from time series[15] and recently he developed an algorithm to identify coding language island in free text by means of Hidden Markov models.[16]

In the past Luigi Cerulo worked also on decision based systems, information retrieval, and information extraction.

awards

2010	**Best paper award**	International Conference of Software Maintenance 2010
	Best paper award obtained for the paper "Using multivariate time series and association rules to detect logical change coupling: An empirical study" presented at the conference ICSM 2010.	
2007	**Best paper award**	Working Conference on Mining Software Repository 2007
	Best paper award obtained for the paper "Identifying Changed Source Code Lines from Version Repositories" presented at the conference MSR 2007.	

[12]L. Cerulo, C. Elkan, M. Ceccarelli. *Learning gene regulatory networks from only positive and unlabeled data*. BMC Bioinformatics 11 2010

[13]L. Cerulo, V. Paduano, P. Zoppoli, M. Ceccarelli. *A negative selection heuristic to predict new transcriptional targets*. BMC Bioinformatics 14(SUPPL1) 2013

[14]L. Cerulo *et al.*. *Identification of a novel gene signature of ES cells self-renewal fluctuation through system-wide analysis*. PLoS ONE 9(1) 2014

[15]M. Ceccarelli, L. Cerulo, A. Santone. *De novo reconstruction of gene regulatory networks from time series data, an approach based on formal methods*. Methods 69(3) 2014

[16]L. Cerulo, M. Di Penta, A. Bacchelli, M. Ceccarelli, G. Canfora. *IRISH: A Hidden Markov Model to Detect Coded Information Islands in Free Text*. Science of Computer Programming 2014

scientific experience

Scientific societies

- ACM – Association for Computing Machinery (from 2003).
- SIPTA – Society for Imprecise Probability Theories and Applications (from 2004).
- IEEE Computer Society (from 2008)

Program committee

- IWPSE 2007 (9th Int. Workshop on Principles of Software Evolution).
- WCRE 2008 (15th Working Conference on Reverse Engineering).
- CSMR 2008 (15th Conference on Software Maintenance and Reengineering).
- SCAM 2010 (10th Working Conference on Source Code Analysis and Manipulation).
- SCAM 2012 (12th Working Conference on Source Code Analysis and Manipulation).
- SCAM 2013 (13th Working Conference on Source Code Analysis and Manipulation).
- SCAM 2014 (14th Working Conference on Source Code Analysis and Manipulation).
- SCAM 2015 (15th Working Conference on Source Code Analysis and Manipulation).

Referee

- IEEE Transactions on Software Engineering.
- Journal of Soft Computing.
- Journal of Software Maintenance and Evolution.
- Journal of Automated Software Engineering.
- Software Quality Journal.
- Journal of System and Software.
- Empirical Software Engineering.
- IST Information and Software Technology.
- Network Modeling Analysis in Health Informatics and Bioinformatics.
- Bioinformatics.
- BMC Bioinformatics.
- Methods.

Editorial board

- Scientific World Journal (Bioinformatics subject area), Hindawi Publishing Corporation.
- Advances in Biology (Bioinformatics subject area), Hindawi Publishing Corporation.
- Asian Journal of Computer Science, Hindawi Publishing Corporation.

research projects

2015–2016 **Scientific coordinator** Regione Campania – Assessorato alla Ricerca (Legge 5)
Scientific coordinator of a research project funded by the Regione Campania (Legge 5).
Title: "Metodi e strumenti per l'integrazione di dati e conoscenze nella biologia dei sistemi"
Funds: 12,500 Euro
Partners: University of Sannio, Biogem Research Institute on Biotechnology and Molecular Genetics.

2013–2017 **Scientific coordinator** MiUR (FIRB 2012)
Scientific coordinator of a research project funded by the national competitive program FIRB 2012 Ministero dell'Istruzione dell'Università e della Ricerca (FIRB2012-RBFR12QW4I)
Title: "Non-Coding RNA Explosion: Novel Implications in Neurotrophin Biology"
Funds: 94,600 Euro (total project 700,000 Euro)
Partners: Stazione Zoologica A. Dohrn (leader), University of Napoli "Federico II", University of Roma "La Sapienza", University of Sannio

2008–2010 **Scientific collaborator** MiUR (PRIN2008)
Scientific collaborator of a research project funded by the national competitive program PRIN 2008 dal Ministero dell'Istruzione dell'Università e della Ricerca (PRIN2008-20085CH22F)
Title: "Determinanti clinici, genetici e molecolari del danno d'organo nell'ipertensione arteriosa: Efficacia di un approccio statistico di raggruppamenti utilizzando il database CampaniaSalute"
Funds: 50,000 Euro (total project 226,500 Euro)
Partners: University of Napoli "Federico II" (leader), University of Sannio

