



# PhD Program in Electrical and Computer Engineering

Report Year **13**

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# TABLE OF CONTENTS

<b>1. BRIEF HISTORY</b>	<b>4</b>
<b>2. ORGANIZATIONAL STRUCTURE</b>	<b>7</b>
<b>3. CANDIDATES ACCEPTED IN 2020/2021</b>	<b>8</b>
<b>4. CURRICULUM STRUCTURE</b>	<b>10</b>
4.1 Modus operandi	10
4.2 Edition of 2008/2009	17
4.3 Edition of 2009/2010	17
4.4 Edition of 2010/2011	18
4.5 Edition of 2011/2012	19
4.6 Edition of 2012/2013	20
4.7 Edition of 2013/2014	20
4.8 Edition of 2014/2015	21
4.9 Edition of 2015/2016	21
4.10 Edition of 2016/2017	22
4.11 Edition of 2017/2018	22
4.12 Edition of 2018/2019	23
4.13 Edition of 2019/2020	23
4.14 Edition of 2020/2021	24
<b>5. FINISHED THESES IN 2020 AND AWARDS</b>	<b>25</b>
<b>6. SUPERVISION AND MONITORING</b>	<b>27</b>
6.1 Supervisors, TACs, and research topics	27
6.2 Annual Progress Reports	38
<b>7. CONDITIONS FOR PhD SUPERVISION</b>	<b>45</b>
<b>8. CANDIDATES 2021/2022</b>	<b>46</b>
8.1 Applicants	46
8.2 Assistance to foreign students	46
<b>9. CONCLUDING REMARKS</b>	<b>48</b>

# 1. BRIEF HISTORY

## Editions:

The PhD Program in Electrical and Computer Engineering in its current format, which is adapted to the Bologna model, started in the academic year of 2008/2009. It is now starting its 14th edition.

The inaugural sessions of previous editions took place on:

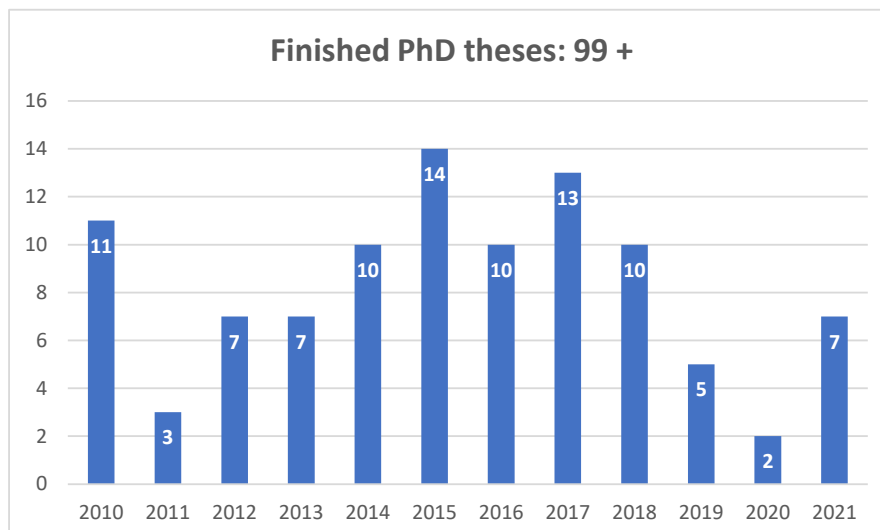
- 1st edition: 17 Nov 2008.
- 2nd edition: 25 Nov 2009.
- 3rd edition: 16 Dec 2010.
- 4th edition: 9 Jan 2012.
- 5th edition: 14 Jan 2013.
- 6th edition: 6 Jan 2014.
- 7th edition: 6 Jan 2015.
- 8<sup>th</sup> edition: 15 Jan 2016.
- 9<sup>th</sup> edition: 16 Jan 2017.
- 10<sup>th</sup> edition: 22 Jan 2018.
- 11<sup>th</sup> edition: 21 Jan 2019.
- 12<sup>th</sup> edition: 10 Feb 2020.
- 13<sup>th</sup> edition: 11 Jan 2021.

The edition of 2021/2022 (**14th edition**) is scheduled to start on 10 January 2022.

As some candidates usually took a long time to formalize their enrolment in the Academic Office (e.g., in some cases they had to wait for the defense of the MSc thesis, others had to wait for VISA to Portugal), it was not possible to start the formal activities earlier. Nevertheless, some preparatory activities (e.g., Advanced Topics courses), which have a tutorial nature started for some students in the last quarter of 2021.

## Results:

During last years, the following number of theses have been concluded:

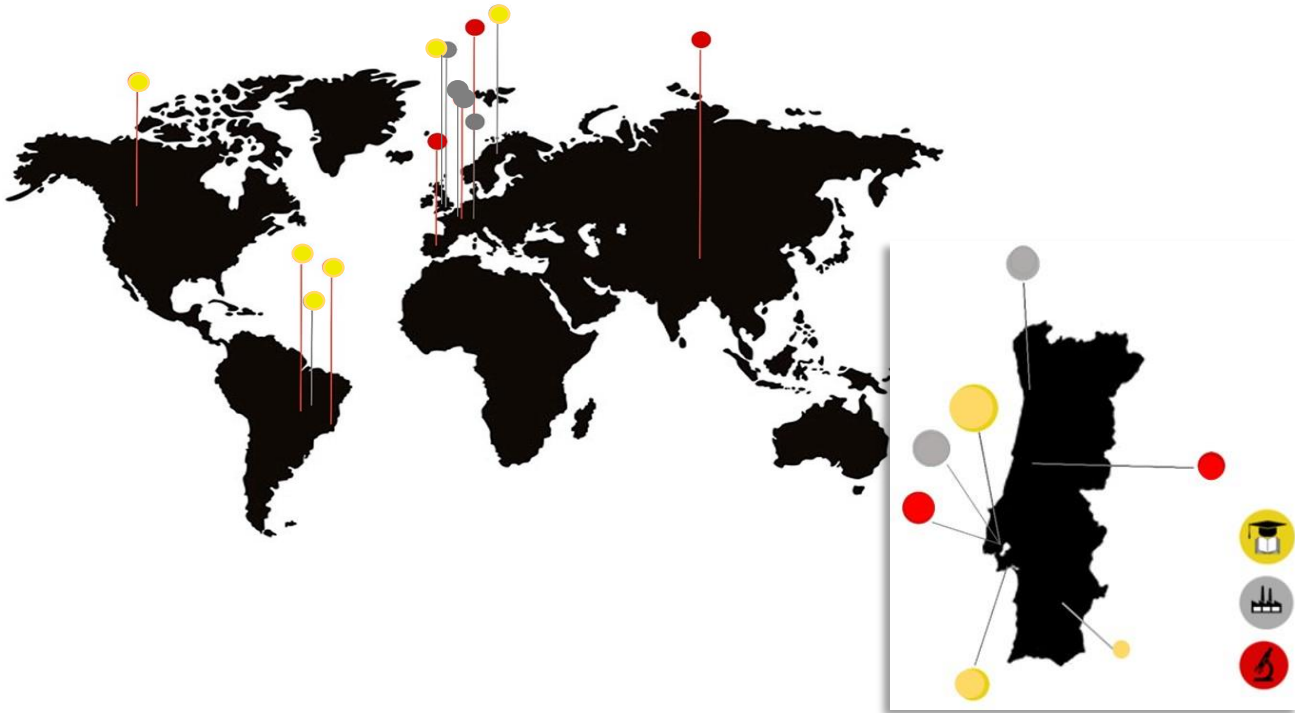


### Placement:

The graduates of last decade (GOLD) are all employed, with the following distribution:

- Academia: 54.7%
- Research institutes: 20%
- Industry: 25.3%

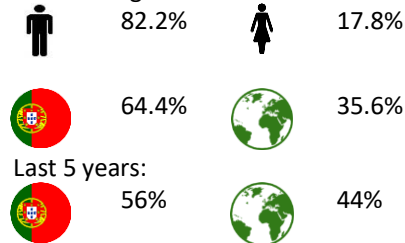
In terms of geographical location, they are working in different parts of the world:



### Current demographics:

In terms of **current students**, the following demographics apply:

Gender & origin distribution



In recent years there is a fast increase in the number of foreign students. This number could be even higher if the visa and procedures of SEF (Service of Foreigners and Borders) were less complex and less time demanding.

### Current number of students:

Total number of registered students as of Dec 2021: **128**

- Active students: **70**
- Suspended for lack of payment of tuition fee: 37  
(most of them active)
  - Active + Suspended for no payment: **107**
- Suspended for other reasons: 21

## 2. ORGANIZATIONAL STRUCTURE

### Coordinator:

- Prof. Dr. Luis M. Camarinha-Matos

### Scientific Committee of PDEEC:

- Chair: Prof. Dr. Luis M. Camarinha-Matos
- Members: Prof.s Dr.s Rui Neves da Silva, José Barata Oliveira, João Martins, João Goes, Ricardo Gonçalves, Rui Dinis

### Secretarial support:

- Cristina Silva / Paula Simão

### Financial officer:

- Prof. Dr. Ana Inês Oliveira

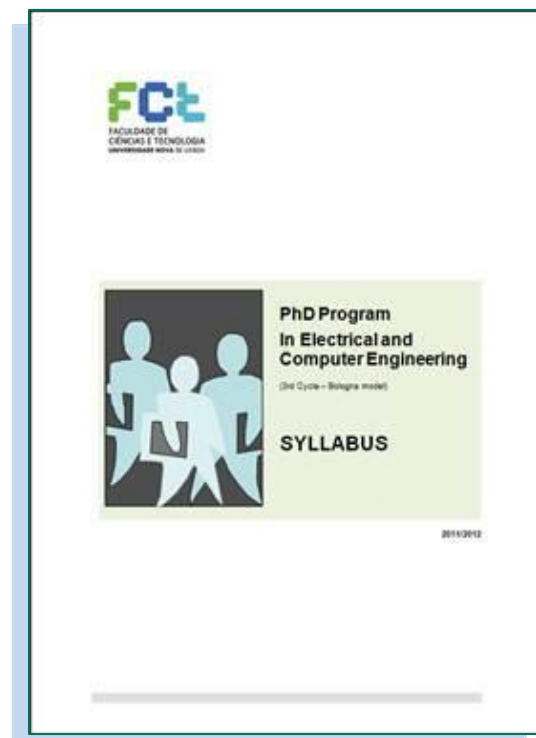
### Site:

In order to both support dissemination of the program and provide a repository of information for the students, there is a specific site:

<http://sites.fct.unl.pt/pdeec>

Complementarily, two main reports provide base information on the program contents: Guide of the PhD Program (in Portuguese and English) and *Syllabus* (in English).

The screenshot shows the website for the PhD in Electrical and Computer Engineering. It includes a navigation menu on the left, a search bar, and a 'Latest Announcements' section. The 'Specialization areas' section features a hexagonal diagram with the following categories: Enterprise Collaborative Networks, Industry Information Systems, Robotics and Integrated Manufacturing, Control and Decision, Computational and Perceptual Systems, Signal Processing, Telecommunications, Electronics, and Energy.



# 3. CANDIDATES ACCEPTED IN 2020/2021

Regarding the 13th edition of PDEEC, there were **48** candidates. After the selection process, **31** candidates were accepted by the Scientific Committee, out of which **21** formalized their enrolment.

Taking into account the analysis of the candidates' CV the following individual study plans were established:

Table 1 – PhD students enrolled in the 13th edition of the program

Nº	Name	SRMT	EM	DC	RP	FO	AT cd	AT el	AT en	AT sp	AT cn	AT rim	AT cps	AT iis	AT tel	Specialization
61395	Azad Bahmani															?
59359	Behnam Johari															?
61255	Behrooz Saeidi															Enterprise Collaborative Networks
61120	Carolina Rosario Coelho Xavier de Carvalho															Control and Decision
59433	Daniel Gonçalves Pita Santos de Almeida															Electronics
61248	David Barros Leonardo															Electronics
61247	Diogo Filipe Cardoso Pereira															Telecommunications
61144	Fábio Rafael Martins de Oliveira															Robotics and Integrated Manufacturing
59389	Florindo Miguel de Matos Canas															Energy
61139	João Falé de Carvalho Madeira															Telecommunications
61206	Jorge Miguel da Silva Calado															Industry Information Systems
61257	Leandro Henrique Monteiro Filipe															Robotics and Integrated Manufacturing
61117	Luís Carlos Guimarães Lourenço															Industry Information Systems
61251	Miguel Alexandre Gonçalves Lourenço															?
61214	Rafael Joaquim Oliveira Rodrigues															Computational and Perceptual Systems
61106	Raquel Alexandra Abrantes Melo															Industry Information Systems
61204	Sepideh Kalateh Seifari															Robotics and Integrated Manufacturing
61283	Seyed Masoud Ardestani															Energy
59335	Shuai Liu															Computational and Perceptual Systems
61124	TERRIN BABU POLIKOTTIL															Robotics and Integrated Manufacturing
61217	Walid Gaïoui															?

Equivalence   
To be done 

In terms of geographical origin, the **candidates** had the following distribution:

- Algeria: 2
- Angola: 4
- Brazil: 2
- China: 1



- Estonia: 1
- Etiopia: 1
- India: 2
- Iran: 8
- Italy: 3
- Morocco: 1
- Pakistan: 2
- Portugal: 18
- Turkey: 1

Among the **enrolled** students, we have:

- Algeria: 1
- China: 1
- India: 1
- Iran: 5
- Portugal: 13

Some of the accepted candidates did not formalize their enrolment, either due to economic problems or difficulty in getting visa to Portugal. Our Embassies / SEF continue creating strong obstacles to the attraction of foreign students.

## 4. CURRICULUM STRUCTURE

### 4.1 Modus operandi

Like previous editions and considering the number of registered students for each course, some courses included formal lectures, while others were organized as self-study units (individual guided studies and interaction with professors assigned to each topic).

#### Courses with formal lectures

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Lectures were organized in a concentrated mode (daily from 14:00 to 18:00) during a period between the 1st and 2nd semesters.

Like previous editions, all lectures were offered in English.

#### *Scientific Research Methodologies and Techniques*

This course included 30 h (14 modules + projects' presentation) lectured during Jan 2021.

This course is a fundamental element to let students acquire a “scientific research culture” and to learn how to organize their research work. Received feedback from students continues to be very positive.

Supporting materials are available at:

<https://sites.google.com/a/uninova.pt/cam/teaching/srmt>



A total of **16** students concluded this course in 2021 (average grade 14.69 in 20).

