CURRICULUM VITAE OF LUCA ROVERSI

CONTENTS

1. Curriculum studiorum 1
2. Professional status 1
3. Services for Università degli Studi di Torino 2
4. Teaching activity at University 2
4.1. Courses 2
4.2. Tutoring activities 3
5. Divulgation 3
6. Other teaching activities 4
6.1. Higher schools 4
6.2. Refresher course 4
7. Scientific activity 4
7.1. Services 4
7.2. Direction of young researchers 5
7.3. Scientific communications 5
7.4. Membership to international projects 5
7.5. Membership to national projects 5
7.6. Post-Doctoral periods 5
7.7. Participation to national and international schools 6
7.8. Revision activities 6
8. Bibliography 6
Theoretical subjects — International journals 6
Theoretical subjects — International workshops and National conferences 6
Theoretical subjects — International conferences 7
Theoretical subjects — Guest editor 7
Theoretical subjects — Doctoral thesis 7
Applicative subjects 7
9. Assessments 8

Luca Roversi was born on January 22nd,1966.

1. CURRICULUM STUDIORUM

10/11/95: Doctorate in Informatica, Università degli Studi di Pisa. Dissertation: "SEMANTICS OF LAMBDA CALCULI DESIGNED FROM INTUITIONISTIC LINEAR LOGIC", supervisor Prof.ssa Simona Ronchi Della Rocca. International referees: Prof. Martin Hyland, Cambridge — UK, Prof. John Mitchell, Stanford — USA.

1/03/90: Laurea (quadriennale) in Scienze dell'Informazione: "PROBLEMA DELL'INFERENZA AUTOMATICA DI TIPI POLIMORFI NEL λ-CALCOLO", suprevisor Prof.ssa Simona Ronchi Della Rocca, Dipartimento di Scienze dell'informazione — Università degli Studi di Torino.

2. PROFESSIONAL STATUS

1st November 02: Associate professor, Università degli studi di Torino.

16/07/99 — 30/10/02: Researcher, Università degli studi di Torino.

Date: August 20, 2020.

3. Services for Università degli Studi di Torino

2015 — 2018: Elected member of the Giunta del Dipartimento di Informatica di Torino.
2013 — 2015: Elected member of the Commissione Orientamento del Consiglio di Dipartimento del Dipartimento di Informatica di Torino.
02/03 — 09/10: Rappresentative of Consiglio di Facoltà di Scienze Politiche in Consiglio di gestione CISI — Università degli Studi di Torino.
29/11/06 — 6/12/06: Retraining stage, 40 hours for the personnel of Università degli Studi di Torino.
04 — 06: Membership of Commissione servizi informatizzati di Facoltà, Facoltà di Scienze Politiche — Università degli Studi di Torino.
02 — 12: Faculty reference for the European Computer Driving License (ECDL), Facoltà di Scienze Politiche — Università degli Studi di Torino.

4. Teaching activity at University

4.1. Courses.

a.y. 19/20 — today: "Algortimi e Complessità", 48 hours at Laurea magistrale in Informtaica at the Dipartimento d'Informatica — Torino.
a.y. 19/20 — today: "Programmazione I". 48+30 hours for courses at the Dipartimento d'Informatica — Torino.
February 16: Introduzione ai "Sistemi informativi informatizzati e sistemi aziendali". 7 hours at the "SAA – School of Management" — Torino.
a.y. 14/15 — 18/19: "Programmazione I". 60+30+30 hours for courses at the Dipartimento d'Informatica — Torino.
March 2015: "Taming Complexity through Abstraction", a 2 hours lesson at the "Scuola di Studi Superiori" — Torino.
a.y. 13/14 — today :
- "Programmazione I". 60+30 hours for courses at the Dipartimento d'Informatica — Torino.
- "Informatica e Sistemi informativi". 36 hours for courses at the departments "Culture, Politica e Società" and "Economia e Statistica 'Cognetti de Martiis' " — Torino.

"Informatica e Sistemi informativi". 36 hours at Facoltà di Scienze Politiche — Torino.
a.y. 12/13: "Informatica e Sistemi informativi". 36 hours at Facoltà di Scienze Politiche — Torino.
a.y. 11/12: "Algoritmi e Complessità". 30 hours at Dipartimento d'Informatica — Torino.
a.y. 10/11 – 12/13: "Informatica". 36 hours at Facoltà di Scienze Politiche — Torino.
a.y. 08/09 — 11/12: "Informatica e Sistemi informativi". 72 hours at Facoltà di Scienze Politiche — Torino.
a.y. 06/07 — 08/09:
- "Sistemi informativi". 60 hours at Facoltà di Scienze Politiche — Torino.
- "Informatica ed entità complesse". 30 hours at Facoltà di Scienze Politiche — Torino.

