

Curriculum Vitae

Carlos Henrique Cabral Duarte

June 12, 2018

1 - Identification

1. Name: Carlos Henrique Cabral Duarte
2. Date of birth: 01/July/1970
3. City of birth: Juiz de Fora, MG, Brazil
4. Nationality: Brazilian citizen

2 - Personal Data

1. Affiliation: Dione Duarte†
Aracy Cabral Duarte
2. Marital status: Married
3. Profession: Systems Analyst
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Rio de Janeiro, RJ, Brazil, 22270-030
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Rio de Janeiro, RJ, Brazil, 20031-917
6. Telephone numbers: +55 (21) 3497-7838 (residence), +55 (21) 98518-7838 (mobile),
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3 - Education

1. Postgraduate studies (1994-99):
Department of Computing, Imperial College, London, UK
Degree: PhD in Computer Science
Advisor: Prof. Dr. Thomas Stephen Edward Maibaum
2. Postgraduate studies (1992-94):
Department of Informatics
Pontifical Catholic University of Rio de Janeiro (PUC-Rio), RJ, Brazil
Degree: MSc in Informatics
Advisor: Prof. Dr. Roberto Ierusalimschy
Final G.P.A.: 9.7

3. Undergraduate studies (1988-92):
Department of Mathematics
Federal University of Juiz de Fora (UFJF), MG, Brazil
Degree: Joint BSc in Mathematics and Computing
Advisor: Prof. Michel Heluey Fortuna
Final G.P.A.: 7.7
4. Primary and secondary school (1974-87):
Colégio dos Jesuítas, Juiz de Fora, MG, Brazil

4 - Languages

1. *Portuguese*: My native language.
2. *English*: Skillful reading and writing, but a bit deficient in conversation (C2).
3. *French and German*: Basic comprehension of written and spoken language (A2).
4. *Spanish*: Comprehension of written and spoken language.

5 - Professional Experience

5.1 - R&D and Financing

1. *Senior Member of Technical Staff* (since 1993¹)
National Bank for Economic and Social Development — BNDES
Address: Av. República do Chile, 100, Centro
Rio de Janeiro, RJ, Brazil, 20001-970
Weekly journey: 35 hours

Professional History:

- Strategic Planning Area — AP
Department of Accreditation and Local Content — DECRED
Period: 2012-
- Industry Area — AI
Information Technology Department — DETIC
Period: 2003-2012
Role: Operations Manager and Deputy Head of Department
- National Information Technology Committee — CATI
Period: 2003-2012
Role: Board Member (representative of BNDES)
- Society for the Promotion of Brazilian Software Excellence — Softex Society
Period: 2003-2012
Role: Deputy Board Member (representative of BNDES)

¹Contract interrupted from 15/09/1994 to 14/09/1998.

- Logistics and Telecommunications Area — ALT
Electronics Complex Department — GECEL
Period: 2002
Role: Accounts Manager
- Operations Area 1 — AO1
Department of Software Operations — GSOFTE
Period: 1998-2001
- Human Resources Area — AA
Department of Systems — DESIS
Period: 1993-1994

Description:

From January of 1993 to August of 1994, I worked as a systems analyst maintaining and developing new functionalities for the credit operation system of BNDES and also developing a new software system to support the supervision of financed projects by technical staff members. In these activities, an IBM 9021 was used. The software components were implemented using the NATURAL 2 language so that databases managed by the ADABAS system could be accessed.

Afterwards, I became involved in training the initial users of the latter system. I also made an attempt to downsize parts of that system to an operational environment consisting in Novell/Netware local networks and software components developed using Fox Pro. This new system architecture took into account the adoption of an ODBC platform by BNDES.

In these activities, I recurrently contributed to the standardization of software development activities at the bank, particularly the production of user interfaces and database systems. We put our standards into practice so many times that ended up defining a software development approach based on software component reuse and rapid prototyping, which had been used for more than a decade.

After returning to BNDES in 1998 from my period on leave of absence, I worked first as a member of technical staff (from 1998 to 2001) and afterwards as a financing manager (from 2002 to 2012), eventually also as deputy head of department. My duties were to visit information and communication technology companies, foster the production of business plans, to assess their feasibility and, when appropriate, to recommend these plans for financing by the bank.

