

Ronan Pardo Soares
Curriculum Vitae

Abril/2010

Ronan Pardo Soares

Curriculum Vitae

Personal Information

Full name Ronan Pardo Soares

Parental information Alberto Melo Soares and Miriam Carmen Pardo Soares

Birth information 13/11/1985 - Fortaleza/CE - Brazil

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Formal Education

- 2008 - 2010** Master's in Computer Science.
Universidade Federal do Ceará, UFC, Fortaleza, Brazil
Title: Procura em Grafos, Year of degree: 2010
Advisor: Cláudia Linhares Sales
Scholarship from : Coordenação de Aperfeiçoamento de Pessoal de Nível Superior
- 2004 - 2007** Bachelor's in Ciência da Computação.
Universidade Federal do Ceará, UFC, Fortaleza, Brazil
- 2001 - 2003** High Education.
Colégio Christus, PX, Brazil
- 1993 - 2000** Primary and Secondary Education.
Colégio Christus, PX, Brazil

Complementary Education

- 2005 - 2005** Short Term Course in Orientação a Objetos com Java.
Centro de Formação Java, CFJ, Brazil
- 1998 - 2002** Curso Regular de Língua Inglesa..
Curso de Línguas Christus, CLC, Brazil

Professional Experience

1. INRIA - Sophia Antipolis - INRIA

Activities

02/2009 - 05/2009 Trainee Job, Mascotte - INRIA - Sophia-Antipolis

Trainee:

Research about Process Number and Processing Time

Areas of Expertise

1. Analysis of Algorithms and Computational Complexity
2. Graph Theory

Languages

English	Understanding Fluent , Speaking Fluent, Writing Fluent, Reading Fluent
Français	Understanding Functional , Speaking Basic, Writing Basic, Reading Functional
Portuguese	Understanding Fluent , Speaking Fluent, Writing Fluent, Reading Fluent

S, T & A Production

Bibliographic Production

Articles published in annals of events (summary)

1. SOARES, R. P., SALES, C. L.
In: XXVI Encontro Universitário de Iniciação à Pesquisa, 2007, Fortaleza.
Anais do XXVI Encontro Universitário de Iniciação à Pesquisa. Fortaleza: UFC, 2007.
2. SOARES, R. P., SALES, C. L.
In: XXV Encontro Universitário de Iniciação à Pesquisa, 2006, Fortaleza.
Anais do XXV Encontro Universitário de Iniciação à Pesquisa. Fortaleza: UFC, 2006.

Events

Participation In Events

1. **Latin-American Algorithms, Graphs and Optimization Symposium**, 2009. (Symposium)
.
2. **The 2nd Workshop on GRaph Searching, Theory and Applications**, 2008. (Workshop)
.
3. **Apresentação Oral in XXVI Encontro Universitário de Iniciação à Pesquisa**, 2007. (Meeting)
.
4. **Presentation of Poster / Painel no(a) XXV Encontro Universitário de Iniciação à Pesquisa**, 2006.

(Meeting)

.

Organization of Events

1. The 2nd Workshop on GRaph Searching, Theory and Applications, 2008. (Workshop)

Total of Production

Bibliographic Production

Articles published in annals of events..... 2

Events

Participation in events (symposium)..... 1
Participation in events (workshop)..... 1
Participation in events (meeting)..... 2

Graduation History

The courses are organized by semesters. The grades are assigned from 0 (the worst) to 10 (the best). A student is approved if his average grade is at least 7, but if a student does not have this grade in the end of the semester, he can be approved by doing a final test and improving his average grade to at least 5.

IRA: 9,027 (similar to GPA – grade point average – with different assignment of weights)

Graduation's course grades:

C.H.A.¹: Credit hours per class.

C.H.L.²: Credit hours per lab class.

F.³: Frequency.