2006–2008 **Scientific collaborator** MiUR (PRIN 2006)
Scientific collaborator of a research project funded by the national competitive program PRIN 2008 dal Ministero dell'Istruzione dell'Università e della Ricerca (PRIN2008-2006098097)
Title: "Metodi e strumenti per la migrazione di sistemi software verso architetture web e orientate ai servizi: valutazione sperimentale, usabilità e trasferimento tecnologico"
Funds: 49,830 Euro (total project 190,000 Euro)
Partners: University of Salerno (leader), University of Sannio, University of Bari "A. Moro"

2007–2009 **Scientific collaborator** European community
Scientific collaborator of a research project funded by the European community Qualipso (Quality Platform for Open Source Software). The project aims at making a major contribution to the state of the art and practice of Open Source Software. The goal of the project is to define and implement technologies, procedures and policies to leverage the Open Source Software development current practices to sound and well recognised and established industrial operations.

2001–2004 **Scientific collaborator** European community
Scientific collaborator of a research project funded by the European community EUREKA–2235 – Information and Knowledge Fusion. The project aims at developing a Distributed Infrastructure and Services System with appropriate toolkits and techniques for Information Discovery in a multi-source distributed environment and Knowledge Extraction, Fusion and Representation in order to provide advanced applications for different domains in the area of 'Knowledge Management'.

institutional activities

Member of the following department committees:

- Student first advise committee.
- Thesis assignment committee.
- Research assessment committee.

From 2009 to 2013 he was member of the Doctoral Committee of the PhD program in Bioinformatics at University of Sannio.

teaching experience

university courses

from 2014	**Bioinformatics** 6 European University Credits	University of Sannio
from 2011	**Bioinformatics with Lab** 6 European University Credits	University of Sannio
from 2007	**Informatics** 6 European University Credits	University of Sannio

other courses and seminars

| 2015 | **Get the best from your sequence** | Facultate de Medicina de Botucatu, UNESP |

Course on *Sequence analysis in R* to PhD and graduate students of Pathophysiology Medical School (UNESP) in Botucatu, San Paulo, Brazil.

| 2014 | **Model Based Testing** | University of Napoli "Federico II" |

Course on *Model Based Testing* to post-graduate students organised by the department of electrical enegineering of University of Napoli "Federico II"

| 2011–2013 | **Perl/Bioperl** | University of Sannio |

Course on *Perl e Bioperl* to PhD students in Bioinformatics

| 2006–2010 | **Working with Subversion and Bugzilla** | University of Sannio |

Course on *Working with Subversion and Bugzilla* to post-graduate students of the University of Sannio

| 2002–2006 | **XML Technologies** | University of Sannio |

Course on *XML Technologies* to post-graduate students of the University of Sannio

advisor activities

postdocs

2013–2014, Zia Ur Rehman, postdoc at Department of Science and Technology of University of Sannio. His activity was related to a research project aiming at developing new machine learning approaches in the prediction of long non coding RNA.

PhD students

2013–2016, Giovanna Maria Ventola, PhD student in Bioinformatics at University of Sannio. Thesis title: "Approaches and tools to indentify the functional role of non coding sequences".

2010–2013, Sandro Morganella, PhD student in Bioinformatics at University of Sannio. Thesis title: "Downstream Analysis of Microarray DNA Copy Number Data". Now he is a postdoc in the Birney research group at EMBL-EBI, Wellcome Trust Genome Campus, Hinxton, Cambridgeshire, UK.

Master thesis students

From 2009 Luigi Cerulo supervised over 15 Master Degree thesis in Software engineering and Bioinformatics.

bibliometric indexes

publications

journal

Cancer-related CD15/FUT4 overexpression decreases benefit to agents targeting EGFR or VEGF acting as a novel RAF-MEK-ERK kinase downstream regulator in metastatic colorectal cancer

Guido Giordano, Antonio Febbraro, Eugenio Tomaselli, Maria Lucia Sarnicola, Pietro Parcesepe, Domenico Parente, Nicola Forte, Alessio Fabozzi, Andrea Remo, Andrea Bonetti, Erminia Manfrin, Somayehsadat Ghasemi, Michele Ceccarelli, **L. Cerulo**, Flavia Bazzoni, Massimo Pancione