My main achievement in these roles, together with other colleagues, was to propose, implement and obtain profits from new financing instruments particularly devoted to support the Brazilian software industry. As a direct result of my activities, more than 60 software companies obtained funding to implement their business plans, most of which through credit, but some of them also using venture capital instruments. In this period, I was a key person in charge of supporting the growth of two formerly medium size enterprise resource planning software companies which are currently listed in the Bovespa Stock Market (consequently having participated in the planning and structuring of each IPO). As a secondary achievement, I also

performed a similar role regarding the financing of non-profit R&D organizations of the Information and Communication Technology sector. In 2007, my biography was published by Marquis Who is Who in the World due to contributions to the Brazilian software industry.

Lately, after being relieved from the role of manager (from 2012 onwards), my role has been to analyze machinery, equipment, systems and components (particularly of the medical equipment sector) to assess if they fulfill the requirements to be accredited by BNDES, thereby becoming eligible to have their sales financed.

2. *Scientific Programmer* (1989-92²)

Brazilian Farming and Cattle Breeding Research Company — EMBRAPA

Dairy Cattle Research Centre — CNPGL

Quantitative Methods Sector — SMQ

Address: Rua Eugênio do Nascimento, 610, Dom Bosco

Juiz de Fora, MG, Brazil, 36088-330

Weekly journey: 40 hours

Description:

The SMQ was devoted to collect, process and analyze zoo-technical data for research, obtained from dairy cattle cooperatives and breeder associations. There, my activities were related to the development of a software system which was to be deployed throughout the country in order to collect data and distribute the results of centralized statistical analyses concerning genetic improvement of dairy cattle. At that time, Brazil did not have a nationwide computer network, which led us to design the exchange of data through floppy disks dispatched by post. The client applications were meant to run on IBM-PC machines and were implemented using Turbo Pascal. A UNIX machine should be used to concentrate the data and perform statistical analyses using software written in C and FORTRAN 77. I took part in the analysis, design and implementation of the whole system.

During the development of that software system, I had been supervising the activities of a trainee. In addition, I helped organizing a national meeting among breeding association representatives to standardize data in the information system, since there were many different automated systems running in distinct places of the country.

As eventual activities, I trained users and took part in the standardization, configuration and installation of equipment and software. I also attended to a meeting to discuss the National Information System of Farming and Cattle Breeding Research with a representative of the Interamerican Development Bank (IDB), since EMBRAPA was trying to obtain external funding to support the development of that system.

²Contract interrupted between 03/1992 and 12/1992.

5.2 - Teaching

1. *Lecturer* and
Academic Coordinator of the Programming Language Disciplines:
Information Systems Undergraduate Course (2001–2009)
Institution: Department of Informatics
University Estácio de Sá (UNESA)
Address: Rua do Bispo 83, Rio Comprido
Rio de Janeiro, RJ, Brazil, 20261-902
Weekly Journey: 12 hours
Type: BSc course
2. *Part-Time Lecturer:* Distributed Systems (09-12/1999)
Institution: Department of Systems and Computing Engineering — DE-9
Military Institute of Engineering — IME
Address: Praça General Tiburcio 80, Urca
Rio de Janeiro, RJ, Brazil, 22290-270
Journey: 52 hours
Type: MSc course
3. *Temporary Lecturer:* Compiler Construction (07-08/1999)
Institution: Department of Computer Science — DCC
Federal University of Juiz de Fora — UFJF
Address: Barão Geraldo
Juiz de Fora, MG, Brazil, 36016-970
Journey: 60 hours
Type: BSc course
4. *Teaching assistant:* Many BSc and MSc courses (1996-97)
Institution: Imperial College, Department of Computing
Address: Huxley Building, 180 Queen's Gate
London, UK, SW7 2BZ
5. *Lecturer:* Logical Design of Database Systems (12/1992)
Institution: Brazilian Petroleum S.A. — PETROBRÁS
Address: Southeast Human Resources Development Centre — CEN-SUD
Rua General Canabarro, 500, Tijuca
Rio de Janeiro, RJ, Brazil, 20271-201
Journey: 24 hours
Type: Short term graduate course

5.3 - Research

1. *Research Fellow:* I was a Brazilian National Research Council Fellow from April of 2001 to March 2003 (CNPq 2C). The title of my research project was “Methods, Techniques and Tools for Rigorous Development of Open Distributed Systems”.