Period	Code	Name	Credit Hours	C.H.A. ¹	C.H.L. ²	Grade	F. ³	Situation
2004/1	CB534	CALCULO DIFERENCIAL E INTEGRAL I	6.0	96.0	-	7,7	99,0%	APROVADO
2004/1	CB537	ALGEBRA LINEAR I	3.0	48.0	-	10	100,0%	APROVADO
2004/1	CB661	MATEMATICA DISCRETA	6.0	96.0	-	9,8	100,0%	APROVADO
2004/1	CK108	FUNDAMENTOS DE PROGRAMACAO	4.0	64.0	-	10	97,0%	APROVADO
2004/1	CK169	CIRCUITOS DIGITAIS	4.0	64.0	-	10	97,0%	APROVADO
2004/2	CB535	CALCULO DIFERENCIAL E INTEGRAL II	6.0	96.0	-	10	93,0%	APROVADO
2004/2	CD201	FISICA GERAL I	6.0	96.0	-	7,7	100,0%	APROVADO
2004/2	CK109	ESTRUTURAS DE DADOS	6.0	96.0	-	8	100,0%	APROVADO
2004/2	CK110	PROGRAMACAO	2.0	32.0	-	9,3	100,0%	APROVADO
2004/2	CK170	TRANSMISSAO DE DADOS	4.0	64.0	-	8,6	97,0%	APROVADO
2005/1	CB515	INTRODUCAO A LOGICA MATEMATICA	6.0	96.0	-	10	98,0%	APROVADO
2005/1	CC261	INTRODUCAO A PROBABILIDADE E A ESTATISTICA	4.0	64.0	-	9	92,0%	APROVADO
2005/1	CK111	ALGORITMOS EM GRAFOS	4.0	64.0	-	8	100,0%	APROVADO
2005/1	CK112	TECNICAS DE PROGRAMACAO I	4.0	64.0	-	7,9	94,0%	APROVADO
2005/1	CK113	ARQUITETURA DE COMPUTADORES I	4.0	64.0	-	9,7	100,0%	APROVADO
2005/1	CK142	REDES NEURAIAS	4.0	64.0	-	9	100,0%	APROVADO
2005/2	CK019	CONSTRUCAO E ANALISE DE ALGORITMOS	6.0	96.0	-	9	100,0%	APROVADO
2005/2	CK047	METODOS NUMERICOS I	4.0	64.0	-	8,7	91,0%	APROVADO
2005/2	CK090	COMPUTACAO GRAFICA I	4.0	64.0	-	9,3	98,0%	APROVADO
2005/2	CK114	FUNDAMENTOS DE BANCOS DE DADOS	6.0	96.0	-	9	100,0%	APROVADO
2005/2	CK115	LINGUAGENS DE PROGRAMACAO I	6.0	96.0	-	9,2	100,0%	APROVADO
2006/1	CC060	PROGRAMACAO LINEAR	6.0	64.0	32.0	9,2	97,92%	APROVADO MEDIA
2006/1	CK048	METODOS NUMERICOS II	4.0	32.0	32.0	10,0	93,75%	APROVADO MEDIA
2006/1	CK061	REDES DE COMPUTADORES	6.0	64.0	32.0	8,6	96,88%	APROVADO MEDIA
2006/1	CK116	ANALISE E PROJETO DE	6.0	96.0	0.0	8,0	91,67%	APROVADO

SISTEMAS							MEDIA
2006/1	CK117	SISTEMAS DE GERENCIAMENTO DE BANCOS DE DADOS	6.0	96.0	0.0	9,1	96,88% APROVADO MEDIA
2006/1	ED056	INTRODUCAO A ADMINISTRACAO	6.0	96.0	0.0	8,5	91,67% APROVADO MEDIA
2006/2	CK031	INTELIGENCIA ARTIFICIAL	6.0	80.0	16.0	8,7	93,75% APROVADO MEDIA
2006/2	CK069	SISTEMAS OPERACIONAIS I	6.0	64.0	32.0	10	96,88% APROVADO MEDIA
2006/2	CK118	AUTOMATOS E LINGUAGENS FORMAIS	4.0	64.0	0.0	8,6	100,0% APROVADO MEDIA
2006/2	CK119	ENGENHARIA DE SOFTWARE	4.0	64.0	0.0	9,5	96,88% APROVADO MEDIA
2006/2	CK137	TOPICOS AVANCADOS EM GRAFOS E ALGORITMOS I	4.0	64.0	0.0	8,7	100,0% APROVADO MEDIA
2006/2	CK157	TOPICOS AVANCADOS EM MATEMATICA COMPUTACIONAL I	4.0	64.0	0.0	9,5	100,0% APROVADO MEDIA
2007/1	CK017	CONSTRUCAO DE COMPILADORES I	6.0	64.0	32.0	9,0	97,92% APROVADO MEDIA
2007/1	CK101	TEORIA DA COMPUTACAO	6.0	96.0	0.0	9,0	97,92% APROVADO MEDIA
2007/1	CK120	INFORMATICA E SOCIEDADE	4.0	64.0	0.0	9	100,0% APROVADO MEDIA
2007/1	CK143	SISTEMAS MULTIMIDIA	4.0	64.0	0.0	10,0	90,62% APROVADO MEDIA
2007/1	CK158	TOPICOS AVANCADOS EM REDES DE COMPUTADORES	4.0	64.0	0.0	8,8	93,75% APROVADO MEDIA
2007/2	CB507	ESTRUTURAS ALGEBRICAS	6.0	96.0	0.0	6,8	89,58% APROVADO
2007/2	CB536	CALCULO DIFERENCIAL E INTEGRAL III	6.0	96.0	0.0	8	100,0% APROVADO MEDIA
2007/2	CK125	TEORIA DOS GRAFOS	4.0	64.0	0.0	9,2	100,0% APROVADO MEDIA
2007/2	CK165	ANALISE E PROJETO DE SISTEMAS ORIENTADOS A OBJETOS	4.0	64.0	0.0	9,0	96,88% APROVADO MEDIA