The course was mostly lectured by Prof. Camarinha-Matos, with a partial contribution of Prof.s Ricardo Gonçalves, Rui Neves-Silva and João Goes in module 14 (Project Proposals Preparation) and corresponding evaluation.

#### *Entrepreneurship Methods*

A total of 23 students were registered for this course this year. This course included 30 h lectured during Feb-Mar 2021, by staff of FCT-NOVA (J. Barata, L. M. Camarinha-Matos, J. Silva Lopes, A. Brandão Moniz, Ana R. Gonçalves) and external invited experts (J. Jassbi, S. Nikghadam, M. Cerejo, R. Caldeira, D. Horta e Costa).



A total of **17** students concluded this course in 2021 (average grade 14.82 in 20).

### Doctoral Conference

Due to the specific nature of this course, it has a mixed structure: a few plenary lectures for the introduction of the main concepts and principles, followed by parallel working groups focused on the various specific aspects of the organization of an international conference.

With reference to the **12th edition**, the activities of this course started in Oct 2020 and ended in July 2021 (the conference was held on 7-9 Jul 2021).

Like previous editions, the conference had an international scope and was technically co-sponsored by 3 international societies:

- SOCOLNET – Society of Collaborative Networks
- IFIP – International Federation for Information Processing, WG 5.5
- IEEE, Industrial Electronics Society.

The conference proceedings continued to be published by Springer, under the IFIP AICT (Advances in ICT) series (indexed in **Web of Science, SCOPUS and DBLP**).

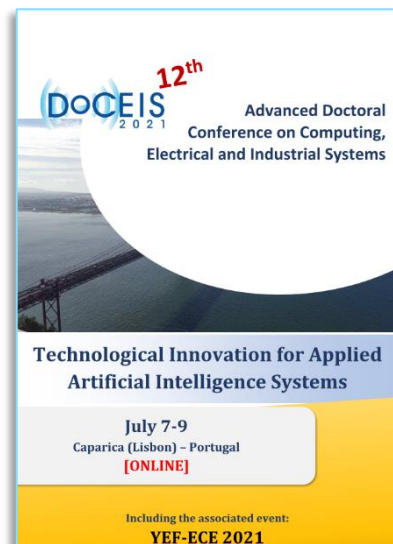
Due to COVID-19 pandemic the conference was organized **online** through the ZOOM platform.



The general theme of the 2021 edition was "**Technological Innovation for Applied AI Systems**".

For the 12th edition a total of **64** submissions from **14** countries were received. This included the following authors per country:

- Brazil – 5
- China – 2
- Germany – 2
- Ghana – 1
- Hungary – 6
- India - 1
- Iraq – 8
- Jordan – 1
- Poland - 2
- Portugal – 95
- Spain – 9
- Sweden - 3
- Ukraine – 1
- UK - 6



After double blinded peer reviewing, the International Program Committee accepted 34 papers (22 as full papers, 12 as shorter papers) for inclusion in the conference program. Among these, **11** papers were contributed by PDEEC.

A special collaboration was established with the PhD Program in Biomedical Engineering of FCT-NOVA, which organized a special session.



## TECHNOLOGICAL INNOVATION FOR APPLIED ARTIFICIAL INTELLIGENCE SYSTEMS

In addition to the presentations of technical papers, the conference also included:

- 3 invited keynotes:
  - Social Robots in the Real World: Current Challenges and Future Directions - Prof. Iolanda Leite, KTH Royal Institute of Technology, Sweden.
  - Location privacy from a statistical perspective - Dr. George Theodorakopoulos, Cardiff University, UK
  - Trusting AI: helping AI make the right decisions and fighting the bad bias – Prof. Milos Manic, Virginia Commonwealth University, USA
  
- 1 Panel: “My Research and Applied AI Systems”
  - Ana Paiva – IST
  - Luis Paulo Reis – FEUP
  - Nuno Fachada – U Lusofona
  - Miguel Cabrita – Enlightenment.AI

Co-located with DoCEIS 2021, and similar to previous year, another event was organized:

### YEF-ECE 2021

#### 5th International Young Engineers Forum on Electrical and Computer Engineering

This event was dedicated to young engineers to present results of their MSc theses or early career projects.

A total of **23** papers (out of 40 submissions) were accepted by the International Program Committee.

The proceedings were published by IEEE Xplore and also indexed in Web of Science and SCOPUS.





Like previous years, this edition was highly successful, according to received feedback from the participants,



Despite being organized online due to COVID-19, all sessions had a very good number of attendants.



The organization of YEF-ECE was quite successful, as a 4th edition, and contributed to increase the number of participants.



Only **2** students completed this course in 2021 (average grade: 13 in 20). Several of the registered students still need to deliver some evaluation elements (to be completed in the next edition).



Regarding the various editions of DoCEIS, in addition to the books sold worldwide by Springer, the electronic version of the papers is having a **large number of downloads**:

Data provided by Springer (as of Dec 2021, <https://link.springer.com/conference/doceis>):

Edition	Chapter downloads	Since	Proceedings book
DoCEIS'10	<b>159 K</b>	April 2010	Emerging Trends in Technological Innovation
DoCEIS'11	<b>154 K</b>	April 2011	Technological Innovation for Sustainability
DoCEIS'12	<b>111 K</b>	April 2012	Technological Innovation for Value Creation
DoCEIS'13	<b>258 K</b>	April 2013	Technological Innovation for the Internet of Thing
DoCEIS'14	<b>127 K</b>	April 2014	Technological Innovation for Collective Awareness Systems
DoCEIS'15	<b>93 K</b>	April 2015	Technological Innovation for Cloud-based Engineering Systems
DoCEIS'16	<b>94 K</b>	April 2016	Technological Innovation for Cyber-Physical Systems
DoCEIS'17	<b>52 K</b>	May 2017	Technological Innovation for Smart Systems
DoCEIS'18	<b>17 K</b>	May 2018	Technological Innovation for Resilient Systems
DoCEIS'19	<b>17 K</b>	May 2019	Technological Innovation for Industry and Service Systems
DoCEIS'20	<b>23 K</b>	July 2020	Technological Innovation for Life Improvement
DoCEIS'21	<b>5.8 K</b>	July 2021	Technological Innovation for Applied AI Systems

The **13th edition** of the conference - **DoCEIS'22** – started to be prepared in Oct 2021, and it shall take place in Caparica, on 29 Jun-1 Jul 2022.

The theme chosen for this edition is:

**"Technological Innovation for Digitalization and Virtualization".**

This edition is coordinated by Prof.s L.M. Camarinha-Matos (*Conference chairman*), L. Gomes (*Organization chairman*), P. Pereira (*Associated activities chairman*), and J. Goes (*Financial chairman*).

For this edition, we are in the process of receiving submissions.



**DoCEIS 2022**

HOME GENERAL AUTHORS

**13<sup>th</sup> Advanced Doctoral Conference On Computing, Electrical And Industrial Systems**

29 Jun - 1 Jul 2022  
Caparica, Portugal

Call For Papers Submit Your Paper

## Technological Innovation For Digitalization And Virtualization

The Advanced Doctoral Conference on Computing, Electrical and Industrial Systems is celebrating its 13th edition (DoCEIS 2022) with a focus on Technological Innovation for Digitalization and Virtualization.

The ongoing 4th industrial revolution is characterized by an intense digitalization and digital transformation of all sectors of society. This encompasses the adoption and integration of a variety of new information and communication technologies for the development of more efficient, flexible, agile, and sustainable solutions. On the other hand, the recent pandemic forced millions of people to work or study from their homes, which created an immediate challenge for the organizations that were not prepared for this scenario. This led to a fast virtualization of the interactions and work environment. As a result, to effectively support digitalization and virtualization many different knowledge areas are coming together leading to the creation of various innovative technologies and tools, while also motivating new research directions.

DoCEIS 2022 will target Digitalization and Virtualization, providing a forum where Doctoral Students, Researchers, and Academicians have the opportunity to share and discuss their work and ideas in a multidisciplinary context, while creating collaborative opportunities for future work and research

The proceedings are also expected to be published as a book by Springer, under the AICT series.

The conference site is available at: <http://doceis.dee.fct.unl.pt/>

Like in previous years, the 5<sup>th</sup> YEF-ECE forum is also being organized as an associated event:

<http://sites.uninova.pt/yef-ece>

The proceedings are also expected to be published by IEEE Xplore.

Home	<b>YEF-ECE 2022 - 6th International Young Engineers Forum on Electrical and Computer Engineering</b>
Conference Announcement	Following the success of the previous editions we are proud to announce the organization of the 2022 International Young Engineers Forum on Electrical and Computer Engineering - YEF-ECE 2022.
Conference Committees	Accepted papers will be submitted for inclusion into IEEE Xplore subject to meeting IEEE Xplore's scope and quality requirements. Papers from previous editions are available on the IEEE Xplore digital library.
Call for Papers	The <b>International Young Engineers Forum</b> looks for the latest developments and innovative applications in electrical and computer engineering, dealing with systems' design and utilization, looking forward to efficient devices and systems with appropriate control algorithms to meet the needs of business and industry in a global economy. This event will be a unique opportunity for young engineers to connect with each other enabling experience's sharing and to become internationally active.
Important Dates	
Paper Submission	
Previous Edition	YEF-ECE 2022 will be co-located with the doctoral conference <b>DoCEIS 2022</b> ( <a href="http://doceis.dee.fct.unl.pt/">http://doceis.dee.fct.unl.pt/</a> ) giving participants the opportunity to attend both events on the same day. The Conference will be held in Caparica (Lisbon region), PORTUGAL.
Contacts	<b>Organizational Co-Sponsorship:</b>
	<b>Technical Sponsorship:</b>

### Free Option

Since this is a course that can be freely selected from any other courses offered by FCT at the PhD level or courses offered by NOVA Doctoral School, students are typically integrated in those courses and follow the normal program and evaluation rules of those courses.

### Courses organized in a self-study / tutorial modality

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This group includes the courses:

- Advanced Topics (9 options, to select one according to the specialization area)
- Research planning (leading to the Thesis Plan).

### Advanced Topics

Regarding these courses, students are supposed to follow an individual study plan according to the list of selected topics for each specialization area (as described in the *Syllabus* of PDEEC) and interact with the professors in charge of those topics (also indicated in the *Syllabus*).

Some of these courses continue with some delays, as students do not have to follow a strict schedule. This situation also affects the progress on the Research Planning course.



**In this area it is necessary to have a more active involvement of the professors associated to each topic in order to guarantee a more effective and timely progress.**

### Research Planning

This “course” is equivalent to a workload of one semester full time and involves the identification of the research question(s) and hypothesis(es), study and synthesis of the state of the art, and elaboration of the research plan. This work needs to be developed by the student in close interaction with the supervisor. The result should be a **Thesis Plan** to be discussed with the Thesis Accompanying Committee in a public seminar.



Only **7** students completed this course in 2021 (average grade: 18.28 in 20). This number is very limited, considering the number of registered students.

According to the PhD Program Regulations, the PhD students have up to 24 months to submit the report and apply for this public discussion (which, in principle, should happen between month 12 and month 24).



**However, most students continue taking too long to finish their plans. The supervisors have a relevant role in this process. Only with a continuous monitoring and support from the supervisor it will be possible to reduce the traditionally excessive time spent with this activity.**

The limit of 24 months should be an exception and not the norm. The desirable norm should be to finish all courses in 12 months (except for students in part-time).



**Unfortunately, we have observed that some supervisors are not performing the expected supervision in this area, resulting in considerable delays.**

**Some supervisors also guide their students to include substantial research results in the Thesis Plan, which is not the intention for such Plan and has the negative consequence of leading to excessive delays.**

TACs are now being asked to not focus on research results but rather on the key components expected in a thesis plan.



**The Thesis Accompanying Committees (TACs) have been playing an important role in the improvement of the quality of the PhD research work. There are, however, a few cases in which the TAC assessment reports are too short and thus not providing useful guidance to the student. This situation needs to be improved.**



**In some areas there is an excessive repetition of the same names in the TACs of those areas. Although it might be difficult to find additional experts for some topics, it is necessary to diversify the composition of the TACs in order to guarantee the necessary independent assessment. As such, supervisors are asked to make an effort in this direction.**



## 4.2 Edition of 2008/2009

Situation of the PhD students enrolled in 2008/2009 regarding the courses component:

Nº	Name	MTIC	ME	CD	PI	OL	TAcd	TAel	TAen	TAps	TArc	TArcmi	TAscp	TAsii	TAtel	Graduated
30064		Green	Green	Green	Green	Green					Green					2016
30074	Artur Manuel de Melo Gonçalves	Green	Green	Green	Green	Green								Green		2012
30069		Green	Green	Green	Green	Green			Green							2015
29760	David Duarte Pereira Lopes	Green	Green	Green	Green	Green			Green							2014
30068		Green	Green	Green	Green	Green			Green							2015
30065		Green	Green	Green	Green	Green					Green					2017
29588		Green	Green	Green	Green	Green	Green									2015
30073		Green	Green	Green	Green	Green								Green		2013
29586		Green	Green	Green	Green	Green			Green							2018
30070		Green	Green	Green	Green	Green							Green			Suspended p
30063		Green	Green	Green	Green	Green							Green			Suspended
30066	Luís Domingos Ribeiro	Green	Green	Green	Green	Green										2012
30004		Green	Green	Green	Green	Green						Green				Suspended p
29770		Green	Green	Green	Green	Green	Green									2015
30067	Artur Manuel Ribeiro Pereira	Green	Green	Green	Green	Green		Green								2013
30137		Green	Green	Green	Green	Green				Green						2011
29768	David Duarte Pereira Lopes	Green	Green	Green	Green	Green								Green		2014
30072		Green	Green	Green	Green	Green							Green			2017
30040	Trigo José Monteiro Baptista Cabral Pereira	Green	Green	Green	Green	Green							Green			Suspended p

	Finished course		Waiting for public defense
	Got equivalence		Course not yet finished (delayed)

Note: PhD students that have quit were removed from this table.



**15** students finished their theses till now.



Even considering that most of the remaining ones are part-time students, they should have finished long ago.  
One student has not yet (officially) finished all courses! He probably quit but did not formalize it yet.

Some students are **suspended**, probably because they have not yet paid the annual fee. It might even be the case that they quit but did not formalize their withdrawal from the program.