2. *Invited Speaker*: I was invited to give talks at the University of Campinas (22/06/2018), the Brazilian-German Chamber of Commerce and Industry (08/03/2018), the Workshop of the Brazilian Software Process Improvement Model (27/08/2017), the Federal University of Rio de Janeiro (14/06/1999), the Federal University of Juiz de Fora, (13/11/1998 and 02/10/2000), the University of Birmingham, UK (14/03/1997), and to provide the keynote during the 16th Brazilian Symposium on Software Quality (SBQS 2017).
3. *Guest Speaker*: I presented scientific unpublished work in the following thematic network workshops of the European Community research framework: EUROLAT-IS (2000, Rio, Brazil, also working as a session broker) and ISCORE (1995, Evry, France). My research was also presented at the 4th Imperial College Theory and Formal Methods Session Workshop (1998, Bath, UK).
4. *Referee*: I have done some refereeing for the Journal of Industrial Information Integration (2017-8), IEEE Access (2017-8), Journal of Computational Methods in Sciences and Engineering (2016-7), Journal of Systems and Software (2002-6), IEEE Software (2002), Information Processing Letters (2000-1), Higher Order and Symbolic Computation Journal (1998) and the Journal of Logic and Computation (1997-8).
5. *Reviewer*: I have also worked as a reviewer for the International Workshop on IEEE International Workshop on Conflicts and Synergies among Reliability, Security, and other Qualities (CSRSQ 2018), the International Requirements Engineering Conference (RE 2014-8), the International Conference on Software Engineering Advances (ICSEA 2016-7), the International Workshop on Just-in-time Requirements Engineering (JIT RE 2017), the International Workshop on Conducting Empirical Studies in Industry (CESI 2015), International Conference on Algebraic Methodology and Software Technology (AMAST 1998), the International Conference on Fundamental Approaches to Software Engineering (FASE 1998 and FASE 2001) and the International Colloquium on Automata, Languages and Programming (ICALP 1997).
6. *Ad hoc Referee*: I have worked as an *ad hoc* referee in evaluating R&D and research projects submitted to many Brazilian funding agencies: the Coordination of Graduate Level Human Resources Improvement (CAPES 2010-4), the Brazilian National Research Council (CNPq 1999-2003) and other public foundations belonging to local state governments in Brazil (FACEPE 2001 and Fundação Araucária 2002-9).

5.4 - Temporary Jobs and Visits

1. *Visiting researcher* (08-10/1995)
Intelligent Network Platform Department — INDP
Hewlett-Packard Laboratories, Bristol — HPLB
Address: Filton Road, Stoke Giford
Bristol, UK, BS12 6QZ

Supervisor: Dr. Martin Sadler
Weekly journey: 39 hours

2. *Computer programmer (intern)*³ (05-11/1988)

Data Processing Centre — CPD
Federal University of Juiz de Fora — UFJF
Address: Barão Geraldo
Juiz de Fora, MG, Brazil, 36016-970

Supervisor: Prof. Dr. Guilherme Horta Travassos (COPPE/RJ)
Weekly journey: 12 hours

5.5 - Participation in Examining and Judgment Boards

1. *Integral Equations via Domain Theory* (07/2008)

Institution: Polytechnic Institute, UERJ
Type of participation: external examiner
Type of work: PhD thesis in Portuguese
Candidate: Antônio Espósito Junior

2. *Credit Analysis using Artificial Intelligence with Validation Data from the BNDES Credit Card* (03/2008)

Institution: Polytechnic Institute, UERJ
Type of participation: external examiner
Type of work: PhD thesis in Portuguese
Candidate: Oswaldo Luiz Humbert Fonseca

3. *Corporate Credit Risk Analysis based on Artificial Neural Networks* (07/2003)

Institution: Informatics course, University Estácio de Sá
Type of participation: Student supervisor and board chair
Type of work: BSc dissertation in Portuguese
Candidate: Inah Garritano