Journal of Experimental & Clinical Cancer Research *34.1 (2015) pp. 1–11. (IF 4.45,5-Year IF 3.86)*

Systems Biology Analysis Reveals NFAT5 as a novel biomarker and master regulator of Inflammatory Breast Cancer

A. Remo, I. Simeone, M. Pancione, P. Parcepese, P. Finetti, **L. Cerulo**, H. Bensmail, D. Birnbaum, V. Colantuoni, F. Bonetti, F. Bertucci, E. Manfrin, M. Ceccarelli

Journal of Translational Medicine *(2015). BioMed Central, (IF 3.99,5-Year IF 3.86)*

IRISH: A Hidden Markov Model to Detect Coded Information Islands in Free Text

L. Cerulo, M. Di Penta, A. Bacchelli, M. Ceccarelli, G. Canfora

Science of Computer Programming *(2015). Elsevier, (IF 0.548,5-Year IF 0.810)*

De novo reconstruction of gene regulatory networks from time series data, an approach based on formal methods

M. Ceccarelli, **L. Cerulo**, A. Santone

Methods *69.3 (2014) pp. 1–38. Elsevier, (IF 3.221, 5-Year IF 4.197)*

How changes affect software entropy: An empirical study

G. Canfora, **L. Cerulo**, M. Cimitile, M. Di Penta

Empirical Software Engineering *19.1 (2014) pp. 1–38. Springer Verlag, (IF 1.64, 5-Year IF 1.76)*

Identification of a novel gene signature of ES cells self-renewal fluctuation through system-wide analysis

L. Cerulo, D. Tagliaferri, P. Marotta, P. Zoppoli, F. Russo, C. Mazio, M. DeFelice, M. Ceccarelli, G. Falco

PLoS ONE *9.1 (2014). Public Library of Science, (IF 3.73, 5-Year IF 4.24)*

Ensemble of Gene Signatures Identifies Novel Biomarkers in Colorectal Cancer Activated through PPARγ and TNFα Signaling

S.M. Pagnotta, C. Laudanna, M. Pancione, L. Sabatino, C. Votino, A. Remo, **L. Cerulo**, P. Zoppoli, E. Manfrin, V. Colantuoni, M. Ceccarelli

PLoS ONE *8.8 (2013). Public Library of Science, (IF 3.73, 5-Year IF 4.24)*

An approach to identify miRNA associated with cancer altered pathways

G.M. Ventola, A. Colaprico, F. D'Angelo, V. Colantuoni, G. Viglietto, **L. Cerulo**, M. Ceccarelli

Lecture Notes in Computer Science (subseries in Artificial Intelligence and Bioinformatics) *8158 LNCS (2013) pp. 399–408. Springer Verlag*

A negative selection heuristic to predict new transcriptional targets

L. Cerulo, V. Paduano, P. Zoppoli, M. Ceccarelli

BMC Bioinformatics 14.SUPPL.1 (2013). BioMed Central, (IF 2.67, 5-Year IF 3.51)

Labeling negative examples in supervised learning of new gene regulatory connections

L. Cerulo, V. Paduano, P. Zoppoli, M. Ceccarelli

Lecture Notes in Computer Science (subseries in Artificial Intelligence and Bioinformatics) 6685 LNBI (2011) pp. 159–173. Springer Verlag

Achievements and challenges in software reverse engineering

G. Canfora, M.D. Penta, **L. Cerulo**,

Communications of the ACM 54.4 (2011) pp. 142–151. Association for Computing Machinery, (IF 2.863, 5-Year IF 2.56)

VEGA: Variational segmentation for copy number detection

S. Morganella, **L. Cerulo**, G. Viglietto, M. Ceccarelli

Bioinformatics 26.24 (2010) pp. 3020–3027. Oxford University Press, (IF 4.621, 5-Year IF 6.968)

Learning gene regulatory networks from only positive and unlabeled data

L. Cerulo, C. Elkan, M. Ceccarelli

BMC Bioinformatics 11 (2010). BioMed Central, (IF 2.67, 5-Year IF 3.51)

An empirical study on the maintenance of source code clones

S. Thummalapenta, **L. Cerulo**, L. Aversano, M. Di Penta

Empirical Software Engineering 15.1 (2010) pp. 1–34. Springer Verlag, (IF 1.64, 5-Year IF 1.76)

Relationship between design patterns defects and crosscutting concern scattering degree: An empirical study