a.y. 05/06: On sick leave.
a.y. 04/05:
- "Sistemi informativi". 42 hours at Facoltà di Scienze Politiche — Torino.
- "Informatica". 30 hours at Facoltà di Scienze Politiche — Torino.

a.y. 03/04:
- "Informatica avanzata". 42 hours at Facoltà di Scienze Politiche — Torino.
- "Informatica". 30 hours at Facoltà di Scienze Politiche — Torino.

a.y. 02/03 — 07/08: "Informatica di Base/Uso del Calcolatore elettronico". Exams to check skills in the use of Personal computers, configured for standard office activities at Facoltà di Scienze Politiche — Torino.
a.y. 02/03:
- "Informatica avanzata". 42 hours at Facoltà di Scienze Politiche — Torino.
- "Abilità informatiche: applicazioni per il web *publishing*". 15 hours, out of 30, incollaboration with Dott.ssa Claudia Favero, at Facoltà di Scienze Politiche — Torino.
- "Informatica di Base II". 30 hours at Facoltà di Scienze Politiche — Torino.
- "Informatica Applicata — Basi di Dati". 30 hours at "Scienze della Comunicazione", Ivrea — Torino.

a.y. 01/02: "Informatica Applicata — Basi di Dati". 30 hours "Scienze della Comunicazione", Ivrea — Università degli Studi di Torino.
a.y. 00/01:
- "Introduzione agli algoritmi". 16 hours for "Master interfacoltà di I livello in Bioinformatica" — Torino.
- "Esercitazioni di laboratorio". 32 hours for "Programmazione" at Dipartimento d'Informatica — Torino.
- "Esercitazioni di laboratorio". 14 hours for "Basi di Dati I" at Dipartimento d'Informatica — Torino.

a.y. 99/00: "Esercitazioni di laboratorio". 14 hours for "Basi di Dati I" at Dipartimento d'Informatica — Torino.

November 92 — Dicember 92: "SEMANTICA ALGEBRICA OPERAZIONALE DEL PROLOG". 12 hours for "METODI PER IL TRATTAMENTO DELL'INFORMAZIONE" at Dipartimento di Scienze dell'Informazione — Università degli Studi di Pisa.

4.2. **Tutoring activities.**

August 20 – in progress: Master thesis "F* PER PROGRAMMI REVERSIBILI CERTIFICATI (TENTATIVE)". Candidate Darisuh Moshiri, supervisor Luca Roversi.

October 19 – in progress: Master thesis "BERSAGLIO ELETRONICO PER COMPETIZIONI SPORTIVE DI TIRO ACCADEMICO (TENTATIVE)". Candidate Elia Casetta, supervisor Davide Cavagnino, co-supervisor Luca Roversi.

July 20: Bachelor thesis "ANALISI DEI LINGUAGGI REVERSIBILE E UTILIZZO DELLE LISTE IN YAREL". Candidate Pier Paolo Tarasco, supervisor Luca Roversi.

October 19: Bachelor thesis "DA REVERSIBILE A REVERSIBILE: UN COMPILATORE PER UN PROCESSORE REVERSIBILE". Candidate Riccardo Taiello, supervisor Luca Roversi.

October 19: Bachelor thesis "ESTENSIONE DEL LINGUAGGIO REVERSIBILE YAREL AI BOOLEANI". Candidate Riccardo Viola, supervisor Luca Roversi.

July 19: Bachelor thesis "IL PROGETTO YAREL". Candidate Paolo Parker, supervisor Luca Roversi.

March 19: Bachelor thesis "CANTOR PAIRING REVERSIBILE". Candidate Francesco Rossini, supervisor Luca Roversi. Extended abstract awarded with "Undergraduate Gold Medal" at the "ACM Research Student Competition" which took place at the international conference "⟨PROGRAMMING⟩2019".

September 16: Bachelor thesis "VERSO UN LINGUAGGIO DI PROGRAMMAZIONE REVERSIBILE: GRAMMATICA E IDE IN XTEXT". Candidate Dariush Moshiri, supervisor Luca Roversi.

February 15 — May 15: Bachelor thesis "DOCLET PER LA GENERAZIONE DI DOCUMENTAZIONE JAVA, COMPLETA DI SORGENTI UTILIZZABILI". Candidate Boris Vincenzo Tagliarino, supervisor Luca Roversi.

September 12 — April 13: Master thesis "DEEP INFERENCE CON MATITA". Candidate Fabio Filippi, supervisor Luca Roversi.

September 11 — March 13: Master thesis "METODOLOGIE INFORMATICHE PER L'ANALISI DELLE VARIABILI LATENTI". Candidate Karin Pretto, supervisor Luca Roversi, reader Dr. Anna Lo Presti.

June 12 — December 12: Master thesis "REINGEGNERIZZAZIONE DI MODULI DEL DATA WAREHOUSE WHIP". Candidate Renato Beccia, supervisor Dr. Roberto Leombruni, reader Luca Roversi.