4. *A Software Artifact Generator Production Process* (08/2000)

Institution: Department of Informatics, PUC-Rio
Type of participation: deputy external examiner
Type of work: PhD thesis in Portuguese
Candidate: Luiz Paulo Alves França

5. *COJEM — Young Software Entrepreneur National Award* (12/1998)

Institution: Softex Society — FUMSOFT
Type of participation: Judgment board member as BNDES representative
Type of work: Business plans in Portuguese
Candidates: Software companies generated within the Softex System

6. *ASSESPRO Award — Best Brazilian Software in 1993* (07/1994)

Institution: Association of Software Companies and Data Processing Services

³Part time.

Type of participation: Judgment board member as BNDES representative

Type of work: Brazilian software produced in 1993

Candidates: Brazilian software companies

7. *A Process Model for Scientific Software Development* (08/1993)

Institution: Mathematics course, UFJF

Type of participation: Student supervisor and board chair

Type of work: BSc dissertation in Portuguese

Candidate: Adilson Luiz Fernandes

5.6 - Event Organization and Participation

1. *1st IEEE International Workshop on Conflicts and Synergies among Reliability, Security and other Qualities* (CSRSQ 2018)

Location: Lisbon, Portugal

Type of participation: Program Committee Member (2018)

2. *22-26th IEEE International Requirements Engineering Conference* (RE 2014-8)

Location: Karlskrona, Sweden (2014); Ottawa, Canada (2015);

Beijing, China (2016); Lisboa, Portugal (2017); Banff, Canada (2018)

Type of participation: Industry Program Committee Member (2014-8) and Industry Program Committee Co-chair (2016)

3. *11-13th International Conference on Software Engineering Advances* (ICSEA 2016-8)

Location: Rome, Italy (2016); Athens, Greece (2017); Nice, France (2018)

Type of participation: Program Committee Member

4. *2nd International Workshop on Just-in-time Requirements Engineering* (JIT RE 2017)

Location: Lisbon, Portugal

Type of participation: Program Committee Member (2017)

5. *3rd-4th International Workshop on Conducting Empirical Studies in Industry* (CESI 2014-5)

Location: Florence, Italy (2014) and Austin, Texas, USA (2015)

Type of participation: Member of the Organizing Committee in 2014-5 and since then Member of the Advisory Board

6. *36th International Conference on Software Engineering* (ICSE 2014)

Location: Hyderabad, India

Type of participation: Panelist and judge of the technologies submitted to the Ready-Set-Transfer Technology Transfer Panel

7. *21th IEEE International Requirements Engineering Conference* (RE 2013)

Institution: Department of Informatics, Pontifical Catholic University of Rio de Janeiro

Type of participation: Panelist and judge of the technologies submitted to the Ready-Set-Transfer Technology Transfer Panel

8. *Seminar on the Perspectives of Investment in Brazil* (2009)
Institution: Brazilian Development Bank, BNDES
Type of participation: Discussant of the study on Information Technology
9. *International Seminar on the Promotion of Innovation and Intellectual Property in Information Technology* (2008)
Institution: Brazilian National Institute of Intellectual Property, INPI
Type of participation: Organizing Committee Member
10. *1st-2nd National Seminar on the Results of the Information Technology Law* (2003/2006)
Institution: Brazilian National Information Technology Committee, CATI
Type of participation: Moderator of the panel on Medical Equipment(2003) and Mobile Telecommunication Devices (2006)

6 - Written Works

6.1 - Publications

6.1.1 - Conference Proceedings

1. Andreas Jedlitschka, Ayse Benner, Carlos Henrique C. Duarte and Smita Ghaisas. *Proc. 4th International Workshop on Conducting Empirical Studies in Industry* (CESI 2015). 36 pages. ACM Press. May 2016.
2. Xavier Franch, Nazim Madhavji and Carlos Henrique C. Duarte. *Proc. 3rd International Workshop on Conducting Empirical Studies in Industry* (CESI 2015). 56 pages. IEEE Computer Society Press. May 2015.