L. Aversano, **L. Cerulo**, M. Di Penta

IET Software 3.5 (2009) pp. 395–409. (IF 0.536, 5-Year IF 0.68)

The life and death of statically detected vulnerabilities: An empirical study

M. Di Penta, **L. Cerulo**, L. Aversano

Information and Software Technology 51.10 (2009) pp. 1469–1484. Elsevier, (IF 1.328, 5-Year IF 1.583)

Tracking your changes: A language-independent approach

G. Canfora, **L. Cerulo**, M. Di Penta

IEEE Software 26.1 (2009) pp. 50–57. IEEE Computer Society, (IF 1.23, 5-Year IF 1.58)

conference and workshop

Enhancing Online Discussion Forums with a Topic-Driven Navigational Paradigm: A Plugin for the Moodle Learning Management System

D. Distante, **L. Cerulo**, C. A. Visaggio, M. Leone

In Proceedings of the 6th International Conference on Knowledge Discovery and Information Retrieval, 2014, Rome, Italy, SCITEPRESS Digital Library

Infer gene regulatory networks from time series data with formal methods

M. Ceccarelli, **L. Cerulo**, A. Santone

In Proceedings of the International Conference on Bioinformatics and Biomedicine, BIBM, 2013, Shanghai, China, IEEE Computer Society

(Acceptance rate: 19%)

A hidden markov model to detect coded information islands in free text

L. Cerulo, M. Ceccarelli, M. Di Penta, G. Canfora

In Proceedings of the 13th International Working Conference on Source Code Analysis and Manipulation, SCAM, 2013, Eindhoven, The Netherlands, IEEE Computer Society

Topic-driven semi-automatic reorganization of online discussion forums: A case study in an e-learning context

L. Cerulo, D. Distante

In Proceedings of the Global Engineering Education Conference, EDUCON, 2013, Berlin, Germany, IEEE Computer Society

How long does a bug survive? An empirical study

G. Canfora, M. Ceccarelli, **L. Cerulo**, M. Di Penta

In Proceedings of the *18th International Working Conference on Reverse Engineering, WCRE*, 2011, Limerick, Ireland, IEEE Computer Society

(Acceptance rate: 26%)

Social interactions around cross-system bug fixings: The case of FreeBSD and OpenBSD

G. Canfora, **L. Cerulo**, M. Cimitile, M. Di Penta

In Proceedings of the *8th Working Conference on Mining Software Repositories, MSR*, 2011, Honolulu, Hawaii (USA), ACM

(Acceptance rate: 32.8%)

Using multivariate time series and association rules to detect logical change coupling: An empirical study

G. Canfora, M. Ceccarelli, **L. Cerulo**, M. Di Penta

In Proceedings of the *26th International Conference on Software Maintenance, ICSM*, 2010, Timisoara, Romania, IEEE Computer Society

(Acceptance rate: 26%)

An eclectic approach for change impact analysis

M. Ceccarelli, **L. Cerulo**, G. Canfora, M. Di Penta

In Proceedings of the *32nd ACM/IEEE International Conference on Software Engineering (NIER track)*, 2010, Cape Town, South Africa, IEEE Computer Society

An exploratory study of factors influencing change entropy

G. Canfora, **L. Cerulo**, M. Di Penta, F. Pacilio

In Proceedings of the *18th International Conference on Program Comprehension, ICPC*, 2010, Braga, Portugal, IEEE Computer Society

Selection of negative examples in learning gene regulatory networks

M. Ceccarelli, **L. Cerulo**,

In Proceedings of the *International Conference on Bioinformatics and Biomedicine Workshops, BIBMW*, 2009, Washington, USA, IEEE Computer Society

Ldiff: An enhanced line differencing tool

G. Canfora, **L. Cerulo**, M. Di Penta

In Proceedings of the *31st International Conference on Software Engineering (Tool demo)*, 2009, Vancouver, Canada, IEEE Computer Society

An empirical study of the relationships between design pattern roles and class change proneness

M. Di Penta, **L. Cerulo**, Y.-G. Guéhéneuc, G. Antoniol

In Proceedings of the *29th International Conference on Software Maintenance, ICSM*, 2008, Beijing, China, IEEE Computer Society

(Acceptance rate: 26%)

Mining candidate web services from legacy code

L. Aversano, **L. Cerulo**, C. Palumbo

In Proceedings of the *10th International Symposium on Web Site Evolution, WSE*, 2008, Beijing, China, IEEE Computer Society