## 4.3 Edition of 2009/2010

Situation of the PhD students enrolled in 2009/2010 regarding the courses component:

Nº	Name	MTIC	ME	CD	PI	OL	TAcd	TAel	TAen	TAps	TArc	TArcmi	TAscp	TAsii	TAtel	Graduated
33253	Isabelinha Figueira Fernandes (a)	Green	Green	Green	Green	Green										2010
32555	Anabela Monteiro Gonçalves Pinto (a)	Green	Green	Green	Green	Green			Green							2010
33254		Green	Green	Green	Green	Green										2015
32618		Green	Green	Green	Green	Green		Green								2011
32608	Edina Sousa	Green	Green	Green	Green	Green		Green								2014
33224		Green	Green	Green	Green	Green										Suspended p
33490		Green	Green	Green	Green	Green					Green					Suspended
32678	Elana Silveira Falcão	Green	Green	Green	Green	Green										2018
33249		Green	Green	Green	Green	Green							Green			2017
32574	Elisavete Gonçalves Marques	Green	Green	Green	Green	Green							Green			2014
33270	Francisco José Dinis de Sousa Fernandes Coimbra	Green	Green	Green	Green	Green									Green	2014
32552	Francisco Manuel Gonçalves de Almeida	Green	Green	Green	Green	Green	Green	Green	Green							Suspended
32571	Gonçalo Moreira Candeias (a)	Green	Green	Green	Green	Green			Green							2013
32725		Green	Green	Green	Green	Green		Green								Suspended p
32590	Guilherme Duarte Gonçalves Coimbra	Green	Green	Green	Green	Green			Green							2015
32697		Green	Green	Green	Green	Green										Suspended p
32734	Ilma Patrícia Almeida	Green	Green	Green	Green	Green			Green							2010
33572		Green	Green	Green	Green	Green			Green							2016
33271	José Manuel Ferreira Pedro Marques Lages	Green	Green	Green	Green	Green									Green	2014
32606		Green	Green	Green	Green	Green									Green	2011



Equivalence			Finished course
			Course not yet finished (delayed)

- (a) Entered in the 2nd phase
- (b) Student from pre-Bologna program (does not have to do the courses part)



10 students finished their theses till now.



Also, in this edition there are unacceptable **major delays** regarding the conclusion of some courses.

**Since these cases coincide with students that are suspended, it is likely that they have quit but did not formalize the withdrawal yet.**



In the case a thesis plan is not available yet (5 suspended students), the TACs and supervisors should assess whether the student has the capacity to continue or not; or if the supervisors are able to guide these students. **It is not acceptable that after 11 years there is no thesis plan yet (even if some of them are part-time students).** One of them has finish the thesis plan but the grade is not registered yet because of lack of payment of tuition fee.

### 4.5 Edition of 2011/2012

Situation of the PhD students enrolled in 2011/2012 regarding the courses component:

Nº	Name	MTIC	ME	CD	PI	OL	TAcad	TAel	TAen	TAps	TArc	TArmi	TAscsp	TAsii	TAtel	Graduated
38744																2013
38070																2015
38345																2015
38346																2017
38996					N											
38876																
38050																2014
38690																2016
38980					N											Suspended
38728																2015
38972																2012
38691					N	N			N							Suspended
38049																Suspended
38184																2016
37772																2014
38063					N	N										

Equivalence			Finished course
			Course not yet finished (delayed)

- (a) Student from pre-Bologna program (does not have to do the courses part)
- (b) Entered in the 2nd phase
- (c) Self-supervised



10 students of this edition have finished their theses till now.



Also, in this edition there are **major delays** regarding the conclusion of some courses. **It is necessary that both the supervisors and the TACs more carefully check what is happening with the courses not finished yet.**



**In the case a thesis plan is not available yet (1 active and 3 suspended students), the TACs and supervisors should assess whether the student has the capacity to continue or not; or if the supervisors are able to guide these students. It is not acceptable that after 10 years there is no thesis plan yet (even if some of them are part-time students).**

### 4.6 Edition of 2012/2013

Situation of the PhD students enrolled in 2012/2013 regarding the courses component:

N°	Name	MTIC	ME	CD	PI	OL	TAcad	TAel	TAen	TAps	TArc	TArmi	TAsc	TAsii	TAtel	Graduated
41203																2018
41185	Antonio Eduardo Carreiro Puntado															2017
40964																2016
41116	Eduardo Jose Resende Ortuoguin															2017
41189																2021
41159	Handreza Telue Joe Pomish Tusi	N	N	N	N	N										Suspended p
41192																2017
41071	Joao Francisco Martinho Lado Guerreiro															2016
40662					N	N			N							Suspended
41199	Nuno Manuel Gonçalves Vilhena															
41200																2017
41430	Luís André Martins Mendonça				N											Suspended p
41198																2017
41507	Isabela Tomé															2017

Equivalence  Finished course   
 Course not yet finished (delayed) 



10 students of this edition finished their theses.



Also, in this edition there are **major delays** regarding the conclusion of some courses. **It is necessary that both the supervisors and the TACs more carefully check what is happening with the courses not finished yet.**



**In the case a thesis plan is not available yet (3 students), the TACs and supervisors should assess whether the student has the capacity to continue or not; or if the supervisors are able to guide these students. It is not acceptable that after 9 years there is no thesis plan yet (even if some of them are part-time students).**

### 4.7 Edition of 2013/2014

Situation of the PhD students enrolled in 2013/2014 regarding the courses component:

N°	Name	MTIC	ME	CD	PI	OL	TAcad	TAel	TAen	TAps	TArc	TArmi	TAsc	TAsii	TAtel	Graduated
43945	André Dionísio Bettencourt da Silva Rocha															2018
44429	Luís Filipe de Sousa Mendes de Almeida															2020
43962	Rita Maria Marcelino de Jesus				N											
43621	Luís Filipe de Sousa Mendes de Almeida				N	N						N				Suspended
43984	Frederico Joao Gonçalves dos Santos Branco Martins	N	N	N	N	N			N							Suspended p
43619	Luís Filipe de Sousa Mendes de Almeida				N	N						N				Suspended
44089	Kevin Pierre Nagorny															
43582	Francisco João Tomás Lobo Viana															2020
44126	Mário Rui Monteiro Marques															2018
44154	Luís Filipe de Sousa Mendes de Almeida															2019
44173	Diogo Andreia Dalhosen da															2019

Equivalence  Ongoing  Finished course   
 Course not yet finished (delayed)

(a) Entered in the 2nd phase



6 students of this edition finished their theses.



Also, in this edition there are major delays regarding the conclusion of some courses. It is necessary that both the supervisors and the TACs more carefully check what is happening with the courses not finished yet.



Even if some students are part-time students, by now all courses should have been completed and the Thesis Plan should be available.  
**It is necessary that the supervisors check the situation.**  
**It looks like that in several cases the supervisors are guiding the students to invest on the research activities before having a research plan approved, a situation that needs to be fixed!**

One student (43984) has quit but did not formalize the withdrawal yet.

One student (44089) submitted the thesis and is waiting for the viva.

## 4.8 Edition of 2014/2015

Situation of the PhD students enrolled in 2014/2015 regarding the courses component:

Nº	Name	MTIC	ME	CD	PI	OL	TAcd	TAel	TAen	TAps	TArc	TArmi	TAscsp	TAsii	TAtel	Graduated
46574	Ana Paula Pinto Correia															
46657					N	N						N				Suspended
46416	Antonio Jorge Teixeira Falcão			N	N	N								N		Suspended
46560																
46316	Luís Alexandre Moçoquinha															2021
46533				N	N	N	N									Suspended p
46471	Luís Miguel Martins Fernandes															Suspended p
46575				N	N	N									N	Suspended
46581	Luís Miguel Martins Fernandes															2021
46678																
46651	Luís Miguel Martins Fernandes															2018
46324																Suspended p



3 students of this edition finished their theses.



4 students have not finished all courses! All courses should have been finished long ago. In fact, some of them progressed very little during this year.  
**It is necessary that the supervisors check the situation.**  
**It looks like that also in this edition, some supervisors continue guiding the students to invest on the research activities before having a research plan approved, a situation that needs to be fixed!**

The situation with some suspended students is unclear.

## 4.9 Edition of 2015/2016

Situation of the PhD students enrolled in 2015/2016 regarding the courses component:

Nº	Name	MTIC	ME	CD	PI	OL	TAcd	TAel	TAen	TAps	TArc	TArmi	TAscsp	TAsii	TAtel	Graduated
48978	Antonio Manuel Alves Ferreira (a)															Suspended P
49139	Antonio Manuel Alves Ferreira (a)															2016
48689	Antonio Jorge Chamusca Castro Monteiro			N	N	N			N							Suspended





59034	Carlos Nuno de Paiva Marques	N	N	N	N	N												?			Suspended p	
58990	David Sousa Lima			N	N	N				N												
58859	Divyar Sahaj Padhi			N	N	N																
58829	Guillaume Louis Gagnon Gagnon			N	N	N														N		
58816	João Eduardo Albuquerque Martins Pereira Pires			N	N	N													N			
57424	Kwabena Amosko Kyereveh	N	N	N	N	N				?												Suspended p
58986	Luís Eduardo Estada Diniz			N	N	N																
58997	Omid Nasrollahi	N		N	N	N															?	Suspended p
59004	Roberto Carlos Pereira			N	N	N															?	
58814	Yannick Alexandre Costa Duarte			N	N	N																QUIT



**This edition is also very in terms of courses !  
Nevertheless, the pandemic situation of COVID-19 might have caused some disturbance.**



**Some students have not yet indicated their specialization area.**

### 4.14 Edition of 2020/2021

Situation of the PhD students enrolled in 2020/2021 regarding the courses component:

Nº	Name	SRMT	EM	DC	RP	FO	AT cd	AT el	AT en	AT sp	AT cn	AT rim	AT cps	AT iis	AT tel	Graduated
61395	Azad Bahmani	N	N		N	N										Suspended p
59359	Bahman Johari	N	N		N	N										
61255	Behrooz Sarifi	N			N	N										
61120	Carolina Rosário Coelho Xavier de Carvalho				N	N	N							N		
59433	Jaime Gonçalves Pita Santos de Almeida				N	N										
61248	David Barros Leonardo				N	N		N								
61247	David Miguel Augusto de Almeida				N	N										
61144	Fábio Rafael Martins de Oliveira				N	N							N			
59389	Florindo Miguel de Matos Canas				N	N				N						
61139	João Paulo de Carvalho Madeira				N	N										N
61206	Jorge Miguel da Silva Calado	N			N	N								N		
61257	Leandro Henrique Monteiro Filipe				N	N							N			
61117	Luís Carlos Guimarães Lourenço	N			N	N								N		
61251	Luís Miguel Henriques Lourenço				N	N										
61214	Rafael Joaquim Oliveira Rodrigues				N	N								N		
61106	Raquel Alexandra Abrantes Melo				N	N								N		Suspended p
61204	Senideh Kalateh Seifari				N	N							N			
61283	Seved Masoud Ardestani	N	N		N	N				N						
59335	Shuai Liu				N	N								N		
61124	TEHRAN BATELI BUKRATTAL				N	N							N			
61217	Walid Galoul	N	N		N	N										Suspended p



**This edition is also very late in terms of courses !  
Nevertheless, the pandemic situation of COVID-19 might have caused some disturbance.**



**Some students have not yet indicated their specialization area.**



## 5. FINISHED THESES IN 2021 AND AWARDS

### THESES

The following theses were concluded in 2021: 7

Nº	Name	Supervisor	Co-supervisor(s)	Theses in 2021
53873	<b>João</b> Pedro Leal Abalada de Matos <b>Carvalho</b>	José Manuel Fonseca	André Mora	27 Jan 2021
41189	<b>Fábio</b> Emanuel Pais <b>Januário</b>	Paulo Gil	Alberto Cardoso	17 Feb 2021
46316	<b>Bruno</b> Augusti <b>Mozaquatro</b>	Ricardo Jardim Gonçalves	João Martins	18 Feb 2021
41199	<b>Nuno</b> Manuel Gonçalves <b>Vilhena</b>	João Murta Pina	Anabela Pronto, Alfredo Álvarez	18 Feb 2021
33761	<b>Somayeh Abdollahvand</b>	João Goes	Luis Gomes	19 Feb 2021
49331	<b>Ricardo</b> Falé de Carvalho <b>Madeira</b>	Nuno Paulino	João Pedro Oliveira	2 Dec 2021
46581	<b>Nazanin Vafaei</b>	Rita Ribeiro	Luis Camarinha-Matos	6 Dec 2021



This year we had a reduced **number of finished theses**; nevertheless, 2 additional theses were submitted and are waiting for public defense (viva). The delay was caused by the COVID-19 pandemic.

Additional theses submitted 2021 and waiting defense: 2

Nº	Name	Supervisor	Co-supervisor(s)
44089	<b>Kevin Nagorny</b>	José Barata	Armando Walter Colombo
46678	<b>Paulo Alves Figueiras</b>	Ricardo Jardim-Gonçalves	João Moura Pires

### AWARDS



**Three** of our students got awards in 2021:

<p><b>Student:</b> <u>Nazanin Vafaei</u>  <b>Supervisor:</b> Rita A. Ribeiro and Luis M. Camarinha-Matos</p>  <p><b>Award:</b>  <b>EURO Working Group on Decision Support Systems 2020-Award</b></p> <p><b>Paper:</b> "Selecting Best Normalization Technique for MCDM Methods"</p>	
<p><b>Student:</b> <u>Majid Zamiri</u>  <b>Supervisor:</b> Luis M. Camarinha-Matos</p>  <p><b>Award:</b>  <b>Best Paper Award</b>          In the area "Intelligent Decision and Complex Systems", DoCEIS 2021, Caparica, Portugal (online), 7-9 Jul 2021.</p> <p><b>Paper:</b> "A Mixed Method for Assessing the Reliability of Shared Knowledge in Mass Collaborative Learning Community"</p>	
<p><b>Student:</b> <u>Dario Pedro</u>  <b>Supervisor:</b></p> <p><b>Award:</b>  <b>Altice Academy prize for best Master's or Doctoral work</b></p> <p><b>Project:</b> "Collision Avoidance on Unmanned Aerial Vehicles using Deep Neural Networks"</p>	

# 6. SUPERVISION AND MONITORING

## 6.1 Supervisors, TACs, and research topics

The following tables show the situation of each student:

**Edition of 2008/2009:**

Nº	Name	Specialization	Thesis title (tentative)	TAC			
				Chair	Supervisor	Co-supervisor	External member
30064	Ana Inês da Silva Oliveira	Collaborative Enterprise Networks	An environment to support negotiation and contracting in collaborative networks	José Barata Oliveira	Luis Camarinha Matos		Henrique O'Neill
29737	Carli Solange Pires Correia Viveiros	Control and Decision	Fault tolerant control approaches – application to structural faults	Luís Gomes	Luís Palma	José Igreja	Alberto Jorge Lebre Cardoso
29714	Carlos Jorge de Cunha Matos	Signal Processing	Fractional-order linear systems implementation	Fernando Coito	Manuel Ortigueira	Octávio Páscoa Dias	José A. Tenreiro Machado
30074	Carlos Manuel de Melo Agostinho	Industrial Information Systems	Sustainability of systems interoperability in dynamic business networks	A. Steiger Garção	Ricardo Gonçalves		Ricardo Chalmeta
30069	Daniel José Medronho Foito	Energy	Máquina de Indução no Aproveitamento de Energias Renováveis	M.Ventim Neves	João Martins	José Querido Maia	Vitor Fernão Pires
29760	David Duarte Pereira Inácio	Energy	Estudo do Motor em Disco com o Rotor em Alumínio e em Supercondutor Multi-semente	Anabela Pronto	M.Ventim Neves	Alfredo Álvarez Garcia (ext) João Murta Pina	António Dente
30068	Ezequiel Francisco do Vale Carvalho	Energy	A Integração do Veículo Eléctrico no Sistema Eléctrico Nacional	João Martins	M.Ventim Neves	José Alberto Sousa	João Paulo da Silva Catalão
30065	Filipa Alexandra Moreira Ferrada	Collaborative Enterprise Networks	Emotions-oriented monitoring system of collaborative networks	José Barata Oliveira	Luis Camarinha Matos		Henrique O'Neill
29588	Filipe André de Sousa Figueira Barão	Control and Decision	Control of distribution networks with demand side management	João Martins	Rui Neves-Silva		José Manuel Igreja
30073	João Filipe dos Santos Saraiva	Industrial Information Systems	Semantics adaptability for systems interoperability	A. Steiger Garção	Ricardo Gonçalves		Hervé Panetto
29586	João Paulo Machado Mendes	Energy	Modulador Híbrido de potência pulsada para aplicações médicas - O uso de semicondutores com linhas de transmissão	Luís Camarinha Matos	Luís Manuel Redondo	Manuela Vieira	Elmano da Fonseca Margato
30070	José Carlos de Ponte Ribeiro	Computational and Perceptual Systems	Exploração de diferentes semânticas na construção estruturada de modelos em redes de Petri e sua aplicação no desenvolvimento de sistemas embutidos	Luís Camarinha Matos	Luís Gomes	Fernando Manuel Melício	João Paulo Mestre Barros
30063	José Inácio Pinto Rosado Rocha	Computational and Perceptual Systems	System design optimization using real time genetic algorithm hardware implementations	João Goes	Luís Gomes	Octávio Páscoa Dias	Manuel Barata
30066	Luís Domingos Ferreira Ribeiro	Robotics and Integrated Manufacturing	Diagnosis in Evolvable Assembly Systems	Luís Camarinha Matos	José Barata Oliveira		Carlos Baptista Cardeira
30004	Luís Miguel Bentes Moita Flores	Robotics and Integrated Manufacturing	Evolvable/reconfigurable control architecture for complex and heavy manufacturing shopfloor	Pedro Sousa	José Barata Oliveira		Mauro Onori
30067	Pedro Miguel Ribeiro Pereira	Electronics	Projecto de osciladores LC controlados por tensão por utilização de técnicas de optimização	Fernando José Almeida Vieira do Coito	Maria Helena Silva Fino	Mário Fernando Ventim Neves	João Vaz
29768	Ruben Duarte Dias da Costa	Industrial Information Systems	A framework to support semantic enhancement of knowledge in collaborative engineering projects	José Barata Oliveira	Celson Lima	A. Steiger Garção	Paulo Rupino
30072	Sérgio Miguel da Silva Onofre	Computational and Perceptual Systems	Arquitetura de Referência para Sistemas Físicos Monitorados por Sensores	José Barata Oliveira	Pedro Sousa	João Paulo Pimentão	Ernestina Menasalvas

30040	Tiago José Monteiro Baptista Cabral Ferreira	Computational and Perceptual Systems	Reference architecture for maintainability and reliability systems	João Paulo Pimentão	Pedro Sousa	José Barata Oliveira	Ernestina Menasalvas
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## Edition of 2009/2010:

Nº	Name	Specialization	Thesis title (tentative)	TAC			
				Chair	Supervisor	Co-supervisor	External member
33254	António Manuel Vieira Pinto	Energy	Planeamento multiobjectivo de sistemas em redes de distribuição	João Martins	Vitor Manuel de Carvalho Fernão Pires	João Murta Pina	Humberto Manuel Matos Jorge
32618	Carlos Manuel Ferreira Carvalho	Electronics	CMOS indoor light energy harvesting system for wireless sensing applications	João Goes	Nuno Paulino		Jorge Fernandes
32608	Edinei Santin	Electronics	A built-in Self-Test Technique for High Speed Analog-to-Digital Converters	Nuno Paulino	João Goes	Luís Oliveira	Jorge M. dos Santos Ribeiro Fernandes
33224	Eduardo Adelino Mateus Nuno Eusébio	Energy	Agentes comerciais no mercado de energia eléctrica		Jorge Alberto Mendes Sousa	Mário Fernando Ventim Neves	
32678	Elena Nikolaevna Baikova	Energy	Energy distribution by high- power high-frequency wireless methods	Fernando Coito	Stanimir Valtchev	Vitor Pires	Duarte de Mesquita e Sousa
33249	Fernando Joaquim Ganhão Pereira	Computational and Perceptual Systems	Petri nets and reconfigurable computing platforms	Aniko Katalin Horvath da Costa	Luís Gomes		Ricardo J. Machado
32574	Filipe de Carvalho Moutinho	Computational and Perceptual Systems	Petri Nets and heterogeneous distributed embedded systems design	Aniko Katalin Horvath da Costa	Luís Gomes		João Miguel Fernandes
33270	Francisco José Dinis de Sousa Fernandes Ganhão	Telecommunications	Cross-Layer design and optimization for power-efficient low earth orbit satellit	Paulo da Costa Luís da Fonseca Pinto	Rui Dinis	Luís Bernardo	Nuno M. Branco Souto
32552	Francisco Manuel Mendes da Silva Pina	Energy					
32590	João Carlos Ferreira de Almeida Casaleiro	Electronics	MOSFET - only radio receiver	João Carlos Palma Goes	Luís Oliveira		Manuel Medeiros Silva
32697	João Manuel Ferreira Martins	Electronics	Using reconfigurable computing to improve the performance of massively parallel processing architectures		Mário Pereira Véstias	Manuela Vieira	
32725	João Miguel Ferreira Caldas da Costa	Control and Decision	Classification and Analysis of Sleep Spindles	Adelino Rocha Ferreira da Silva	Manuel Ortigueira	Maria Teresa Aguiar dos Santos Paiva	António Serralheiro
33271	José Miguel Ferreira Preto Marques Lázio	Telecommunications	High efficiency transmission techniques for broadband wireless systems	Luís Filipe Lourenço Bernardo	Rui Dinis	Paulo Montezuma	João Marques Silva
33268	José Pedro Magalhães Lucas	Computational and Perceptual Systems	Behavioral model for distributed automation systems	José António Barata de Oliveira	Luís Gomes	João Martins	Paulo Leitão
32585	José Xavier Ferreira da Silva	Telecommunications	Computational intelligence in space weather prediction for aviation	José Manuel Matos Ribeiro da Fonseca	(Lost the supervisor)	Ivan Dorotovic	Luis Correia
33572	José Alberto Oliveira Lima	Energy	Real-time intelligent optimization and learning for intelligent buildings	José António Barata de Oliveira	João Martins	Celson Lima	Paulo Rupino
32564	Manuel Augusto Vieira	Electronics	Three transducers for one photo detector: essays for optical communication	Ricardo Luís Rosa Jardim Gonçalves	Paula Louro Antunes (ext)	A. Steiger Garção	Manuel Martins Barata
32612	Maria da Graça Vieira de Brito Almeida	Computational and Perceptual Systems	Image Processing for Displacement Measurements	André Teixeira Bento Damas Mora	José Manuel Fonseca	Fernando Manuel Melício	Arnaldo Joaquim Abrantes
32643	Miguel Bacekar de Sousa Carneiro	Processamento de Sinais	Automatic sleep stage classification using electroencephalography (EEG) signal analysis		Arnaldo Batista	Manuel Ortigueira	
32613	Nuno Paulo Real Veiga Cardoso	Signal Processing	High-frequency electrocardiogram wavelet analysis	Rui Manuel Leitão Santos Tavares	Arnaldo Batista	Manuel Ortigueira	Maria Cristina E. B. Prista Caetano

32733	Pedro Jorge Cristina Mendes	Robotics and Integrated Manufacturing			(Lost the supervisor)		
33331	Pedro José Ambrósio Lobato	Energy	A Máquina eléctrica de relutância comutada - análise de funcionamento como gerador em aproveitamentos eólicos	Mário Fernando Ventim Neves	Armando Pires (ext)	João Martins	Joaquim António F. Gonçalves Dente
32566	Raul Figueiredo Condeiro de Magalhães Correia	Computational and Perceptual Systems	Euronet Lab a cloud V-Lab Environment	Luis Gomes	José Manuel Fonseca	Andrew Donnellan (ext)	Amine Bergia
32719	Rui Manuel Carvalho dos Santos Azevedo Antunes	Control and Decision	Controlo em Sistemas de Interação Humano-Máquina	(pre-Bologna)	Luis Palma	Herminio Duarte Ramos	
33332	Silviano Francisco dos Santos Rafael	Energy	Controlo de posição angular de uma máquina eléctrica de relutância comutada 8/6	Fernando Coito	Armando Pires (ext)	Steiger Garção / Paulo José Costa Branco (ext)	Joaquim A. Fraga Gonçalves Dente
32656	Sveltana Roudolfovna Chemetova	Energy	Estimação de padrões de consumo de energia eléctrica	João Miguel Murta Pina	Paulo Jorge da Costa Santos (ext)	M. Ventim Neves	Jorge Alberto Mendes de Sousa
32584	Vitor Manuel de Oliveira Fialho	Electronics	Estudo e optimização do ruído de fase em osciladores locais para comunicação sem fios	Luís Augusto Bica Gomes de Oliveira	Fernando M-Ascenso Fortes (ext)	Manuela Vieira	Mário Vestas
33490	Eduardo Manuel Ferreira Morais Pinto	Robotics and Integrated Manufacturing	Cooperation in multi-ambient swarm robots	Luís Manuel Camarinha de Matos	José Barata Oliveira		Jorge Manuel Miranda Dias

Note: José Xavier Ferreira da Silva no longer has supervisor, as he is not contactable for a long time.



As shown in the above table, some students from 2009/2010 still **do not have a TAC**, which is not acceptable!

**It is absolutely urgent that their supervisors submit the proposals for TACs. Some lost their supervisor due to being inactive.**

Francisco Pina and José Silva have lost their supervisor due to their underperformance during the last years. It is unclear if they intend to continue.

### Edition of 2010/2011:

Nº	Name	Specialization	Thesis title (tentative)	TAC			
				Chair	Supervisor	Co-supervisor	External member
35499	Blazej Nowacki	Electronics	Design of sigma-delta modulators for analog-to-digital conversion intensively using passive switched-capacitor circuits	João Pedro Abreu de Oliveira	Nuno Filipe Silva Veríssimo Paulino	João Carlos Palma Goes	Jorge Manuel Correia Guilherme
34339	Ehsan Shahamatnia	Industrial Information Systems	Automatic solar feature characterization and tracking	José Manuel Fonseca	Rita Ribeiro	Ivan Dorotovic (ext)	João Fernandes
34752	Gonçalo Nuno Nascimento Ventura de Brito Nunes	Control and Decision	Topologias multi-agente em redes de sensores e actuadores sem fios: aplicação ao controlo tolerante a falhas	Rui Alexandre Nunes Neves-Silva	Paulo José Carrilho de Sousa Gil	Alberto Jorge Lebre Cardoso (ext)	Mário José Gonçalves Cavaco Mendes
35122	Hugo Tito Condeiro	Signal Processing	Reconhecimento de patologias da voz usando técnicas de processamento da fala	André Mora	Carlos Eduardo de Meneses Ribeiro (ext)	José Manuel Fonseca	Isabel Cristina Ramos Peixoto Guimarães
35771	Ivan Iuri Alves Bastos (a)	Electronics	MOSFET-only low noise amplifiers	João Carlos Palma Goes	Luís Augusto Bica Gomes de Oliveira	Manuel de Medeiros Silva (ext)	Jorge Manuel Ribeiro dos Santos
35831	João Luis Alvernaz de Melo (a)	Electronics	Design of a low cost CMOS modulator for class D audio power amplifiers with very high efficiency	João Pedro Abreu de Oliveira	Nuno Filipe Silva Veríssimo Paulino	João Carlos Palma Goes	Marcelino Bicho dos Santos
35719	João Tiago Vieira de Sousa Virote *	Control and Decision	Methodologies for optimal control of networked distributed systems				
35171	Magno Edgar da Silva Guedes *	Robotics and Integrated Manufacturing	Analysis of operator's behaviors in working places				
35276	Manuel Fernandes Carvalho *	Industrial Information Systems	Algoritmo de aprendizagem automática para construção de variáveis linguísticas para sistemas de monitorização				
35666	Nuno Miguel Abreu Luís	Telecommunications	Medium Access Control Design for Distributed Opportunistic Radio Networks	Luis Bernardo	Rodolfo Alexandre Duarte Oliveira	Rui Miguel H. Dias Morgado Dinis	Paulo Marques

35208	Pedro Mendes de Lacerda Peixoto de Magalhães	Energy	Control and demand-oriented optimization of photovoltaic-thermal (PV-T) solar collectors	Fernando J. Almeida Vieira Coito	João Francisco Alves Martins	António Joyce (ext)	António Gomes Martins
35661	Rogério Alexandre Botelho Campos Rebelo	Computational and Perceptual Systems	Petri nets and human-system interactions design	Luis Palma	Luís Filipe Santos Gomes	Aniko K. Horvath da Costa	João Paulo Barros
33761	Somayeh Abdollahvand	Electronics	Design of high-performance low-noise and low-power mixed-signal CMOS circuits employing self-biasing and low-voltage techniques	Luis Oliveira	João Carlos Palma Goes	Luís F. S. Gomes	José Soares Augusto
35851	Vitor Manuel Guerra Yaz da Silva (a)	Electronics	Demultiplexing optical communications with visible light selector	Rui Tavares	Manuela Vieira	Manuel Martins Barata (ext)	João M.Serra



Students 35719, 35171 and 35276 apparently quit but have not formalized their withdrawal yet. They no longer have a supervisor, as they are not contactable for a long time.