6.1.2 - Papers in International Journals

1. Christof Ebert and Carlos Henrique C. Duarte. Digital Transformation. *IEEE Software* **35** (4). July 2018.
2. Xavier Franch, Nazim H. Madhavji, and Carlos Henrique C. Duarte. Special Session on Conducting Empirical Studies in Industry (CESI). *Information and Software Technology* **98** 146–147. June 2018,
3. Carlos Henrique C. Duarte, Andreas Jedlitschka, Ayse Benner. 4th International Workshop on Conducting Empirical Studies in Industry (CESI 2016) - Post-workshop Report. *ACM Software Engineering Notes* 42(2):15-18. April 2017.
4. Carlos Henrique C. Duarte. Productivity Paradoxes Revisited: Assessing the Relationship Between Quality Maturity Levels and Labor Productivity in Brazilian Software Companies. *Empirical Software Engineering* 22(2):818-847. April 2017.

5. Carlos Henrique C. Duarte, Xavier Franch, and Nazim Madhavji. 3rd International Workshop on Conducting Empirical Studies in Industry (CESI 2015) - Post-workshop Report. *ACM Software Engineering Notes* 40(5):26-29. September 2015.
6. Carlos Henrique C. Duarte. Cooperative Development of a Software Industry. *IEEE Software* 19(3):84-87. March 2002.
7. Carlos Henrique C. Duarte and Tom Maibaum. A Branching Time Logical System for Open Distributed Systems Development. *Electronic Notes in Theoretical Computer Science* 67. March 2002.
8. Carlos Henrique C. Duarte and Tom Maibaum. A Rely-guarantee Discipline for Open Distributed Systems Design. *Information Processing Letters* 74(1-2):55-63. May 2000.
9. Carlos Henrique C. Duarte. Proof-Theoretic Foundations for the Design on Actor Systems. *Mathematical Structures in Computer Science* 9(3):227-252. June 1999.
10. Carlos Henrique C. Duarte. Moving Software to a Global Platform. *IEEE Spectrum* 33(7):40-43. July 1996.

6.1.3 - Papers in Regional Journals

1. Carlos Henrique C. Duarte. 24th International Requirements Engineering Conference (RE 2016) — Industry track post-conference report. *Revista do BNDES* 46:313-323. December 2016. In Portuguese.
2. Carlos Henrique C. Duarte. A Decade of Support to the Information and Communication Technology Sector: Important Events and the Role of BNDES. *Revista do BNDES* 37:92-126. July 2012. In Portuguese.
3. Carlos Henrique C. Duarte and Carlos Eduardo C. Branco. Social and Economic Impacts of the Brazilian Policy for Information Technologies. *Revista do BNDES* 15:125-145. June 2001. In Portuguese.

6.1.4 - Papers in Proceedings of International Events

1. Carlos Henrique C. Duarte. The Influence of Tax Incentive and Market Regulation Requirements on IT Companies: Empirical Evidence from the Brazilian Industry. International Workshop on Requirements Engineering and Law (RELAW 2016). In: *RE 2016 Workshop Proceedings*. pages 239-248. IEEE Computer Society Press. Beijing, China. September 2016.
2. Christof Ebert and Carlos Henrique C. Duarte. Requirements Engineering for the Digital Transformation: An Industry Panel. In *Proc. 24th IEEE International Requirements Engineering Conference (RE 2016)*. pages 4-5. IEEE Computer Society. Beijing, China. September 2016.