February 12 — December 12: Master thesis "UTILIZZO DI METODI DI DATA MINING: UN'APPLICAZIONE NELL'INDUSTRIA AUTOMOBILISTICA". Candidate Massimo Fallocco. supervisor Luca Roversi, readers Dr. Anna Lo Presti, and Dr. Roberto Leombruni.

September 11 — December 11: Master thesis "PROGRAMMARE CON UN LINGUAGGIO FUNZIONALE A COMPLESSITÀ POLINOMIALE". Candidate Rachid Ouchary, supervisor Luca Roversi.

September 10 — November 10: Bachelor thesis "METODI DI VALUTAZIONE E COMPARAZIONE DI CLASSIFICATORI PER IL DATA MINING". Candidate Luigi Pisu, supervisor Luca Roversi.

March 10: Bachelor thesis "?????". Candidate Maurizio Dominici, supervisor Prof.ssa Simona Ronchi Della Rocca, reader Luca Roversi.

March 08: Bachelor thesis "TIPO PRINCIPALE PER UN LAMBDA-CALCOLO POLINOMIALE". Candidate Matteo Manferdini supervisor Prof.ssa Simona Ronchi Della Rocca, and Luca Roversi.

a.y. 03/04: Master thesis "COMUNITÀ PROFESSIONALI IN RETE: COME VALUTARNE L'EFFICACIA E IL R.O.I.". Candidate Giuseppe Morino supervisor Ing. Guglielmo Trentin, reader Luca Roversi.

a.y. 01/02:
- Bachelor thesis "PROGETTO E SVILUPPO DI UN SISTEMA DI SUPPORTO AL PROCESSO DI REVISIONE DI ARTICOLI DESTINATI A CONVEGNI SCIENTIFICI". Candidates Simone Donetti and Luca Vaglio Bianco, supervisor Luca Roversi, reader Dott. Sergio Rabellino.
- Bachelor thesis "PROGETTAZIONE E CREAZIONE DI UN SISTEMA PER IL TRADING DI PRODOTTI DI RISPARMIO GESTITO.". Candidate Krastio Atanassov supervisor Ing. Alberto Giusti, reader Luca Roversi.

a.y. 98/99:
- Bachelor thesis "INTERACTION NETS". Candidate Lorenzo Conte, supervisor Prof.ssa Simona Ronchi Della Rocca, reader Luca Roversi

October 98 — May 99: Memoire de D.E.A. "UNE LOGIQUE PUR LA DETECTION DE CODE MORT", supervisor Luca Roversi, candidate Romain Anne, Université Paris VII — U.F.R de Sciences.

5. DIVULGATION

26/09/07: "L'INFORMATICA COME COLLANTE METODOLOGICO", invited talk at the meeting: "VERSO UNA MULTIMEDIALITÀ SOSTENIBILE — RIPENSARE LE TECNOLOGIE PER LE SCIENZE UMANE", for the twentieth anniversary of CISI.

6. Other teaching activities

6.1. Higher schools.

6/12/95 — 22/12/95: Programming courses at Liceo Scientifico Sperimentale "A. Gramsci" — Ivrea.
1/11/94 — 10/01/95: Programming courses at Liceo Scientifico Sperimentale "A. Gramsci" — Ivrea.

6.2. Refresher course.

18/01/00 — 20/01/00: Participant to the course ECA-UNESCO "Formazione al tutorato di Ricercatori universitari", for researchers, Torino.

7. Scientific activity

7.1. Services.

May 2020 - Premio AILA "Paolo Gentilini": Member of the selection board (Relazione Premio Gentilini 2020).
DICE'18: PC Member of the international workshop *Developments in Implicit Computational Complexity* (DICE'18), ETAPS'18 affiliated, Thessaloniki, Greece – April 14-15, 2018 .
December 2016: Referee of the *PhD dissertation* "A study of normalisation through subatomic logic" at the University of Bath (UK) by Andrea Aler Tubella. Supervisor Alessio Guglielmi.
May 2016: Member of the jury for the assignment of the title "Dottore di Ricerca in INFORMATICA" by the Università di Bologna to Buoncompagni, Cappai, Domeniconi, Giallorenzo, Loreti, Mariani, Martini, Petrelli, Prandi, Rioli, Rocchi. Jury: I. Castellani, L. Roversi and F. Zambonelli.
RAC'16: PC Member of *Workshop on Resource Aware Computing* (RAC'16), April 2nd 2016, Eindhoven, The Netherlands, satellite event of ETAPS 2016.
January 2016:
- Referee of the *Tesi di Dottorato* "On Equivalences, Metrics, and Computational Indistinguishability", by Alberto Cappai at the Università di Bologna. Supervisor Ugo Dal Lago.
- Referee for the funding programme "Bando per la Ricerca di Base 2015", Università di Verona.