Master Course Grades History

The courses are organized by semesters. The grades are assigned from 0 (the worst) to 10 (the best). A student is approved if his average grade is at least 7, but if a student does not have this grade in the end of the semester, he can be approved by doing a final test and improving his average grade to at least 5.

Grade's Average: 9,5

C.H.A.¹: Credit hours per class.

C.H.L.²: Credit hours per lab class.

F.³: Frequency.

Period	Code	Name	Credit Hours	C.H.A. ¹	C.H.L. ²	Grade	F. ³	Situação
2008/1	CKP746	PROBABILIDADE E PROCESSOS ESTOCASTICOS	4.0	60.0	0.0	9,0	100,00%	APROVADO
2008/1	CKP812	ALGEBRA LINEAR COMPUTACIONAL	4.0	60.0	0.0	10,0	100,00%	APROVADO MEDIA
2008/1	CKP825	DECOMPOSICOES DE GRAFOS	4.0	60.0	0.0	9,0	100,00%	APROVADO MEDIA
2008/2	CKP758	COMPUTACAO DE ALTO DESEMPENHO	4.0	60.0	0.0	9	100,00%	APROVADO MEDIA
2008/2	CKP809	ALGORITMOS APROXIMATIVOS	4.0	60.0	0.0	10,0	100,00%	APROVADO MEDIA
2008/2	CKP845	TOPICOS ESPECIAIS EM TEORIA DOS GRAFOS	4.0	60.0	0.0	10	100,00%	APROVADO MEDIA
2009/1	CKP699	ESTAGIO DE DOCENCIA EM COMPUTACAO I	2.0	30.0	0.0	SAT	100,00%	APROVADO
2009/1	CKP799	DISSERTACAO	6.0	90.0	0.0	INC	100,00%	INCONCLUIDO
2009/2	CKP799	DISSERTACAO	6.0	90.0	0.0	SAT	100,00%	APROVADO

Número Comprovante: **F173B291.28B45E35.67F8D039.A3D470FE**

Emitido em: **27/04/2010 às 14:10:23**

Motivation Letter

Thesis: Routing reconfiguration in WDM networks

Research is something that I am doing since college and that I really enjoy. During my undergraduate years, I started researching, with the help of my advisor, Profa. Dr. Cláudia Linhares Sales, flow in graphs, latter changing to graph coloring and, in the last year of college, to graph searching. During my Master in Science course, also advised by Profa. Dr. Cláudia Linhares Sales, I kept studying graph searching in the first year. In the second year, I did a three month internship in INRIA Sophia-Antipolis, where I started to work on process number (a problem related to routing reconfiguration). This research became an important part of my Master in Science dissertation.

I am strongly interested in the rerouting problem as well and how it can be applied to create solutions for some telecommunication problems. I feel comfortable to apply to this PhD program, because one of the two main problems I worked on in my Master Science dissertation was equivalent to routing reconfiguration in WDM networks. In that problem, I was interested in determining the process number of a graph. If the graph is a dependence graph of two routing configurations in a WDM network, then its process number is the minimum number of simultaneous interruptions needed to switch between these two configurations.

In my Master in Science dissertation, I focused more on the tradeoff between the number of agents (simultaneous interruptions) of a graph and the number of steps required to process the graph. The number of steps can be seen as the total duration of the reconfiguration. I've proved, in that work, that the process number problem, when there is a restriction to the number of steps it takes to process the graph, is NP-Complete. I've also obtained some other results and polynomial algorithms for some special graph topologies such as DAGs, disjoint directed paths. I think that I have acquired a very good background and I feel capable to start a deep research on the proposed theme.

I would like to finish by this letter by saying some words about the period of my internship. During my internship, I've experienced a concrete personal and professional growth. I've appreciated the Mascotte Team ambiance, their hospitality and I was very impressed with their competences. Therefore, I have no doubts that we will get along fine with, and feel prepared and I'm looking forward to start to work with them soon.

Ronan Pardo Soares.