The evolution and decay of statically detected source code vulnerabilities

M. Di Penta, **L. Cerulo**, L. Aversano

In Proceedings of the *8th International Working Conference on Source Code Analysis and Manipulation, SCAM*, 2008, Beijing, China, IEEE Computer Society

(Acceptance rate: 38%)

An empirical study on the evolution of design patterns

L. Aversano, G. Canfora, **L. Cerulo**, C. Del Grosso, M. Di Penta

In Proceedings of the *6th Joint Meeting of the European Software Engineering Conference and the ACM SIGSOFT Symposium on the Foundations of Software Engineering, ESEC/FSE*, 2007, Dubrovnik, Croatia, ACM

(Acceptance rate: 17%)

Relating the evolution of design patterns and crosscutting concerns

L. Aversano, **L. Cerulo**, M. Di Penta

In Proceedings of the *7th International Working Conference on Source Code Analysis and Manipulation, SCAM*, 2007, Paris, France, IEEE Computer Society

(Acceptance rate: 26%)

Identifying changed source code lines from version repositories

G. Canfora, **L. Cerulo**, M. Di Penta
In Proceedings of the *4th International Workshop on Mining Software Repositories, MSR*, 2007, Shanghai, China,
IEEE Computer Society

(Acceptance rate: 38%)

How clones are maintained: An empirical study

L. Aversano, **L. Cerulo**, M. Di Penta
In Proceedings of the *11th European Conference on Software Maintenance and Reengineering, CSMR*, 2007,
Amsterdam, The Netherlands, IEEE Computer Society

(Acceptance rate: 31%)

Learning from bug-introducing changes to prevent fault prone code

L. Aversano, **L. Cerulo**, C. Del Grosso
In Proceedings of the *9th International Workshop on Principles of Software Evolution, IWPSE*, 2007, Dubrovnik,
Croatia, ACM

(Acceptance rate: 33%)

Jimpa: An eclipse plug-in for impact analysis

G. Canfora, **L. Cerulo**,
In Proceedings of the *10th European Conference on Software Maintenance and Reengineering, CSMR*, 2006, Bari,
Italy, IEEE Computer Society

Fine grained indexing of software repositories to support impact analysis

G. Canfora, **L. Cerulo**,
In Proceedings of the *3rd International Workshop on Mining Software Repositories, MSR*, 2006, Shanghai, China,
ACM

(Acceptance rate: 30%)

Where is bug resolution knowledge stored?

G. Canfora, **L. Cerulo**,
In Proceedings of the *3rd International Workshop on Mining Software Repositories, MSR*, 2006, Shanghai, China,
ACM

(Acceptance rate: 30%)

On the use of line co-change for identifying crosscutting concern code

G. Canfora, **L. Cerulo**, M. Di Penta
In Proceedings of the *22nd International Conference on Software Maintenance, ICSM*, 2006, Philadelphia, Penn-
sylvania, USA, IEEE Computer Society

(Acceptance rate: 28%)

Supporting change request assignment in open source development

G. Canfora, **L. Cerulo**,
In Proceedings of the *Proceedings of the ACM Symposium on Applied Computing, SAC*, 2006, Dijon, France, ACM

(Acceptance rate: 33%)

Impact analysis by mining software and change request repositories

G. Canfora, **L. Cerulo**,
In Proceedings of the *11th International Software Metrics Symposium, METRICS*, 2005, Como, Italy, IEEE Com-
puter Society

(Acceptance rate: 44%)

Measuring XML document similarity: A case study for evaluating information extraction systems

G. Canfora, **L. Cerulo**, R. Scognamiglio
In Proceedings of the *10th International Software Metrics Symposium, METRICS*, 2004, Chicago, IL, USA, IEEE
Computer Society

(Acceptance rate: 30%)

Supporting software evolution by using fuzzy logic

L. Cerulo, R. Esposito, M. Tortorella, L. Troiano
In Proceedings of the *7th International Workshop on Principles of Software Evolution, IWPSE*, 2004, Kyoto, Japan,
IEEE Computer Society

(Acceptance rate: 30%)

An experience of fuzzy linear regression applied to effort estimation

G. Canfora, **L. Cerulo**, L. Troiano
In Proceedings of the *16th International Conference on Software Engineering and Knowledge Engineering, SEKE*,
2004, Banff, Canada, KSI Press

(Acceptance rate: 38%)

A visual approach to define XML to FO transformations

G. Canfora, **L. Cerulo**,

Benevento, April 2, 2016