FOPARA'15: PC Member of *International Workshop on Foundational and Practical Aspects of Resource Analysis* (FOPARA'15), April 11th 2015, London, U.K., satellite event of ETAPS 2015.
SD'14: PC member of *Structures and Deduction* (SD'14), July 12th 2014, Vienna, Austria.
January 2014: Referee for the Austrian Science Fund - FWF Der Wissenschaftsfonds.
CSL'13: Organizing committee of *Computer Science Logic* (CSL'13), September 2nd – 5th 2013, Torino, Italy.
April 2013:
- Member of the jury for the assignment of the title "*Docteur de l'Ecole Polytechnique*" (*Ecole Polytechnique, 91128 Palaiseau* — France) to N. Guenot. Jury: D. Kesner (*Rapporteur*), R. McKinley, D. Miller, L. Roversi (*Rapporteur*), L. Strassburger (Directeur de thèse), B. Werner.
- Member of the jury assignment of the title "Dottore di Ricerca in INFORMATICA" co-tutored by *Università di Bologna*, and *Universitè Paris VII - Denis Diderot* to M. Puech. Jury: A. Asperti, P. Degano, A. Gangemi, H. Herbelin, and L. Roversi.
- Member of the jury for the assignment of the title "Dottore di Ricerca in INFORMATICA" by Università di Bologna to A. Burattin, L. Possamai, and C. Savojardo. Jury: P. Degano, A. Gangemi, and L. Roversi.
- Member of the jury for the assignment of the title "Dottore di Ricerca in INFORMATICA — *Doctor Europaeus*" by Università di Bologna to A. Adamou, G. Barabucci, and P. Parisen Toldin. Jury: P. Degano, A. Gangemi, and L. Roversi.

DICE'13: PC Member of *International Workshop on Developments in Implicit Computational Complexity* (DICE'13), ETAPS affiliated, March 16th – 17th 2013, Roma.
January 2013: *Rapporteur de la thèse* "Nested deduction in logical foundations for computation", for the assignment of the title *Docteur de l'Ecole Polytechnique* by Nicolas Guenot. *Directeur de thèse* Lutz Strassburger.
December 2012: Referee of the *Tesi di Dottorato* "Implicit Computational Complexity and Probabilistic Classes", by Paolo Parisen Toldin. Supervisor Simone Martini.
2012 - Premio 3+2 AILA: Member of the selection board (Verbale).
2011 - Premio 3+2 AILA: Member of the selection board (Verbale).
LCC'11: PC Member of *International Workshop on Logic and Computational Complexity* (LCC'11), LICS affiliated, June 25th 2011, Toronto.
DICE'11: PC Member of *International Workshop on Developments in Implicit Computational Complexity* (DICE'11), ETAPS affiliated, April 2nd – 3rd 2011, Saarbrücken.
FOPARA'09: PC Member of *International Workshop on Foundational and Practical Aspects of Resource Analysis* (FOPARA'09), November 3rd 2009, Eindhoven, The Netherlands.
2008 — 2013: Member of the Executive board of "Associazione Italiana di Logica e sue Applicazioni" (AILA).

ITRS'02: PC Member of *Second Workshop on Intersection Types and Related Systems* (ITRS'02), July 26th 2002, Copenhagen, Denmark.

7.2. **Direction of young researchers.**

2017 — 2020: Doctoral Thesis: "NON-LAZINESS IN IMPLICIT COMPUTATIONALCOMPLEXITY AND PROBABILISTIC λ-CALCULUS". Scuola di Dottorato in Scienze e Alta Tecnologia, Università degli Studi di Torino. Author Dr. Gianluca Curzi.

2007 — 2010: Doctoral Thesis: "ON THE COMPLEXITY OF STRATIFIED LOGICS". Scuola di Dottorato in Scienze e Alta Tecnologia, Università degli Studi di Torino. Author Dr. Luca Vercelli.

March 2008 — March 2010: Research: "PREVISIONE STATICA SULL'USO DI TEMPO E SPAZIO DEL *software* PER DISPOSITIVI MOBILI ATTRAVERSO METODI LOGICO-STRUTTURALI". Regional law 4/2006 art. 2, "Contenimento del *brain drain*", Regione Piemonte — Italy. Researcher Dr. Marco Gaboardi.

7.3. **Scientific communications.**

03/09/2017: "SUBATOMIC PROOF SYSTEMS, COHERENCE SPACES AND POST'S LATTICE" at the *international workshop* "Trends in Linear Logic and Applications 2017" affiliated with FSCD 2017, Oxford (UK), September 3rd, 2017.

06/09/04 — 07/09/04: Invited talk "LIGHT LANGUAGES AND PRIMITIVE RECURSIVE FUNCTIONS" at the *workshop* "Implicit Computational Complexity and Logic" of the project "ACI Nouvelles interfaces des mathé matiques GEOCAL", Paris-Nord (Villetaneuse).