### Edition of 2011/2012:

Nº	Name	Specialization	Thesis title (tentative)	TAC			
				Chair	Supervisor	Co-supervisor	External member
38744	Carlos Eduardo Dias Coutinho (a)	Industrial Information Systems	(Transição pré-Bolonha) NEGOSEIO: Framework for the Sustainability of Model-oriented Enterprise Interoperability		Ricardo Gonçalves	Adina-Georgeta Bratu Cretan (ext)	
38070	Fábio José Pinto da Silva (a)	Telecommunications	Users and Channel Estimation for Network Diversity Multiple Access	Rodolfo Alexandre Duarte Oliveira	Rui Dinis	Paulo Montezuma Carvalho	Francisco Cercas
38345	Fernando Luis Loureiro Papalardo	Computational and Perceptual Systems	Framework for knowledge Management based on Neuroscience Models	João Martins	Ricardo Gonçalves		Pedro Santos Pinto Gamito
38960	Joaquim Moreira Lima (a)	Energy	Distributed power generation in smart grids	João Carlos Palma Goes	José Barata	João Martins	Rui Gameiro Castro
38346	José Alexandre Pires Ferreira	Industrial Information Systems	Monitoring morphisms to support sustainable interoperability of networked enterprise systems	José Barata Oliveira	Ricardo Gonçalves	Carlos Manuel Melo Agostinho (ext)	João Pedro Mendonça de Assunção da Silva
38996	Luis Miguel Rego Pires (a)	Electronics	Ultra-low power RF CMOS digital transceiver using parametric signal conversion in nano-scale CMOS technology	João Carlos da Palma Goes	João Pedro Oliveira		Jorge Manuel Correia Guilherme
38876	Maria Paula de Brito Gomes (a)	Collaborative Enterprise Networks	Performance Indicators for Collaborative Business Ecosystems	João Martins	Luis Camarinha Matos		António Abreu
38050	Massimiliano Zanin	Computational and Perceptual Systems	Complex networks and data mining: toward a new perspective for the understanding of complex systems	Luis Camarinha Matos	Pedro Sousa	Stefano Boccaletti (ext)	Ernestina Menasalvas
38690	Miguel Alexandre Sousa Ferro de Beca	Industrial Information Systems	Framework to facilitate the discovery of data sources using semantic web principles	José Barata Oliveira	Ricardo Gonçalves	Adina-Georgeta Bratu Cretan (ext)	João Pedro Mendonça de Assunção da Silva
38980	Miguel Pinto Campilho Gomes (a)	Electronics	Automated flat circuit-level topology generation	Nuno Paulino	Rui Santos Tavares	João Goes	Nuno Cavaco Gomes Horta
38728	Nuno Manuel Ortega Amaro	Energy	Superconducting Magnetic Energy Storage (SMES) for power quality applications	Mário Ventim Neves	João Murta Pina	José Ceballos Martínez (ext) + João Martins	Victor Fernão Pires
38972	Raúl Eduardo Capela Tello Ruiz (a)(c)	Signal Processing	Formalização da tolerância à ausência de dados do processamento de sinais discretos		(self-supervised)		
38691	Rui Alexandre Neves Medeiros	Energy	Wireless energy transfer for robotic purposes	Fernando Coito	Stanimir Valtchev	Mário Rui Melício da Conceição (ext)	Victor Manuel Fernandes Mendes
38049	Sebastian Scholtes	Industrial Information Systems	Efficient embedded services applying context awareness for agile manufacturing	Luís Manuel Camarinha Matos	José Barata		Edmundo Monteiro
38184	Sudeep Ghimire	Industrial Information Systems	Self-* Framework for service system	João Goes	Ricardo Gonçalves	António C. Bárbara Grilo	Ricardo Jorge Silvério de Magalhães Machado
37772	Tahereh Nodehi	Computational and Perceptual Systems	A new MDA-SOA framework for intercloud interoperability	José Barata Oliveira	Ricardo Gonçalves		João Pedro Mendonça de



							Assunção da Silva
38063	Vasco Miguel Delgado Gomes	Industrial Information Systems	A framework to support standard-based communication between the heterogeneous building-related systems	Ricardo Luís Rosa Jardim Gonçalves	Celson Pantoja Lima (ext)	João Martins + Paul Nicolae Borza (ext)	Silvio Mariano

- (a) From pre-Bolonha  
 (b) Entered in the 2<sup>nd</sup> phase  
 (c) Self-supervised

## Edition of 2012/2013:

Nº	Name	Specialization	Thesis title (tentative)	TAC			
				Chair	Supervisor	Co-supervisor	External member
41203	Ali Abdollahy Gharbali	Signal Processing	Biomedical Signal Processing	Rui Neves Silva	José Manuel Fonseca		André Lourenço
41185	António Eduardo Carreiro Furtado	Telecomunicações	Advanced PHY/MAC design for infrastructure-less wireless networks	Luís Filipe Lourenço Bernardo	Rodolfo Oliveira	Rui Dinis	Pedro Joaquim Amaro Sebastião
40964	Catarina Inês Marques de Lucena	Industrial Information Systems	Semantic adaptation of knowledge representation systems	João Francisco Alves Martins	Ricardo Gonçalves	João Filipe dos Santos Sarraipa (ext)	Teresa Cristina de Freitas Gonçalves
41116	Eduardo José Resende Ortigueira	Electronics	Wideband Oscillators Synchronized by a magnetic nano-oscillator	João Carlos Palma Goes	Luís Oliveira	Jorge Manuel dos Santos Ribeiro Fernandes (ext)	Igor Filanovski
41189	Pablo Emanuel Pais Januario	Control and Decision	Resilient control systems over wireless sensor and actuator networks: a multi-agent based approach	Luís Filipe Santos Gomes	Paulo Gil	Alberto Jorge Lebre Cardoso (ext)	Mário José Gonçalves Cavaco Mendes
41159	Hamidreza Tolae Joe Forush Taji	Control and Decision					
41192	Hugo Alexandre de Andrade Serra	Electronics	Design of switched-capacitor filters using low gain amplifiers in advanced CMOS technologies	João Pedro Abreu de Oliveira	Nuno Paulino		Nuno Cavaco Gomes Horta
41071	João Francisco Martinho Lado Guerreiro	Telecommunications	Optimum performance and sub-optimal receivers for OFDM signals	Rodolfo Alexandre Duarte Oliveira	Rui Dinis	Paulo Montezuma	Marco Cravo Gomes
40662	Luís Filipe Romba Jorge	Energy	Wireless power transfer in polyphase systems with optimized control	Fernando Coito	Stanimir Valtchev	Mário Rui Melício da Conceição (ext)	Victor Manuel Fernandes Mendes
41199	Nuno Manuel Gonçalves Vilhena	Energy	Contribution for the study of integration of the saturated cores fault current limiters in electrical distribution grids	João Francisco Alves Martins	João Murta Pina	Anabela Pronto + Alfredo Álvarez García (ext)	Antonio Morandi
41200	Pedro Miguel Lucas Arsenio	Energy	Contribution for the study of inductive fault current limiters in distribution electric grids	João Martins	João Murta Pina	Anabela Pronto + Alfredo Álvarez García (ext)	Istvan Vajda
41430	Ricardo André Martins Mendonça	Robotics and Integrated Manufacturing	Framework for swarm cognition	José Manuel Fonseca	José Barata Oliveira	Pedro Figueiredo Santana (ext)	João Ascenso
41198	Rui Miguel Amaral Lopes	Energy	Gestão de energia em edifícios no contexto da internet of things	Luís Filipe Santos Gomes	Celson Lima (ext)	João Martins + Daniel Aelenei (ext)	João Peças Lopes
41507	Shavisa Tomic	Telecommunications	Cognitive radio	Paulo Montezuma Carvalho	Marko Beko	Rui Dinis	Fernando Duarte Nunes

Apparently student 41159 has quit, but he didn't formalize his withdrawal.

## Edition of 2013/2014:

Nº	Name	Specialization	Thesis title (tentative)	TAC			
				Chair	Supervisor	Co-supervisor	External member
43945	André Domingos Bettencourt da Silva Rocha	Robotics and Integrated Manufacturing	An architecture for self-organizing conveyor-based material handling systems	Ricardo Gonçalves	José Barata Oliveira	Luis Domingos Ribeiro (ext)	Paulo Leitão
44429	Edgar Miguel Felício Oliveira da Silva (a)	Computational and Perceptual Systems	A multi criteria co-design for cyber-physical systems	João Francisco Alves Martins	Ricardo Luis Rosa Jardim Gonçalves		João Pedro Mendonça da Silva
43962	Elsa Maria Marcelino de Jesus	Industrial Information Systems	Knowledge-based framework for an effective technology transfer from research to industry	Anabela Monteiro Gonçalves Pronto	Ricardo Gonçalves		João Pedro Mendonça da Silva
43621	Francisco Antero Cardoso Marques	Robotics and Integrated Manufacturing	Context-aware navigation for long lasting operation of multi-robot systems	Luis Gomes	José Barata Oliveira	Pedro Figueiredo Santana	Victor José de Almeida e Sousa Lobo
43984	Frederico João Gonçalves dos Santos Branco Martins	Energy					
43619	Giovanni Di Orio	Robotics and Integrated Manufacturing	Self-adaptable production systems	Pedro Sousa	José Barata Oliveira		Luis Domingos Ribeiro
44089	Kevin Pierre Nagorny	Robotics and Integrated Manufacturing	Service Oriented architecture based manufacturing to support product life-cycle	Pedro Sousa	José Barata Oliveira	Armando Walter Colombo	Luis Domingos Ferreira Ribeiro
43582	Leonardo Pedro Donas Botelho Vilhena Martins	Computational and Perceptual Systems	Study of the kinetics of asymmetric disposal of aggregates in cell division and its correlation to functional aging in vivo measurements, one event at a time	André Teixeira Bento Damas Mora	José Manuel Fonseca	André Sanchez Ribeiro	Adriano José Alves de Oliveira Henriques
44126	Mário Rui Monteiro Marques	Control and Decision	Model Reference for USV	José António Barata de Oliveira	Fernando Coito	Victor José de Almeida e Sousa Lobo	António Joaquim dos Santos Serralheiro
44154	Nuno Rúben Ferreira Pereira	Electronics	Design of analog-to-digital converters with embedded mixing for ultra-low-power	Rui Dinis	João Goes		Jorge Manuel Ribeiro Fernandes
44173	Thais Andrea Baldissera (a)	Collaborative Enterprise Networks	Personalization and evolution of collaborative business services	Rita A. Ribeiro	Luis M. Camarinha-Matos		Patrícia Alexandra de Pires Macedo

(a) Started in the 2nd semester

Apparently student 43984 has quit, but he didn't formalize his withdrawal.

## Edition of 2014/2015:

Nº	Name	Specialization	Thesis title (tentative)	TAC			
				Chair	Supervisor	Co-supervisor	External member
46574	André Paulo Paulo Gomes	Electronics	A paradigm shift in the design of analog circuits targeting nano-scale CMOS and large-scale TFT technologies	João Pedro Abreu de Oliveira	João Carlos Palma Goes	Pedro Miguel C. Barquinha (ext)	Vitor Manuel Grade Tavares
46657	André Filipe Lopes Lourenço	Robotics and Integrated Manufacturing					
46416	Antonio Jorge Teixeira Ealcão	Industrial Information Systems	Innovative Methods for Visualisation & Correlation of Large Scale Connected Object Data		Maria Rita Sarmiento de Almeida Ribeiro		
46560	Artem Artemovich Nizovnikov	Collaborative Enterprise Networks	Collaborative cyber-physical systems	Luis Filipe Santos Gomes	Luis Manuel Camarinha de Matos		Patrícia Alexandra de Pires Macedo
46316	Bruno Augusti Mozzanatti	Industrial Information Systems	A framework to improve security and privacy on the Internet of Things	Anabela Monteiro Gonçalves Pronto	Ricardo Luis Rosa Jardim Gonçalves	João Francisco Alves Martins	Bruno Andô



46533	Enriquez, Raul	Control and Decision	Dynamic Multiple Criteria Decision Making for Risk Management				
46471	Miguel Duarte Madeira Fernandes	Electronics	High Efficiency Transceivers Blocks designed in modern CMOS technologies	João Pedro Abreu de Oliveira	Luís Augusto Bica Gomes de Oliveira	João Carlos da Palma Goes	Michael Figueiredo
46575	Milica Mariki	Telecommunications	(Quit?)				
46581	Marizma V. Figueira	Collaborative Enterprise Networks	Data Normalization in Decision Making Processes	José M. Fonseca	Rita A. Ribeiro	Luís Manuel Camarinha de Matos	Leonilde Varela
46678	Paulo Alves Figueiras	Industrial Information Systems	Multi-source Big Data Fusion Driven Proactivity for Intelligent Mobility	Anabela Gonçalves Pronto	Ricardo Luís Rosa Jardim Gonçalves	João Moura Pires	Celson Pantoja Lima
46348	Raquel Alexandra Abreu Melo	Industrial Information Systems	Orchestration of Things	José António Barata de Oliveira	Ricardo Luís Rosa Jardim Gonçalves	Carlos M. Melo Agostinho	Raul Poler
46651	Shahin Naji	Signal Processing	Feature Selection in Sleep Stage Classification	Rita Ribeiro	José Manuel Matos Ribeiro da Fonseca		Rui Ferreira Silva
46324	Vagner Savegnago Schofer	Energy	Comfort and energy efficiency in service buildings	Ricardo Gonçalves	João Francisco Alves Martins		Celson Pantoja Lima



**Some students do not have CAT yet. It is urgent to solve this issue.**



**3 students have not proposed a supervisor yet. This situation cannot continue and needs to be solved urgently.**

Student 46575 seems to have quit but did not formalize her withdrawal.