3. Carlos Henrique C. Duarte and Tony Gorschek. Technology Transfer – Requirements Engineering Research to Industrial Practice: An Open (Ended) Debate. In *Proc. 23rd International Requirements Engineering Conference (RE 2015)*. pages 414–415. IEEE Computer Society Press. Ottawa, Canada. August 2015.
4. Xavier Franch, Nazim Madhavji and Carlos Henrique C. Duarte. 3rd. International Workshop on Conducting Empirical Studies in Industry (CESI 2015) - Pre-workshop report. In *Proc. 37th International Conference on Software Engineering (ICSE 2015)*. pages 967–968. IEEE Computer Society Press. Florence, Italy. May 2015.
5. Carlos Henrique C. Duarte. Patterns of Cooperative Technology Development and Transfer for Software-Engineering-in-The-Large. In *Proc. 2nd International Workshop on Software Engineering Research and Industrial Practice (SER&IP 2015)*. pages 32–38. IEEE Computer Society Press. Florence, Italy. May 2015.
6. Carlos Henrique C. Duarte. On the Relationship between Quality Assurance and Productivity in Software Companies. In *Proc. 2nd. International Workshop on Conducting Empirical Studies in Industry (CESI 2014)*. pages 31–38. IEEE Computer Society Press. Hyderabad, India. May 2014.
7. Carlos Henrique C. Duarte. Mathematical Models of Object-Based Distributed Systems. In *Formal Modeling: Actors, Open Systems and Biological Systems*. Lecture Notes in Computer Science 7000. pages 57–73. Springer Verlag. Stanford, USA. August 2011.
8. Carlos Henrique C. Duarte. Rigorous Development of Functional Programs using Temporal Logic. In *Proc. 4th Congress of Logic Applied to Technology (LAPTEC 2003)*. pages 9–18. Ed. Pleiade. São Paulo, SP, Brazil. November 2003.
9. Carlos Henrique C. Duarte A Logico-Categorical Semantics of XML/DOM. In *Proc. 2nd International Workshop on Web Dynamics (WEBDYN 2002)*. pages 46–56. Honolulu, Hawaii. May 2002.
10. Carlos Henrique C. Duarte and Carolyn Talcott. Clara: An Actor Language for High-Performance Distributed Computing. In *Proc. Brazilian Symposium on Computer Architecture – High Performance Computing (SBAC-PAD 2000)*. pages 29–37. São Pedro, SP, Brazil. October 2000.
11. Carlos Henrique C. Duarte. Towards a Proof-theoretic Foundation for Actor Specification and Verification. In John-Jules Ch. Meyer and Pierre-Yves Schobbens, editors, *Proc. Formal Models of Agents – Esprit WG Modelage Final Workshop Selected Papers*, Lecture Notes in Computer Science 1760. pages 123–142. Springer-Verlag. Siena, Italy. November 1999.
12. Carlos Henrique C. Duarte. A Proof-theoretic Approach to the Design of Object-based Mobility. In Howard Bowman and John Derrick, editors, *Proc. 2nd IFIP International Conference on Formal Methods for Open Object-Based Distributed*

Systems (FMOODS'97), pages 37–53. Ed. Chapman and Hall. Canterbury, UK. July 1997.

6.1.5 - Papers in Proceedings of Regional Events

1. Carlos Henrique C. Duarte. Current Trends in Rigorous Distributed Object Based Software Development. in *Proc. 1st. Workshop on Distributed Object Trends* (WTOD 2001). pages 157–169. São Paulo, SP, Brazil. November 2001.
2. Carlos Henrique C. Duarte and Roberto Ierusalimschy. Aplicando um Método Orientado a Objetos para Desenvolvimento de Compiladores. In *Proc. XXI Latin American Conference on Informatics* (PANEL'95). pages 743–754. Canela, RS, Brazil. July/August 1995.
3. Carlos Henrique C. Duarte, Esther Paciti, Sidney D. Silva, and Rubens N. Melo. HEROS: Um Sistema de Banco de Dados Heterogêneo Orientado a Objetos. In *Proc. VIII Brazilian Database Symposium* (SBB'D'93). pages 383–393. Campina Grande, PB, Brazil. May 1993.

6.1.6 - Poster Papers and Extended Abstracts

1. Carlos Henrique C. Duarte. Proof-theoretic Foundations for the Design of Extensible Software Systems (Extended abstract). *Bulletin of the European Association for Theoretical Computer Science* 68:245–247. June 1999.
2. Carlos Henrique C. Duarte. Acidity Yields Another Notion for Modularity in Formal Object-oriented Specifications (Extended abstract). In Max Mühlhäuser, editor, *Special Issues in Object-Oriented Programming*, pages 517–520. Dpunkt Verlag. July 1996. Workshop Reader of the 10th European Conference on Object-Oriented Programming (ECOOP'96), Linz, Austria.
3. Carlos Henrique C. Duarte and Roberto Ierusalimschy. On the Systematic Development of Compilers: A Case Study. In Peter Fritzon, editor, *Proc. of the Poster Session of CC'96 - International Conference on Compiler Construction*, number LITH-IDA-R-96-12 in Technical Report Series of Department of Computer and Information Science, Linköping University, Sweden. pages 49–56. April 1996.