29/01/03 — 01/02/03: Course "AN INTRODUCTION TO INTUITIONISTIC LIGHT AFFINE LOGIC", 2 hours, for doctoral stdents and researchers, mini doctoral school Chambéry-Torino in *Theoretical Computer Science*, *Centre Langévin du CNRS*, Aussois (73) — France.

25/04/00 — 28/04/00: Course "LIGHT LINEAR LOGIC", 8 hours, for researchers at Mathematischen Institut der Ludwig-Maximilians-Universitat (Münich).

June 99 — July 99: Course "UN MINI CORSO SUL LAMBDA CALCOLO", 15 hours, for doctoral students at Dipartimento di Informatica — Torino.

June 95 — July 95: Course "TEORIA DI BASE DEI DOMINI DI SCOTT", 18 hours, for doctoral students at Dipartimento di Informatica — Torino.

7.4. **Membership to international projects.**

12 — 14: English-italian project "SHARING AND SEQUENTIALITY IN PROOF SYSTEMS WITH LOCALITY" number IE111499, founded by Royal Society, from 29 March 2012 throigh 30 June 2014, principal investigator.

10 — 12: French-italian project "LOGIQUE LINEAIRE ET APPLICATIONS (PICS)", researcher.

10 — 13: French-italian project CRISTAL part of INRIA programme "Equipe associee", researcher.

04 — 06: French-italin project "Rete italo-francese di ricerca in logica e geometria della computazione", researcher

02 — 05: Project IST-2001-33477 "DART" (Dynamic Assembly, Reconfiguration and Type-checking), researcher.

98 — 00: Project TMR Network n. ERBFMRXCT980170: "LINEAR", researcher.

98 — 00: Project NATO n. HTECH.LG 960875: "FOUNDATIONS OF OBJECT-ORIENTED, FUNCTIONAL AND PARALLEL PROGRAMMING", researcher.

96 — 98: Project HCM n. CHRX-CT92-0046: "TYPED LAMBDA-CALCULUS", researcher.

7.5. **Membership to national projects.**

13 — 15: "LINEAR TECNIQUES FOR THE ANALYSIS OF LANGUAGES (LINTEL)", funded by Fondazione Compagnia di San Paolo, researcher.

09 — 12: Regione Piemonte - Converging technologies 2007. Project "BIOBITS", researcher.

04 — 06: MURST 40%: "FOLLIA" (FOndazioni Logiche di LInguaggi Astratti di programmazione), researcher.

02 — 04: MURST 40%: "PROTOCOLLO" (from PROof TO COmputations through Linear LOgic), researcher in charge of the research argument "Logic and computational complexity".

02 — 04: MURST 40%: "COMETA" (COMputational METAmodels) researcher in charge of the research argument "Models and types for computations with bounded complexity (Complexity)".

01 — 02: MURST 40%: "SEMANTICA LOGICA E LOGICAL FRAMEWORKS", researcher.

00 — 02: MURST 40%: "LOGICA LINEARE E OLTRE", researcher.

7.6. **Post-Doctoral periods.**

1/06/98 — 31/05/99: Institute de Mathématiques de Luminy — CNRS (Marseille — Francia). "Marie Curie" fellowship of the european research project *Training and Mobility of Researchers*, contract n. ERBFMBICT972805. Title: "TYPES AND COMPUTATIONS-AS-QUESTIONS/ANSWERS PROTOCOL", supervisor Prof. Jean-Yves Girard.

1/06/97 — 31/05/98: Institute de Mathématiques de Luminy — CNRS (Marseille — Francia). "Marie Curie" fellowship of the european project *Training and Mobility of Researchers*, contract n. ERBFMBICT961411. Title: "MODELS OF LAMBDA CALCULUS AND STRUCTURAL RULES", supervisor Prof. Jean-Yves Girard.

1/11/96 — 31/07/97: Brandeis University (Waltham, Massachusetts — Stati Uniti). NFS funds CDA-9504288 and CCR-9216185, fund ONR N00014-93-1-1015. Title: "OPTIMAL EVALUATION OF THE LAMBDA CALCULUS", Supervisor Prof. Harry Mairson.

7.7. **Participation to national and international schools.**

25/09/07 — 27/09/07: "ELEMENTI DI DINAMICA NON LINEARE: STABILITÀ, BIFORCAZIONI E CAOS", Politecnico di Milano — Italia.

19/08/07 — 31/08/07: "INTERNATIONAL TYPES SUMMER SCHOOL ON AUTOMATED THEOREM PROVING AND PROGRAM VERIFICATION", Bertinoro — Italia.

25/09/95 — 29/09/95: "SUMMER SCHOOL ON SEMANTICS AND LOGICS COMPUTATION", Cambridge — Gran Bretagna.

28/06/93 — 9/07/93: "INTERNATIONAL SUMMER SCHOOL IN LOGIC FOR COMPUTER SCIENCE", Chambery — Francia.