### Edition of 2015/2016:

Nº	Name	Specialization	Thesis title (tentative)	TAC			
				Chair	Supervisor	Co-supervisor	External member
48978	Adriano Manuel Alves Ferreira (a)	Robotics and Integrated Manufacturing	Self-sustainable Holonic Multi-Agent System Management in Smart Electrical Microgrids	Ricardo Gonçalves	José Barata	Paulo Leitão	Thomas Strasser
49139	Anselmo Rafael Cukla (b)	Robotics and Integrated Manufacturing	Robôs Manipuladores Baseados em Módulos Mecatrônicos		Eduardo André Perondi	José Barata	
48689	Fernando Jorge Chapita de Castro Monteiro	Energy	A Framework for the Integration of Renewable Energy	José Barata	João Miguel Murta Pina	João Francisco Alves Martins	Miguel Centeno Brito
48872	José Teixeira Gonçalves	Energy	Desenvolvimento de um Retificador Trifásico Híbrido Unidirecional com Conversor Boost	Luis Camarinha-Matos	Stanimir Stoyanov Valtchev	Frede Blaabjerg + Rui Melício	Vitor Mendes
48895	Kankam Okatskyie Ado-Kankam	Collaborative Enterprise Networks	Optimization of virtual power plants response using a Collaborative Network approach	João Martins	Luis Camarinha-Matos		Patrícia Macedo
48801	Luís Miguel Gomes Tavares	Electronics	Optimal sparsity bases for Compressed Sensing application to Cognitive Radio Spectrum Sensing	Paulo Montezuma Carvalho	José António Beltran Gerald	João Carlos Palma Goes	Vitor Mendes Silva
48305	Luís Miguel do Rosário Iria	Telecommunications	Interference Characterization in Advanced Wireless Communication Systems	Rui Miguel Henriques Dias Morgado Dinis	Rodolfo Alexandre Duarte Oliveira		Francisco António Bucho Cercas
49014	Mafalda Palma da Silva Viola Parreira Rocha	Robotics and Integrated Manufacturing	Collaborative Resilience for Smart Products Manufacturing	(Quit)			
48938	Miguel Zanetti	Collaborative Enterprise Networks	Mass Collaboration and Learning: Structure and Methods	Ricardo Gonçalves	Luis Camarinha-Matos		António Abreu
48855	Masoomeh Ramezani	Collaborative Enterprise Networks	Collaborative Networks and Disruptive Environments				
48833	Márcio José Moutinho da Ponte (b)	Industry Information Systems	Referencial Semântico da Identificação Botânica de Espécies Amazônicas		Celson Lima	Ricardo Gonçalves	

48995	Miguel de Lima Teixeira	Electronics	Neuro-Inspired Ultra-low-power CMOS Electronic System (mW range) for ECG and BMI Applications	João Pedro Abreu de Oliveira	João Carlos Palma Goes	José Carlos Príncipe	Vitor Manuel Grade Tavares
48884	Nuno Ricardo Zacarias Ramos	Industry Information Systems					
49015	Pedro Miguel Lima Monteiro	Robotics and Integrated Manufacturing	Energy monitoring and optimization framework - Complex networks approach	José António Barata de Oliveira	Pedro Sousa		Ernestina Menasalvas
49030	Ricardo Alexandre Fernandes da Silva Peres	Robotics and Integrated Manufacturing	An Intelligent Predictive Maintenance Approach for Evolvable Smart Systems	Ricardo Luís Rosa Jardim Gonçalves	José Barata	Paulo Leitão	Carlos Baptista Cardeira
48889	Shabnam Pasandideh	Computational and Perceptual Systems	A framework for designing resilient cyber physical social system	João Martins	Luis Gomes		João Paulo Barros



2 students do not have TAC yet. This situation cannot continue and needs to be solved urgently.

**Edition of 2016/2017:**

Nº	Name	Specialization	Thesis title (tentative)	TAC			
				Chair	Supervisor	Co-supervisor	External member
51334	Mariano Mar Braziani de Jesus	Energy	The use of cooperative NZEB communities to improve the grid resilience	Luis Camarinha-Matos	João Martins	Pedro Pereira	Sílvia José Mariano
51324	Andréia Filipa Viana Pereira Artifice	Industry Information Systems	Smart systems to enhance student's cognitive skills	João Martins	Ricardo Gonçalves	João Sarraipa	Yacine Ouzrout
51567	Jose Roberto Branco Ramos Filho (a)	Industry Information Systems	Um modelo conceitual de ecossistema de inovação baseado em fluxo de conhecimento		(Supervisor in Brazil)	Ricardo Gonçalves	
51477	Kooroshi Aslansafat						
51443	Mohammad Jafarrokhi	Computational and Perceptual Systems	Intelligent framework for interoperability in cyber-physical systems network	José Barata	Ricardo Gonçalves		João Pedro Mendonça da Silva
51615	Paulo Jorge Passos Sérgio Lourenço	Electronics	Amorphous Silicon Photonics Waveguides	João Goes	Manuela Vieira	Alessandro Fantoni	José Figueredo
49331	Ricardo Fale de Carvalho Madeira	Electronics	Study of fully integrated energy harvesting power management units (PMUs) for internet of things (IoT) applications	Luis Oliveira	Nuno Paulino		Jorge M. dos Santos Ribeiro Fernandes

(a) Dual PhD with Federal University of Para, Brazil



1 student has not proposed a **supervisor** yet (although it appears that he has quit the program).

## Edition of 2017/2018:

Nº	Name	Specialization	Thesis title (tentative)	TAC			
				Chair	Supervisor	Co-supervisor	External member
53892	Augusto Teles Gonçalves						
53858	David Oliveira Borges	Telecommunications	Design of low complexity receivers for massive MIMO systems	Luis Bernardo	Paulo Montezuma de Carvalho	Marko Beko, Rui Dinis	Pedro Joaquim Amaro Sebastião
54003	Duarte José Marques Alemão	Robotics and Integrated Manufacturing					
54352	Fawaz Saleem Hassan Al-Jobory (a)	Enterprise Collaborative Networks					
53820	João Carlos de Fraga Gato de Sá	Industry Information Systems	A distributed Ledger Based Framework for Ensuring IoT Data Integrity	Anabela Pronto	João Sarraipa	Ricardo Gonçalves	Nejib Moalla
53873	João Pedro Leal Abalada de Matos Carvalho	Computational and Perceptual Systems	Land-cover classification using image texture dynamic features	Rui Neves Silva	José Manuel Fonseca	André Mora	Arnaldo Joaquim Castro Abrantes
53967	José Augusto Inácio	Energy					
53856	José Manuel Lima D'Oliveira	Energy					
53556	Mohammad Reza Shariqul Mozammel	Enterprise Collaborative Networks					
52272	Mohammadhassan Abdollahi Sofla	Energy					
54130	Nuno Miguel Mendes Correia	Electronics					
53836	Ricardo Daniel Lopes Almeida	Enterprise Collaborative Networks	A Community-oriented Blockchain-based Electronic Voting Framework	José Barata	Luis Camarinha-Matos	Laura Ricci	Noélia Correia



**Most students have not proposed a supervisor yet.**  
**Most of them do not have TAC yet!**  
 This situation needs to be solved **urgently**.

## Edition of 2018/2019:

Nº	Name	Specialization	Thesis title (tentative)	TAC			
				Chair	Supervisor	Co-supervisor	External member
54815	Abdolkarim Rahmani	Telecommunications	RF Energy Harvesting Techniques for Massive MIMO Systems in 5G Networks	Rodolfo Oliveira	Rui Dinis	Dushantha Nalin K. Jayakody	Francisco António Cercas (ISCTE)
56656	Alcides Teixeira Gonçalves	Energy					
55073	Anneht Mazandarani	Telecommunications					
56413	Carolina Isabel Lagartinho de Oliveira	Computational and Perceptual Systems	Model-driven development of dependable systems	Anikó Costa	Luis Gomes	Filipe Moutinho	Alberto Cardoso
54753	Dário Filipe Romão Rodrigues	Computational and Perceptual Systems	Collision Avoidance on Autonomous Vehicles utilizing Deep Neural Networks	Luis Oliveira	José Manuel Fonseca	André Mora	Luis Correia
56395	Fábio Adriano Seixas Lopes	Industry Information Systems			Ricardo Jardim-Gonçalves		
56370	Guilherme André Marques Guerreiro	Industry Information Systems					
56365	Hugo André dos Santos Antunes	Industry Information Systems					

56412	Humberto Almeida de Sousa	Energy	Methodology for the Characterization and use of energy flexibility	Luis Camarinha-Matos	João Martins	Rui Lopes	Silvio Mariano
56492	Luis Miguel Lopes Mateus	Computational and Perceptual Systems	Applying Knowledge Discovery to manage renewables distributed production		Pedro Sousa		
54822	Nastaran Farhadi Ghahari	Robotics and Integrated Manufacturing					
56437	Peiman Behbahani Nasab	Robotics and Integrated Manufacturing					
56275	Carla Henriques	Energy					



**Most** students have not proposed a **supervisor** yet.  
**Most** of them do not have TAC yet!  
 This situation needs to be solved.

**Edition of 2019/2020:**

Nº	Name	Specialization	Thesis title (tentative)	TAC			
				Chair	Supervisor	Co-supervisor	External member
58917	Ali Gashgashi	Telecommunications			Rui Dinis	Mário Marques Silva	
58902	Ayman Tayseer Ali Abu Sabah	Telecommunications	PHY/MAC Design of Future Small Cells Adopting Multi-Packet Reception and Full-Duplex Communications	Luis Bernardo	Rodolfo Oliveira		Periklis Chatzimisios
59034	Carlos Nuno de Paiva Marques						
58990	Daniel Viana Dias	Energy	Study of the impact of electric vehicles integration on energy flexibility	Ricardo Gonçalves	João Martins	Rui Amaral Lopes	Carlos Silva
58859	Dixar Salah Fadil	Telecommunications	Traffic Analytics for Packet Networks		Rodolfo Oliveira		
58829	Guilherme Simões Cabalo de Brito	Industry Information Systems					
58816	João Eduardo Albuquerque Martins Pereira Pires	Computational and Perceptual Systems	Fusion of Earth Observation Satellites Data to improve Forest Height and Aboveground Biomass Estimation		José M. Fonseca	André Mora	
57424	Kwabena Amoako Kyereveh						
58986	Luis Alberto Estrada Jimenez	Robotics and Integrated Manufacturing					
58997	David M. Martins						
59004	Roberto Carlos Romão	Industry Information Systems			Ricardo Jardim-Gonçalves	Albino Oliveira-Maia + Fernando Luis Ferreira	



**Most** students have not proposed a **supervisor** yet. **Most** students do not have **TAC** yet.  
**Several** of them have not chosen a specialization area yet!  
 COVID-19 can justify the situation, but it needs to be solved urgently.

**Edition of 2020/2021:**

Nº	Name	Specialization	Thesis title (tentative)	TAC			
				Chair	Supervisor	Co-supervisor	External member
61395	Asad Behnam						
59359	Behnam Johari						
61255	Behrooz Sacidi	Enterprise Collaborative Networks					
61120	Carolina Rosario Coelho Xavier de Carvalho	Decision and Control					
59433	Daniel Gonçalves Pita Soares de Miranda	Electronics	Integrated Plasmonic Biosensor System based on Amorphous Silicon Compounds		Manuela Vieira	Alessandro Fantoni + João Costa	
61248	David Barros Leonardo	Electronics			João Goes	João P. Oliveira	
61247	Diogo Filipe Cardoso Pereira	Telecommunications			Rodolfo Oliveira		
61144	Fábio Rafael Martins de Oliveira	Robotics and Integrated Manufacturing					
59389	Florindo Miguel de Sousa Gomes	Energy					
61139	João Palé de Carvalho Madeira	Telecommunications	High Performance Secure WWireless Communications	Luis Bernardo	Rui Dinis	João Guerreiro	João Marques Silva
61206	Jorge Miguel da Silva Calado	Industry Information Systems			João Sarraipa	Ricardo Jardim Gonçalves	
61257	Leandro Henrique Monteiro Filipe	Robotics and Integrated Manufacturing					
61117	Luis Carlos Guimarães Fernandes	Industry Information Systems					
61251	Miguel Alexandre Gonçalves Lourenço						
61214	Rafael Joaquim Oliveira Rodrigues	Perceptual and Computational Systems			João Sarraipa	Ricardo Jardim Gonçalves	
61106	Raquel Alexandra Abrantes Melo	Industry Information Systems					
61204	Saad Jaleel Khatib Saifan	Robotics and Integrated Manufacturing					
61283	Seyed Masoud Ardeshani	Energy		Anabela Pronto	João Murta Pina	Roberto Oliveira	Guilherme Sotelo
59335	Shuai Liu	Perceptual and Computational Systems			José M. Fonseca	André Mora	
61124	TERRIN BABU BUBIKOTTIL	Robotics and Integrated Manufacturing					
61217	Wahid Galout						



**Most** students have not proposed a **supervisor** yet.  
**Several** of them have not chosen a specialization area yet!  
 COVID-19 can justify the situation, but it needs to be solved urgently.

## 6.2 Annual Progress Reports

According to the Deliberation of the Scientific Council 1/CC/2010:

“All PhD students of FCT-UNL must elaborate an **annual progress report**, which needs to be accompanied by an assessment of the supervisor or supervisors.

