IC1301 - WiPE
Wireless Power Transmission for Sustainable Electronics

Grant Holder Presentation

Pedro Miguel Cruz
Institute of Telecommunications – University of Aveiro
Instituto de Telecomunicações (IT)

» Mission

To create and disseminate scientific knowledge and foster advanced training in the field of telecommunications
Instituto de Telecomunicações (IT)

- Instituto Superior Técnico (IST)
- University of Aveiro (UA)
- Faculty of Sciences and Technology, University of Coimbra (UC)
- Portugal Telecom Inovação (PTIN)
- Nokia Siemens Networks (NSN)
- University of Beira Interior (UBI)
- University of O’Porto (UP)
- Instituto Superior de Ciências do Trabalho e da Empresa (ISCTE)

IT Sites

Aveiro | Coimbra | Lisboa

Members

Private Association – Not for Profit – Public good – Associate Laboratory
IT-Aveiro Internal Scientific Organization

- Networks & Multimedia
- Wireless Communications
- Enabling Technologies & Basic Sciences
- Optical Communications
### IT-Aveiro Personnel Resources

#### Aveiro Site

<table>
<thead>
<tr>
<th>Year</th>
<th>Professors</th>
<th>Researchers</th>
<th>Post Doc Students</th>
<th>PhD Students</th>
<th>Master Students</th>
<th>Research Technician</th>
<th>Administrative Staff</th>
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<td>31</td>
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<td>2009</td>
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IT-Aveiro Publications

Aveiro Site

<table>
<thead>
<tr>
<th>Year</th>
<th>International journals/Books/Books chapters</th>
<th>Conferences</th>
<th>Patents</th>
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<td>2006</td>
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<tr>
<td>2007</td>
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<tr>
<td>2010</td>
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<td>130</td>
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</table>
## IT-Aveiro Funding (2006 – 2010)

<table>
<thead>
<tr>
<th>Year</th>
<th>Pluriannual</th>
<th>National Projects</th>
<th>European Projects</th>
<th>Industry</th>
<th>Scholarships</th>
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<tbody>
<tr>
<td>2006</td>
<td>€112.000,00</td>
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<td>€1.603.334,77</td>
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<td>2007</td>
<td>€144.000,00</td>
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<td>2008</td>
<td>€166.500,00</td>
<td>€1.285.995,66</td>
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<td>€617.420,64</td>
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<td>2009</td>
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<td>€1.077.817,70</td>
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<td>€898.996,70</td>
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<td>2010</td>
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<td>€903.945,14</td>
<td>€1.144.525,13</td>
<td>€637.485,50</td>
<td>€24.078,83</td>
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**IT-Aveiro**  **EU 7th FP - ICT “top-10”**

<table>
<thead>
<tr>
<th>Entities with more participation in projects</th>
<th>Entities of the higher budget projects</th>
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<tbody>
<tr>
<td>Alcatel-Lucent</td>
<td>Ericsson</td>
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<tr>
<td>Nokia-Siemens</td>
<td>Alcatel-Lucent</td>
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<tr>
<td>Ericsson</td>
<td>France Telecom</td>
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<tr>
<td>Telefonica</td>
<td>Commissariat à l’Energie Atomique (CEA)</td>
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<tr>
<td>Fraunhofer Institute</td>
<td>Nokia-Siemens</td>
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<tr>
<td>France Telecom</td>
<td>Fraunhofer Institute</td>
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<td>Universitat Politecnica de Catalunya</td>
<td>Thales</td>
</tr>
<tr>
<td><strong>Instituto de Telecomunicações</strong></td>
<td>Telefonica</td>
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<tr>
<td>Commissariat à l’Energie Atomique (CEA)</td>
<td><strong>Instituto de Telecomunicações</strong></td>
</tr>
<tr>
<td>Groupe des Ecoles des Telecommunications (GET)</td>
<td>Motorola</td>
</tr>
<tr>
<td>Motorola</td>
<td>NEC</td>
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<tr>
<td>Interdisciplinair Instituut voor Breeband Technologie (IBBT)</td>
<td>Interdisciplinair Instituut voor Breeband Technologie (IBBT)</td>
</tr>
</tbody>
</table>
Institute of Telecommunications
Highlights

http://www.ua.pt/it
IT-Aveiro Highlights

» 10Gb/s WDM PON ONT: internet @ “light speed”

> Prototype demonstration
> Supported by Portugal Telecom
SKA – Square Kilometer Array: the world’s largest telescope

- It is one of five major scientific projects of the century, with the participation of Portugal
- It is a telescope that will spread a circle of 3000 km in diameter and will be ready in 2020
Cochlear Radio: an analog to digital converter system for SDR

This work was awarded the 1st 2010 Plug prize for developments in the telecommunications sector from APRITEL
Fraunhofer Portugal Challenge 2011 – Awarded Ideas

> PhD Category
  + 1st Place: “Electronic Marketplace for Teleradiology Services”, Daniel Polónia
  + 2nd Place: “Visible Light Communication for Advanced Driver Assistance Systems”, Navin Kumar

> MSc Category
  + 1st Place: “Design of a Battery-free Wireless Sensor Node”, Ricardo Fernandes
IT-Aveiro Highlights

» IEEE MTT-S International Microwave Symposium 2013: Student Awards

> IEEE MTT-S Graduate Fellowship
  + Alírio Boaventura (PhD Student)

> Student Competition: SDR and DSP Design - Undergraduate Competition
  + André Prata (MSc Student)

> Student Competition: SDC-LSNA MTT-11 Measurement Competition
  + Diogo Ribeiro (PhD Student)
Grant Holder Information

http://www.ua.pt/it
Grant Holder Information

» Before / during the meeting

> Please answer as soon as possible in e-cost platform, so that we can fund the maximum number of people
> Please sign the attendance list everyday if not reimbursement cannot be processed
> Preferably deliver the original TRR form signed (in blue) in person

» After the meeting

> If not delivered at meeting, TRR form should be mailed by post until 30 days after the meeting to get the reimbursement
> Send by email all the receipts of plane, transportation, taxi, car rental and maps, etc.
> Reimbursements will be made only after the TRR form is delivered
> IT will adhere to ONLINE STRONG AUTHENTICATION TRR FORMS
Grant Holder Information

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Acknowledgment

Grateful for your Attention!