30/09/91 — 11/10/91: "ADVANCED SCHOOL ON THE ALGEBRAIC, LOGICAL AND CATEGORICAL FOUNDATIONS OF CONCURRENCY", Gargnano del Garda — Italy.

7.8. **Revision activities.**

since 1999: Mathematical Review reviewer.

International conferences: DICE18, CSL18, FSCD18, QPL18, SIGCSE18, FSTTCS17, FoSSaCS17, CONCUR16, FOPARA15, LCC11, DICE11, FOPARA11, LPAR10, TLCA09, DCM07, CSL07, LICS07, TERM-GRAPH07, TLCA07, ITRS05, TLCA05, TABLEAUX05, ESOP04, POPL04, SAAC03, ICTCS03, TYPES03, CSL02, LICS02, TCS02, FOSSACS01, TLCA01, FOSSACS00, CSL00, ICC00, LICS99, FCT99, FI99, TLCA99, LICS98, TLCA97, CAAP97, TLCA95, CSL92.

Riviews: LOGICAL METHODS IN COMPUTER SCIENCE, ANNALS OF PURE AND APPLIED LOGIC, STUDIA LOGICA, JOURNAL ON LOGICAL METHODS IN COMPUTER SCIENCE, ACM TRANSACTIONS ON COMPUTATIONAL LOGIC, INFORMATION & COMPUTATIONS, MATHEMATICAL STRUCTURES IN COMPUTER SCIENCE, THEORETICAL COMPUTER SCIENCE.

Books: Advances on Linear Logic II.

8. BIBLIOGRAPHY

THEORETICAL SUBJECTS — INTERNATIONAL JOURNALS

[ALL20] Matos Armando, Paolini Luca, and Roversi Luca. The fixed point problem of a simple reversible language. *THEORETICAL COMPUTER SCIENCE*, 813:143–154, 2020.

[AR02] Andrea Asperti and Luca Roversi. Intuitionistic light affine logic. *ACM Trans. Comput. Logic*, 3(1):137–175, January 2002.

[CCO+15] Daniele Canavese, Emanuele Cesena, Rachid Ouchary, Marco Pedicini, and Luca Roversi. Light combinators for finite fields arithmetic. *Science of Computer Programming*, 111(3):365 — 394, November 2015.

[LR20] Gianluca Curzi Luca Roversi. A type-assignment of linear erasure and duplication. *THEORETICAL COMPUTER SCIENCE*, 837:26–53, 2020.

[PPR16] Luca Paolini, Mauro Piccolo, and Luca Roversi. A class of reversible primitive recursive functions. *Electronic Notes in Theoretical Computer Science*, 322(18605):227–242, 2016.

[PPR18] Luca Paolini, Mauro Piccolo, and Luca Roversi. On a class of reversible primitive recursive functions and its turing-complete extensions. *New Generation Computing*, 36(3):233–256, Jul 2018.

[PPR20] L. Paolini, M. Piccolo, and L. Roversi. A class of recursive permutations which is primitive recursive complete. *THEORETICAL COMPUTER SCIENCE*, 813:218–233, 2020.

[PRR99] Alberto Pravato, Simonetta Ronchi della Rocca, and Luca Roversi. The call by value λ-calculus: a semantic investigation. *Mathematical Structures in Computer Science*, 9(5):617 — 650, 1999.

[PRR12] Elaine Pimentel, Simonetta Ronchi Della Rocca, and Luca Roversi. Intersection Types from a Proof-theoretic Perspective. *Fundamenta Informaticae*, 121(1-4):253—274, December 2012.

[Rov00] Luca Roversi. Light affine logic as a programming language: a first contribution. *International Journal of Foundations of Computer Science*, 11(1):113 — 152, March 2000.

[Rov16] Luca Roversi. A deep inference system with a self-dual binder which is complete for linear lambda calculus. *Journal of Logic and Computation*, 26(2):677–698, 2016. Preliminary version at https://arxiv.org/abs/1212.4483.

[RR97] Simonetta Ronchi Della Rocca and Luca Roversi. Lambda calculus and intuitionistic linear logic. *Studia Logica*, 59(3), 1997.

THEORETICAL SUBJECTS — INTERNATIONAL WORKSHOPS AND NATIONAL CONFERENCES

[CPR12] Emanuele Cesena, Marco Pedicini, and Luca Roversi. Typing a Core Binary-Field Arithmetic in a Light Logic. In R. Peña, M. van Eekelen, and O. Shkaravska, editors, *Foundational and Practical Aspects of Resource Analysis (subtitle: 2nd International Workshop on Foundational and Practical Aspects of Resource Analysis, FOPARA 2011)*, volume 7177 of *LNCS*, pages 19 – 35. Springer, 2012.

[MPR20] A. B. Matos, L. Paolini, and L. Roversi. On the expressivity of total reversible programming languages. In *Lecture Notes in Computer Science (including subseries Lecture Notes in Artificial Intelligence and Lecture Notes in Bioinformatics)*, volume 12227, pages 128–143, Heidelberg, 2020. Springer.