*This report, together with the **assessment report from the supervisor(s)** and **assessment report from the thesis accompanying committee** (when it exists), shall be sent to the Coordinator of the PhD Program up to 2 months after the end of the academic year.*

*In case any of the assessment reports considers there is insufficient progress, such assessment shall be communicated to the student.*

*The PhD Program **Coordinator** will **check the report** and send it, together with the assessment reports, to the Academic Office.*

*The check of the annual report by the Scientific Council as foreseen in the internal regulation 3/CC/FCT/2006 and in art. 23.º of Law 216/92 of 13 October, is delegated in the Coordinator of the PhD Program.”*

According to a more recent deliberation, the progress reports shall be scanned and uploaded in the CLIP system. **PhD students cannot submit their theses if the progress reports are not available and properly registered in CLIP.**

The situation regarding the progress reports is the following:

### Edition of 2008 / 2009:

Nº	Name	Annual Progress Report													
		2008/09	2009/10	2010/11	2011/12	2012/13	2013/14	2014/15	2015/16	2016/17	2017/18	2018/19	2019/20	2020/21	
30064	Ana Inês da Silva Oliveira	✓	✓	✓	✓	✓	✓	✓	✓	✓					Finished
30074	Carlos Manuel de Melo (Costinho)	✓	✓	✓	✓	✓	✓	✓	✓	✓					Finished
30069	Daniel José Medronho Pinto	✓	✓	✓	✓	✓	✓	✓	✓	✓					Finished
29760	David Duarte Pereira Inácio	✓	✓	✓	✓	✓	✓	✓	✓	✓					Finished
30068	Ezequiel Francisco do Vale Carvalho	✓	✓	✓	✓	✓	✓	✓	✓	✓					Finished
30065	Filipa Alexandra Moreira Armada	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓				Finished
29588	Filipe André de Sousa Figueira Barata	✓	✓	✓	✓	✓	✓	✓	✓	✓					Finished
30073	João Filipe dos Santos Saraiva	✓	✓	✓	✓	✓	✓	✓	✓	✓					Finished
29586	João Paulo Machado Mendes	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓			Finished
30070	Jose Carlos de Ponte Ribeiro	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	Finished
30063	Jose Inácio Pinto Rosado Rocha	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	Finished
30066	Luis Domingos Ferreira Ribeiro	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	Finished
30004	Luis Miguel Bentes Moura Flores	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	Finished
29770	Nuno Alexandre Soares Domingues	✓	✓	✓	✓	✓	✓	✓	✓	✓					Finished
30067	Pedro Miguel Ribeiro Pereira	✓	✓	✓	✓	✓	✓	✓	✓	✓					Finished
30137	Raúl Eduardo Capela Tello Gato	✓	✓	✓	✓	✓	✓	✓	✓	✓					Finished
29768	Ruben Duarte Dias da Costa	✓	✓	✓	✓	✓	✓	✓	✓	✓					Finished
30072	Sergio Miguel da Silva Inácio	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓				Finished
30040	Tiago José Monteiro Santana Cabral Pereira	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	Finished



**A few students (as well as their supervisors and TACs) have not submitted the annual reports, despite being warned for being late.**

**Edition of 2009/2010:**

Nº	Name	Annual Progress Report												
		2009/10	2010/11	2011/12	2012/13	2013/14	2014/15	2015/16	2016/17	2017/18	2018/19	2019/20	2020/21	
33253														Finished
32555	Anabela Monteiro Gonçalves Pronto (a)													Finished
33254	António António Vieira Pinheiro	✓	✓	✓	✓	✓	✓							Finished
32618	Carlos Manuel Ferreira Carvalho	✓	✓	✓	✓	✓								Finished
33240	Dora Helena Avólar Gonçalves	✓	✓	✓	✓	✓								QUIT
32608	Edinei Santin	✓	✓	✓	✓	✓								Finished
33224	Eduardo Adelino Mateus Nunes Eusebio	✓	✓											
33490	Eduardo Manuel Ferreira Morais Pinto	✓	✓	✓	✓	✓	✓	✓						
32678	Elena Nikolayevna Baikova	✓	✓	✓	✓	✓	✓	✓	✓					Finished
33249	Fernando Joaquim Ganhão Pereira	✓	✓	✓	✓	✓	✓	✓						Finished
32574	Filipe de Carvalho Moutinho	✓	✓	✓	✓	✓								Finished
33270	Francisco José Dinis de Sousa Fernandes Ganhão	✓	✓	✓	✓									Finished
32552	Francisco Manuel Mendes da Silva Pina													
32571	Gonçalo Moreira Cândido (a)													Finished
32590	João Carlos Ferreira de Almeida Casaleiro	✓	✓	✓	✓	✓	✓							Finished
32697	João Manuel Ferreira Martins	✓		✓	✓	✓								
32725	João Miguel Ferreira Caldas da Costa	✓	✓											
32734	João Pedro Abreu de Oliveira (a)													Finished
33572	José Alberto Oliveira Lima	✓	✓	✓	✓	✓	✓							Finished
33271	José Miguel Ferreira Preto Marques Luzia	✓	✓	✓	✓	✓								Finished
32606	José Rui Barbosa Custódio (a)													Finished
32585	José Xavier Ferreira da Silva	✓												
32564	Manuel Augusto Vieira	✓	✓	✓										Finished
33102	Marco António da Luz Delgado													
32612	Maria da Graça Vieira de Brito Almeida	✓	✓	✓	✓	✓								Finished
32632	Maria do Carmo Marques (a)													Finished
32607	Michael Figueiredo (a)													Finished
32643	Miguel Bacelar de Sousa Carneiro	✓												
32617	Miguel Ramos Pereira (a)													Finished
32626	Mónica Alexandra Pires Macedo (a)													Finished
32733	Pedro Jorge Cristina Mendes													
33331	Pedro José Ambrósio Lobato	✓	✓	✓	✓	✓	✓							Finished
32577	Pedro Miguel Figueiredo Amaral (a)													Finished
33101	Pedro Miguel Neaço Madruga (a)													Finished
32566	Raul Figueiredo Cordeiro de Magalhães Correia	✓	✓	✓	✓	✓	✓	✓	✓					Finished
33103	Regina Maria Frei Santos Barbosa (a)													Finished
33332	Silviano Francisco dos Santos Rafael (a)	✓												Finished
32656	Svetlana Roudolfovna Chernetova	✓	✓	✓	✓	✓	✓	✓	✓					Finished
32550	Tiago Oliveira Machado de Figueiredo Cardoso (a)													Finished
32584	Vitor Manuel de Oliveira Eralho	✓	✓	✓	✓	✓	✓	✓						Finished

(a) Student from pre-Bologna program



**Several students (as well as their supervisors and TACs) have not submitted the annual reports, despite being warned for being late.**

**Edition of 2010/2011:**

Nº	Name	Annual Progress Report												
		2010/11	2011/12	2012/13	2013/14	2014/15	2015/16	2016/17	2017/18	2018/19	2019/20	2020/21		
35499	Blanca Novakovi	✓	✓	✓	✓	✓								Finished

34339	Ehsan Shabnamnia	✓	✓	✓	✓	✓									
34752	Conceição Vitorino Nascimento Ventura (a)	✓													
35122	Hugo Tito Cordeiro	✓	✓	✓	✓	✓	✓								Finished
35771	Luís Miguel Rego Pinho (b)	✓	✓	✓	✓	✓	✓								Finished
35831	João Luis Alvarães de Melo (a)	✓	✓	✓	✓	✓	✓								Finished
35719	Luís Miguel Rego Pinho (b)	✓													
35171	Mariano Edgarda Silva Guedes (a)														
35276	Mariano Edgarda Silva Guedes (a)														
35852	Mário Jorge Saldanha Couto Alves (a)	✓	✓	✓	✓	✓									QUIT
35768	Mohammad Hadi Nategh (a)														
35666	Mohammad Hadi Nategh (a)	✓	✓	✓	✓	✓									Finished
35208	Pedro Mendes de Lacerda Peixoto de Magalhães	✓	✓	✓	✓	✓	✓								Finished
38741	Rafael Eduardo Capeta Faria Rato (a)		✓												Finished
35661	Rogério Alexandre Botelho Campos Baboia (a)	✓	✓	✓	✓	✓									Finished
33761	Somayeh Abdollahiyand	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	Finished
35851	Vitor Manuel Pereira Vaz da Silva	✓	✓	✓	✓	✓									Finished

\* Apparently M. Guedes, M. Carvalho, J. Virote, and M. Nategh have quit, but they didn't formalize their withdrawal.

(b) Student from pre-Bologna program



**Several students (as well as their supervisors and TACs) have not submitted the annual reports, despite being warned for being late.**

**Edition of 2011/2012:**

Nº	Name	Annual Progress Report													
		2011/12	2012/13	2013/14	2014/15	2015/16	2016/17	2017/18	2018/19	2019/20	2020/21				
38744	Adriana Catarina Gomes de Sá (a)	✓													Finished
38070	Élbio José Pinto da Silva	✓	✓	✓	✓										Finished
38345	Fernando Luis Lourenço Ferreira	✓	✓	✓	✓										Finished
38960	Luís Miguel Rego Pinho (b)	✓	✓	✓	✓	✓								QUIT +	
38346	Rogério Alexandre Botelho Campos Baboia (a)	✓	✓	✓	✓	✓	✓								Finished
38996	Luís Miguel Rego Pinho (b)	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	
38876	Luís Miguel Rego Pinho (b)	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	
38050	Massimiliano Zanni	✓	✓	✓	✓										Finished
38690	Miguel Alexandre Sousa Ferro de Beca	✓	✓	✓	✓	✓									Finished
38980	Miguel Alexandre Sousa Ferro de Beca	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	
38728	Nuno Manuel Orsega Amaro	✓	✓	✓	✓										Finished
38972	Rafael Eduardo Capeta Faria Rato (a)	✓													Finished
38691	Rafael Eduardo Capeta Faria Rato (a)	✓	✓	✓	✓										
38049	Sebastian Scholtz	✓	✓	✓	✓	✓									
38184	Sudeep Ghimire	✓	✓	✓	✓	✓									Finished
37772	Tahereh Nodehi	✓	✓	✓	✓										Finished
38063	Vitor Manuel Pereira Vaz da Silva	✓	✓	✓	✓	✓	✓	✓							



**Several students (as well as their supervisors and TACs) have not submitted the annual reports, despite being warned for being late.**

**Edition of 2012/2013:**

Nº	Name	Annual Progress Report													
		2012/13	2013/14	2014/15	2015/16	2016/17	2017/18	2018/19	2019/20	2020/21					
41203	Ali Abdollahy Gharbali	✓	✓	✓	✓	✓	✓								Finished
41185	Ali Abdollahy Gharbali	✓	✓	✓	✓	✓	✓								Finished
40964	Carolina Inês Marques de Lacerda	✓	✓	✓	✓										Finished
41116	Carolina Inês Marques de Lacerda	✓	✓	✓	✓	✓									Finished
41189	Tahereh Ghimire	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	Finished
41159	Tahereh Ghimire														
41192	Vitor Manuel Pereira Vaz da Silva	✓	✓	✓	✓	✓									Finished



41071	João Francisco Martinho Lêdo Guerreiro	✓	✓	✓	✓						Finished
39264	Konstantin Parsanov	Erasmus									
40662		✓	✓	✓	✓						
41199	Nuno Manuel Gonçalves Vilhena	✓	✓	✓	✓	✓	✓	✓	✓	✓	Finished
41200		✓	✓	✓	✓						Finished
41430	Ricardo André Martins Mendonça	✓	✓	✓	✓						
41198	Isabel Margarida de Almeida	✓	✓	✓	✓	✓					Finished
41507	Slavisa Tomic	✓	✓	✓	✓	✓					Finished

\* Apparently H. Tusi has quit, but he didn't formalize his withdrawal.



**Some students (as well as their supervisors and TACs) have not submitted the annual reports, despite being warned for being late.**

**Edition of 2013/2014:**

Nº	Name	Annual Progress Report								
		2013/14	2014/15	2015/16	2016/17	2017/18	2018/19	2019/20	2020/21	
43945	André Dionísio Bettencourt da Silva Rocha	✓	✓	✓	✓					Finished
44429	Edgar Miguel Felício Oliveira da Silva	✓	✓	✓	✓	✓	✓			Finished
43962	Luís Maria Machado de Jesus	✓	✓	✓	✓	✓	✓			
43621	Francisco Miguel Gonçalves de Aguiar	✓	✓	✓						
43984	Frederico João Gonçalves dos Santos Branco Martins									
43619	Luís Miguel de Jesus	✓	✓	✓						
44089	Kevin Pierre Nasorny	✓	✓	✓	✓	✓	✓	✓	✓	
43582	Leonardo Pedro Dinias-Brito Vilhena Martins	✓	✓	✓	✓	✓	✓			Finished
44126		✓	✓	✓	✓					Finished
44154	Nuno Ruben Pereira Pereira	✓	✓	✓	✓	✓	✓			Finished
44173	António Manuel de Jesus	✓	✓	✓	✓	✓	✓			Finished



**Several students (as well as their supervisors and TACs) have not submitted the annual reports, despite being warned for being late.**

**Edition of 2014/2015:**

Nº	Name	Annual Progress Report							
		2014/15	2015/16	2016/17	2017/18	2018/19	2019/20	2020/21	
46574	Ana Paula Diana Cordeiro	✓	✓	✓	✓	✓	✓	✓	
46657									
46416	António Jorge Teixeira Falcão	✓	✓	✓	✓				
46560	António Manuel de Jesus	✓	✓	✓	✓	✓	✓	✓	
46316	Bruno António Morzaquatro	✓	✓	✓	✓	✓	✓		Finished
46490									Quit
46533	Emmanuel Koutogi								
46471	Francisco Miguel Gonçalves de Aguiar	✓	✓	✓					
46575	Milica Muth								
46581		✓	✓	✓	✓	✓	✓		Finished
46678	Paulo Alves Fernandes	✓	✓	✓	✓	✓	✓	✓	Finished
46348	Paulo Manuel de Jesus	✓	✓					QUIT	
46651	Shirley Nandi	✓	✓	✓					Finished
46324		✓	✓	✓	✓	✓			



**Several students (as well as their supervisors and TACs) have not submitted the annual reports, despite being warned for being late.**

**Edition of 2015/2016:**

Nº	Name	Annual Progress Report						
		2015/16	2016/17	2017/18	2018/19	2019/20		2020/21
48978		✓	✓	✓				Finished
49139	Anselmo Rafael Cukla (b)							
48689		✓	✓	✓	✓			Finished
48872	Jose Teixeira Gonçalves	✓	✓	✓	✓	✓	✓	
48895		✓	✓	✓	✓	✓	✓	Finished
48801	Luís Miguel Gomes Tavares	✓	✓	✓	✓	✓	✓	
48305		✓	✓	✓	✓			Finished
49014	Mafalda Palma da Silva Viola Parrera (a)	✓	✓	Quit				
48938		✓	✓	✓	✓	✓	✓	Finished
48855		✓	✓	✓	✓			
48833	Mário José Marques da Costa (a)							Finished
48995		✓	✓	✓	✓	✓	✓	
48884								Finished
49015		✓	✓	✓				
49030	Pepe				✓			Finished
48889		✓	✓	✓	✓	✓	✓	



Several students (as well as their supervisors and TACs) have not submitted the annual reports, despite being warned for being late.

**Edition of 2016/2017:**

Nº	Name	Annual Progress Report					
		2016/17	2017/18	2018/19	2019/20	2020/21	
51334		✓	✓	✓	✓	✓	Finished
51324		✓	✓	✓	✓		
51567							Finished
51477	Korosh Aslansolai						
51443		✓				Quit	Finished
49255	Mojaba Pouyan					Quit	
51615		✓	✓	✓	✓		Finished
49331		✓	✓	✓	✓		



Most students (as well as their supervisors and TACs) have not submitted the annual reports, despite being warned for being late.