6.1.7 - Others

1. Xavier Franch, Emmanuel Letier, Carlos Henrique C. Duarte, Christof Ebert, Trevis Breaux, and Anna Perini (2016). Message from the Chairs. In *Proc. 24th IEEE International Requirements Engineering Conference (RE 2016)*. pages xii–xiii. IEEE Computer Society Press. Beijing, China. September 2016.
2. Andreas Jedlitschka, Ayse Benner, Carlos Henrique C. Duarte and Smita Ghaisas. Message from the Chairs. In *Proc. 4th International Workshop on Conducting Empirical Studies in Industry (CESI'2016)*. pages vii–viii. ACM Press. May 2016.

3. Xavier Franch, Nazim Madhavji and Carlos Henrique C. Duarte. Message from the Chairs. In *Proc. 3rd International Workshop on Conducting Empirical Studies in Industry (CESI'2015)*. pages vii-viii. IEEE Computer Society Press. May 2015.
4. Carlos Henrique C. Duarte. A Road Map to Java Software Development (Book Review). *IEEE Software* 17(5):120–121. IEEE Computer Society Press. September 2000.
5. Carlos Henrique C. Duarte. *Proof-Theoretic Foundations for the Design of Extensible Software Systems*. PhD dissertation, Department of Computing, Imperial College, London, UK. November 1998.
6. Carlos Henrique C. Duarte. *O Desenvolvimento de um Compilador Miranda usando um Método Orientado a Objetos*. MSc dissertation, Department of Informatics, Pontifical Catholic University of Rio de Janeiro, Brazil. July 1994. In Portuguese.
7. Carlos Henrique C. Duarte, *Um Método para Desenvolvimento de Sistemas Interativos*, BSc Dissertation, Mathematics Department, Federal University of Juiz de Fora, Brazil. March 1992. 143 pages.

6.2 - Unpublished Reports and Dissertations

1. Carlos Henrique C. Duarte, O BNDES no prêmio ASSESPRO - Melhor software de 1993: Colhendo subsídios para financiamento ao desenvolvimento de software, *Restricted report*, AA/GEDES1, DESIS, BNDES. July 1994. 7 pages.
2. Carlos Henrique C. Duarte and Edward H. Haeusler. Técnicas Formais e Informais: Um Estudo sobre Integração usando Statecharts. Technical Report 12/93, Department of Informatics, Pontifical Catholic University of Rio de Janeiro, Brazil. 1993.
3. Carlos Henrique C. Duarte, Roberto Ierusalimsky, and Carlos José P. Lucena. On the Modularisation of Formal Specifications: The NDB Example Revisited. Technical Report 33/92, Department of Informatics, Pontifical Catholic University of Rio de Janeiro, Brazil. 1992.

7 - Miscellaneous

I had to take part in two public competitions to be appointed to the positions in the Civil Service, where I have been employed. In the first case, for the scientific programmer job at EMBRAPA, I was approved in third place. In the second one, for the software engineer job at BNDES, I was approved in tenth place. Both competitions had an average number of 100 competitors per place.

Many Brazilian universities offered me a place in their Computing MSc courses, using research grants from CNPq, the Brazilian National Research Council. The local newspaper of my home town reported that I was graded as the top student in the admission

processes of all these universities, although I do not have formal proof of this. They were the Federal University of Rio de Janeiro (UFRJ), the Federal University of Minas Gerais (UFMG), the State University of Campinas (Unicamp) both at the Department of Automation and Control (DAC) and the Department of Computing Science (DCC), and also the Potifical Catholic University of Rio de Janeiro (PUC-Rio). I was also supported by CNPq in my PhD studies and my thesis was nominated for the British Computer Society Distinguished Dissertation Award 1998.

I have been a member of the Institute of Electrical and Electronic Engineers (IEEE) since 1991; Senior Member since 2012; and Distinguished Visitor of the IEEE Computer Society from 2018 to 2020.