[PRDRR05] Elaine. Pimentel, Simona Ronchi Della Rocca, and Luca Roversi. Intersection types: a proof-theoretical approach. In *Proc. of STRUCTURES AND DEDUCTION - ICALP Workshop, Lisbon July 16-17*, pages 189 – 204, July 2005. Presented at the workshop Structures and Deduction (SD'05).

[PRDRR08] Elaine Pimentel, Simona Ronchi Della Rocca, and Luca Roversi. Intersection Types from a proof-theoretic perspective. Presented at the 4th Workshop on Intersection Types and Related Systems (ITRS '08) – Torino (Italy), March 2008.

[PRZ19] Luca Paolini, Luca Roversi, and Margherita Zorzi. Quantum programming made easy. In Thomas Ehrhard, Maribel Fernández, Valeria de Paiva, and Lorenzo Tortora de Falco, editors, Proceedings Joint International Workshop on *Linearity & Trends in Linear Logic and Applications,* Oxford, UK, 7-8 July 2018, volume 292 of *Electronic Proceedings in Theoretical Computer Science*, pages 133–147. Open Publishing Association, 2019.

[RV10a] Luca Roversi and Luca Vercelli. A structural and local criterion for polynomial time computations. In M. van Eekelen and O. Shkaravska, editors, *Foundational and Practical Aspects of Resource Analysis (subtitle: 1st International Workshop on Foundational and Practical Aspects of Resource Analysis, FOPARA 2009)*, volume 6324 of *LNCS*, pages 66 – 81. Springer, 2010.

[RV10b] Luca Roversi and Luca Vercelli. Safe Recursion on Notation into a Light Logic by Levels. In *Proceedings of the Workshop on Developments in Implicit Computational complexity (DICE 2010)*, volume 23 of *Electronic Proceedings in Theoretical Computer Science*, pages 63 – 77. On-line, March 2010.

THEORETICAL SUBJECTS — INTERNATIONAL CONFERENCES

[DLMR04] Ugo Dal Lago, Simone Martini, and Luca Roversi. Higher-order linear ramified recurrence. In *Proceedings of TYPES'04*, volume 3085 of *Lecture Notes in Computer Science*, pages 178 – 193. Springer Verlag, December 2004.

[DLRV09] Ugo Dal Lago, Luca Roversi, and Luca Vercelli. Taming Modal Impredicativity: Superlazy Reduction. In *Proceedings of Logical Foundations of Computer Science (LFCS09)*, volume LNCS 5407 of *Lecture Notes in Computer Science*, pages 137 – 151. Springer Verlag, January 2009. An extended version is http://arxiv.org/abs/0810.2891.

[GRV09] Marco Gaboardi, Luca Roversi, and Luca Vercelli. A by-level analysis of Multiplicative Exponential Linear Logic. In *Proceedings of MFCS'09*, volume 5734 of *Lecture Notes in Computer Science*, pages 344 – 355. Springer, 2009. DOI:10.1007/978-3-642-03816-7, ISBN:978-3-642-03815-0.

[MPR18] Armando B. Matos, Luca Paolini, and Luca Roversi. The fixed point problem for general and for linear srl programs is undecidable, 2018.

[PPR17] Luca Paolini, Mauro Piccolo, and Luca Roversi. A certified study of a reversible programming language. In Tarmo Uustalu, editor, *TYPES 2015 postproceedings*, volume 69 of *LIPIcs*. Schloss Dagstuhl - Leibniz-Zentrum fuer Informatik, Germany, 2017.

[PR95] Alberto Pravato and Luca Roversi. $\lambda_!$ considered both as a paradigmatic language and as a meta-language. In *Fifth Italian Conference on Theoretical Computer Science*, Salerno (Italy), 1995.

[PRR95] Alberto Pravato, Simona Ronchi della Rocca, and Luca Roversi. Categorical semantics of the call-by-value lambda calculus. In *Proc. of TLCA'95, Second International Symposium on Typed Lambda Calculus and Applications*, volume 902 of *Lecture Notes in Computer Science*, pages 381–396, Edinburgh (UK), 1995. Springer-Verlag.

[RDRR01] Simona Ronchi Della Rocca and Luca Roversi. Intersection Logic. In *Proceedings of CSL'01*, volume 2142 of *Lecture Notes in Computer Science*, pages 414–428. Springer Verlag, 2001.

[Rov92] Luca Roversi. A compiler from Curry-typed λ-terms to linear-λ-terms. In *Theoretical Computer Science: Proceedings of the Fourth Italian Conference*, pages 330 – 344, L'Aquila (Italy), October 1992. World Scientific.

[Rov96] Luca Roversi. A Type-Free Resource-Aware λ-Calculus. In *Fifth Annual Conference of the EACSL (CSL'96)*, volume 1258 of *Lecture Notes in Computer Science*, pages 399 – 413, Utrecht (The Nederland), September 1996. Springer-Verlag.