**Edition of 2017/2018:**

Nº	Name	Annual Progress Report				
		2017/18	2018/19	2019/20	2020/21	
53892	Ahmad Temoorzadeh					Finished
53858		✓				
54003		✓				Finished
54352	Fawaz Saleem Hassan Al-Jobory (a)					
53820	João Carlos de Fraga Gão da Silva	✓	✓	✓	✓	Finished
53873	João Pedro Lima Almeida de Menezes (a)	✓	✓	✓		
53967	Jose Augusto Indio					Finished
53856						

53556	Mohammad Reza Shahrokhi Yeeaneh				
52272	Arash Ghahramani				
54130	Nuno Miguel Mendes Correia				
53836	Arash Ghahramani	✓	✓	✓	✓



**Most students (as well as their supervisors) have not submitted the annual reports, despite being warned for being late.**

**Edition of 2018/2019:**

Nº	Name	Annual Progress Report		
		2018/19	2019/20	2020/21
54815	Akashkumar Rajaram	✓	✓	✓
56656	Aleides Teixeira Goncalves			
55073	Arash Ghahramani			
56413	Carolina Isabel Lagartinho de Oliveira	✓	✓	✓
54753	Diana Filipa Romão Pedro	✓	✓	✓
54463	Luís Gonçalves			
56395	Arash Ghahramani	✓		
56370	Guilherme André Marques Moreira			
56422	Helena Paço Pereira			Quit
56365	Guilherme André Marques Moreira	✓		
56412	Guilherme André Marques Moreira	✓	✓	✓
56492	Luís Miguel Lopes Mateus	✓		
56419	Mohammed Shihab Ahmed Al-Saadi (*)			
54822	Mohammed Shihab Ahmed Al-Saadi (*)			
56437	Yasmin Hossain			
56275	Sonia Hosseinpour	✓		



**Most students (as well as their supervisors) have not submitted the annual reports, despite being warned for being late.**

**Edition of 2019/2020:**

Nº	Name	Annual Progress Report	
		2019/20	2020/21
58917	Ali Gashisbi	✓	
58902	Arash Ghahramani	✓	✓
59034	Carlos Nuno de Paiva Marques		
58990	Daniel Viana Dias	✓	✓
58859	Paulo Sérgio Dias	✓	✓
58829	Guilherme Simões Calado de Brito		
58816	João Eduardo Albuquerque Martins Pereira Braga	✓	✓
57424	Kwabena Amoako Kyeremeh		
58986	Arash Ghahramani		
58997	Qasr Nasrollahi		
59004	Pedro Correia Ferreira		
58814	Ricardo Alexandre Sacoto Martins		Quit



**Most students (as well as their supervisors) have not submitted the annual reports, despite being warned for being late.**



**Many students do not have a supervisor yet.**

**Edition of 2020/2021:**

Nº	Name	Annual Progress Report
		2020/21
61395	Amalendu	
59359	Behnam Johari	
61255	Behrooz Samad	✓
61120	Carolina Rosario Coelho Xavier de Carvalho	
59433	Daniel Gonçalves Pita Santos de Almeida	✓
61248	David Barros Leonardo	✓
61247	Diogo Filipe Cardoso Pereira	✓
61144	Enzo Rafael Martins de Sousa	✓
59389	Florinda Miguel da Silva Lima	
61139	João Filipe de Carvalho Madeira	✓
61206	Jorge Miguel da Silva Calado	✓
61257	Leandro Henrique Momeiro Filipe	✓
61117	Luis Carlos Guimaraes Lourenco	
61251	Miguel Alexandre Gonçalves Lourenco	✓
61214	Rafael Joaquim Oliveira Rodrigues	✓
61106	Raquel Alexandra Abrantes Machado	
61204	Scandeh Kalash Seifani	
61283	Seyed Masoud Ardestani	
59335	Srinivas	✓
61124	TEREIN BABU PULIKOTIL	
61217	Walid Gaboul	



**Most students (as well as their supervisors) have not submitted the annual reports, despite being warned for being late.**



**Many students do not have a supervisor yet.**

# 7. CONDITIONS FOR PhD SUPERVISION

Based on the experience of the previous years, and in order to improve the quality of the supervision process, the Scientific Committee of PDEEC decided (in 2014) to define more strict conditions under which it will approve future proposals for PhD supervision:

## **1) Limits**

A supervisor should not have more than 6 PhD students full-time under his/her supervision.

In the case of co-supervision, each student counts 50%.

Likewise for the case of part-time students.

## **2) Required experience and activity level**

Like what is practiced in many other universities, the Scientific Committee considers that junior doctors without supervision experience should not start as main supervisors. Furthermore, a PhD supervisor needs to be an active researcher with adequate productivity. Therefore, **in order to qualify as main supervisor** a doctor should:

- Have successfully supervised / co-supervised at least one student.
- Have at least 2 journal papers indexed in the Science Citation Index during the last 3 years.

Unexperienced doctors, candidates to a first supervision, should:

- Be co-supervisors (naturally in collaboration with an experienced supervisor).
- Have at least 2 journal papers indexed in the Science Citation Index during the last 3 years.

## **3) Performance regarding the annual progress reports**

Despite the many requests from the Program Coordinator and Secretarial support, we continue noticing that a large number of students are not submitting their annual progress reports (and supervisor's/TAC assessment) on time. In order to improve this situation, any future proposal coming from a supervisor with missing reports **will be kept suspended** until the situation is resolved.



Conditions 1) and 2) started to be applied in 2014/2015.



Condition 3) started to be applied in 2016/2017. Consequently, several cases were solved, but for the current year we notice several delays again.

## 8. CANDIDATES 2021 / 2022

### 8.1 Applicants

For the new academic year (14<sup>th</sup> edition), PDEEC received the following applications:

- Phase 1: 11 (accepted 6)
- Phase 2: 11 (accepted 9)
- Phase 3: *still ongoing (till end Feb 2022)*

The received applications in the first two phases had the following geographic origin:

- Angola: 3
- India: 2
- Italy: 1
- Iran: 6
- Mozambique: 2
- Pakistan: 1
- Portugal: 7

It is still unclear how many of the accepted candidates will actually enroll in the program, as some of them are waiting for visa to come to Portugal, others waiting for defense of MSc theses, and others are waiting for confirmation of a scholarship (until 31 Dec, 12 students are enrolled).

The process of getting a **visa**, which is not at all agile from the side of our Embassies and Ministry of Foreign Affairs (through “SEF”), continues to be a **major obstacle** for the smooth starting of each academic year. Although the academic year of 2021/2022 will only start in Jan 2022, some students are still waiting for visa. To minimize the problem, the initial classes will be online.

### 8.2 Assistance to foreign students

Foreign students face a number of difficulties when dealing with the Portuguese bureaucracy. As such it would be important to have an Office / Service, **preferably at the Faculty level**, to support these students. The support services could include, for instance:

- a) Support during application phase
  - Provision of elements to get the visa at Portuguese embassies.
  - Establishment of contacts with SEF (“Serviço de Estrangeiros e Fronteiras”) to expedite the visa granting processes.
  - Assistance with (initial) accommodation search and booking.
  - Provision of information about possible scholarships and other resources.
  - Assistance regarding the official documents the candidates need to bring.
- b) Support on arrival
  - Guided tour through the campus and assistance with enrollment process.
  - Help with accommodation.
  - Assistance with the processes to get fiscal number, bank account, etc.
  - Assistance with transportation tickets and options.
  - Help interfacing the social security and health care services.

- Etc.
- c) During the stay
  - Assistance with family issues (kinder garden, etc.).
  - Help interfacing the various services of FCT.
  - Guidance for those that want to stay in Portugal after finishing the PhD.
  - Etc.

Currently, foreign students ask help from the program coordinator and/or supervisor, but this is not enough.

**A suggestion to create such office was made to the former Management Board of FCT-NOVA in previous years, but no answer was received.**

**The same proposal was made to the current Board, but no answer yet.**

**The accreditation office (A3ES) also emphasized the importance of having such office.**

## 9. CONCLUDING REMARKS

Considering the status described above and the acquired experience with previous editions, it is possible to draw some conclusions:

- **Attraction of candidates.** PDEEC continues to be successful in attracting candidates, namely in comparison with other sectors of the Faculty and in comparison with similar programs in other national universities. In recent years, the number of foreign candidates has been higher than Portuguese candidates, which is a good sign of our attraction capability.
- **Recruitment space.** In order to guarantee sustainability, especially in periods of economic crisis and lack of scholarships, it is necessary to reconsider the traditional recruitment space, as well as the profile of potential candidates. A stronger emphasis needs to be put in two directions:
  - recruitment of foreign candidates, and
  - increasing the number of PhDs in cooperation with industry.

The recruitment of foreign students contributes to a cultural enrichment and the introduction of new experiences and working methods. A higher percentage of foreign students will also contribute to increase the external visibility and prestige of our program. A higher percentage of PhDs developed in an industrial context will contribute to re-enforce links with companies, facilitate research that addresses relevant societal challenges, and might mitigate the economic constraints. There are however a number of obstacles:

- Our embassies make it very difficult for candidates to get a visa to study in Portugal. PDEEC has attracted a good number of foreign candidates every year, probably as a result of the good references given by other students already in Portugal, but only in a few cases it was possible to overcome the obstacles raised by our Embassies. FCT-NOVA should implement more proactive mechanisms to help overcoming these difficulties. In fact, like other universities, **FCT-NOVA should have an Office to really support foreign students** during all phases of their career with us. **Until now, such Office was not established and remains an urgent issue, as recommended by A3ES.**
  - Some foreign candidates are not able to find a scholarship or fund themselves. As such, we often loose some candidates with very good potential.
  - Current regulations of FCT-NOVA limiting the number of years that a student can be in the part-time regime (or at least making it more bureaucratically complicated), do not facilitate the process of having PhD research in industrial contexts. Such limits can be overcome, but it requires additional bureaucracy and does not give a clear signal that such type of PhDs is welcome.
- **Annual tuition fee.** The possibility of having the tuition fee waived used to be a key element in the attraction of candidates from the academic staff of the Polytechnic Institutes of Lisbon and Setubal. However, this market is exhausted now. Considering the importance of PhD students for the Faculty (contributors to publications, researchers in projects, re-enforcement of research teams, help in attracting new projects, etc., thus contributing significantly to the ranking of the university), **it would**



**make sense to reconsider the current policy regarding tuition fees**, namely when we consider the competition at the European level.

- **In various European countries, with universities that are better positioned in most of the international rankings, PhD students do not pay tuition fee.** That is the case, for instance, of Netherlands in which not only they do not pay but even receive a good salary. The current policy of our university to keep the tuition fee for foreign students (not members of the European Union) equal to the fee for national students is a good progress, but other “creative” options should be considered.
- **Recently, the Management Board of FCT-NOVA drastically reduced the possibilities for students to apply for reduced tuition fee, which is a major limitation and goes against the practice in competing countries.**
- The efforts of the Center of Technology and Systems (CTS), namely through colleagues with H2020 projects, to provide some scholarships are regarded as a very valuable contribution.
- The policy of FCT-NOVA of returning part of the tuition fee to be used by the PDEEC coordination to support the PhD activities of students (e.g., support attending conferences, etc.) during 2014-2016 was very beneficial. This was in fact one of the recommendations of the PhD accreditation agency A3ES. **Unfortunately, recently this practice is only implemented with long delays.**
- **Recently (18 Dec 2020), the Management Board of FCT-NOVA substantially reduced the percentage of the tuition fee that is made available to PDEEC, which is another obstacle for the success of the program. Unfortunately, the coordinators of the PhD programs at FCT-NOVA are never heard by the institution about the impact of such decisions.**
- On the other hand, the waving of tuition fee (namely in the case of special protocols with Polytechnic Institutes) should be cancelled in case the student does not achieve a reasonable and timely progress. This seems to have been changed, but the coordinators of the PhD programs were not informed.

■ **Quality of supervision.** It is necessary to continue the efforts towards improving the role of the supervisors and TACs in the monitoring of the progress of students, namely in the first year. Most students do not finish the courses part in the first year, as planned in the program, and this needs to be changed. It seems that **most supervisors only care for the research part** of the work and pay little attention to the delays in the courses part.

- Delays in finishing the courses part will definitely affect the quality of the research, as those initial studies are designed to provide a sound basis for the research work.
- A particularly critical situation refers to the *Research Planning* activity and the preparation of its main outcome, the **Thesis Plan**, to be defended in a public seminar. Many students, often influenced by their supervisors, postpone the defense of their Thesis Plan to a very late stage. In these cases, although the corresponding reports might impress by the amount of research done, they **completely fail** the purpose of a Thesis Plan. Sometimes these plans are submitted so late that there is not much chance for the TAC to make any feasible suggestions anymore. **It is therefore necessary that all supervisors pay more attention to this issue and properly perform their supervision role.**
- In a few cases, there are supervisors with an excess of students under their supervision. Our experience shows that this situation often leads to a less effective supervision. It is necessary to clearly distinguish between the capability of performing an effective scientific supervision, and the economic capacity to attract collaborators when supervisors have funded projects! The fact that a supervisor is successful in attracting substantial amounts of money **is not** an automatic guarantee that he/she is able to supervise a large number of students with the required scientific quality. During the first editions of the program, some *soft approaches* were attempted to improve this situation, although not always successful. The current criteria adopted by the Scientific Committee of PDEEC regarding approval of supervision proposals,

which are in line with common practices in various other universities, are expected to have a positive effect. **Nevertheless, this issue is rather delicate and requires continuous attention.**

- **Despite the effort put in the monitoring process and drawing attention to the various participants in the program, the Coordinator of PDEEC does not have any other instruments to ensure the quality principles. As a result, it is very frustrating to see the continuation of “red marks” in various zones of this report.**

■ **Joint PhDs.** Current regulations at NOVA regarding joint PhDs do not facilitate the establishment of agreements with other universities. Although some of the academic staff of the Electrical Engineering Department have good international links and are involved in some co-supervision activities with other universities, this is done at individual level, without direct benefit to FCT-NOVA. In the last few years, we managed to get a few of these agreements, but the process was rather slow. Considering the importance of re-enforcing international cooperation links, this area should deserve more attention from FCT-NOVA governance bodies in order to establish agile procedures.

■ **PhDs in industrial context.** Following the recommendations of A3ES, a working group shall be launched by the Scientific Committee of PDEEC *“to analyze and propose solutions to find a way to reconcile the quality requirements of a doctorate with the restrictions and specific characteristics of research work carried out in an industrial context”*.

■ **A word of appreciation.** A word of “thank you” to the secretarial support provided by **Mrs Ana Cristina Silva and Mrs Paula Simão**.

### The importance of PDEEC

High quality Doctoral Programs are fundamental for the strategy of any “research-oriented university”. PhD research works are important instruments in the creation of new knowledge and preparation of scientific publications. The past editions of PDEEC clearly show such evidence, with a substantial increase of the scientific productivity of our Department.

On the other hand, the external feedback from colleagues of other universities regarding the structure and ambition of our program, has been very positive and encouraging.

As such, our Department should continue dedicating significant efforts to this initiative. The investments in PDEEC are likely to have a high return.

**On the other hand, the noticed obstacles, namely at the institutional level, are difficult to understand. Lack of proper support for the PhD programs inhibits the affirmation of any university as a “research-oriented” institution.**