[Rov98a] Luca Roversi. Concrete Syntax for Intuitionistic Light Affine Logic with Polymorphic Type Assignment. In *Sixth Italian Conference on Theoretical Computer Science (ICTCS'98)*, pages 24 – 36, Prato (Italy), November 1998. World Scientific.

[Rov98b] Luca Roversi. A Polymorphic Language which is Typable and Poly-step. In *Proceedings of the Asian Computing Science Conference (ASIAN'98)*, volume 1538 of *Lecture Notes in Computer Science*, pages 43 – 60, Manila (The Philippines), December 1998. Springer Verlag.

[Rov99] Luca Roversi. A P-Time Completeness Proof for Light Logics. In *Ninth Annual Conference of the EACSL (CSL'99)*, volume 1683 of *Lecture Notes in Computer Science*, pages 469 – 483, Madrid (Spain), September 1999. Springer-Verlag.

[Rov11] Luca Roversi. Linear Lambda Calculus and Deep Inference. In Luke Ong, editor, *TLCA 2011 - 10th Typed Lambda Calculi and Applications, Part of RDP'11*, volume 6690 of *ARCoSS/LNCS*, pages 184 – 197. Springer, 2011. ISBN 978-3-642-21690-9. An extended version available at http://arxiv.org/abs/1011.3668.

[RV09] Luca Roversi and Luca Vercelli. Some Complexity and Expressiveness results on Multimodal and Stratified Proof-nets. In *Proceedings of TYPES'08*, volume 5497 of *Lecture Notes in Computer Science*, pages 306 – 322. Springer, 2009.

THEORETICAL SUBJECTS — GUEST EDITOR

[RRDRR01] Antonio Restivo, Simona Ronchi Della Rocca, and Luca Roversi, editors. *Theoretical Computer Science - 7th Italian Conference (ICTCS 2001)*, volume 2202 of *Lecture Notes in Computer Science*. Springer Verlag, October 2001.

THEORETICAL SUBJECTS — DOCTORAL THESIS

[Rov95] Luca Roversi. *Semantics of lambda-calculi designed from Intuitionistic linear logic*. PhD thesis, Dipartimento di Informatica, Università di Pisa, C.so Italia 40 – 56125 Pisa – Italy, February 1995.

APPLICATIVE SUBJECTS

[AR02] Krastio Atanassov and Luca Roversi. *Oracle 8i on Linux RH7.X Installation HOWTO*. Dipartimento di Informatica — Università di Torino, 2002. Linux Domcumentation Project (http://tldp.org/HOWTO/Oracle8-on-RH7X-HOWTO.html).

[BBDM+05] Matteo Baldoni, Cristina Baroglio, S. De Marchis, Barbara Demo, Alberto Martelli, Isabelle Perroteau, and Luca Roversi. Esperienze di E-learning all'interno della Facoltà di Scienze Matematiche, Fisiche e Naturali dell'Università di Torino. In B. Boniolo, S. Margarita, and C. Spadaro, editors, *Atti del Convegno E-learning e Università: iniziative ed esperienze in Italia ed Europa*, Torino, Settembre 2005.

[BBGR05] Matteo Baldoni, Cristina Baroglio, Claudio Grandi, and Luca Roversi. Live! I-Learn @ Home. In M. Scotto and G. Succi, editors, *Proc. of 1st International Conference on Open Source Systems, OSS 2005*, pages 294 – 295, Genova, July 2005. ECIG Edizioni Culturali Internazionali Genova.

[BCG+11] Paola Bonfante, Francesca Cordero, Stefano Ghignone, Dino Ienco, Luisa Lanfranco, Giorgio Leonardi, Rosa Meo, Stefania Montani, Luca Roversi, and Alessia Visconti. A Modular Database Architecture Enabled to Comparative Sequence Analysis. *LNCS Transactions on Large-Scale Data- and Knowledge-Centered Systems*, 6990:124 — 147, 2011.

[Cor10] Cordero, Francesca and Ghignone, Stefano and Lanfranco, Luisa and Leonardi, Giorgio and Meo, Rosa and Montani, Stefania and Roversi, Luca. *BIOBITS: A Study on Candidatus Glomeribacter Gigasporarum with a Data Warehouse*, volume Database Technology for Life Sciences and Medicine of *Science, Engineering, and Biology Informatics*, chapter 7, pages 139 — 155. World Scientific Publishing Company, Singapore, 2010.

9. ASSESSMENTS

14/04/99: Qualified to the function of *Maître de Conference — section 27 (INFORMATIQUE)*, french *Conseil national des univerités*.

20/10/95: Qualified to teach **LIV. Informatica Industriale** in italian higher schools, *Ministero della pubblica istruzione, sovraintendenza per il Piemonte*.