

Name	Degree	% participation
António Manuel Dias Pinto Rodrigues	Doctorate researcher	100%

## Participation in the ITER project

### Summary and highlights of research achievements

The integration of the Intelligent Platform Management Controller (IPMC) module based in the Intelligent Platform Management Controller Bus Protocol (IPMB) in several IPFN ATCA modules was started. The hardware integration is done. The communication with the Shelf-Manager is established and the software protocol of the IPMI standard developed in the IPMC module is almost fully tested. This includes the power management protocol between the IPMC and the Shelf Manager needed for hotswap feature in the ATCA modules.

## Papers in international refereed scientific journals

Author(s)	Miguel Correia, Jorge Sousa, António P. Rodrigues, Álvaro Combo, António J.N. Batista, Bruno Gonçalves, Carlos A.F. Varandas, Carlos M.B.A. Correia
Paper title	xTCA-compliant PCIe hub/controller for Physics CODAC subsystems
Journal name	Fusion Engineering and Design
Volume, page	86, Issues 6-8, 1351-1354
Year	2011

Author(s)	Miguel Correia, Jorge Sousa, António P. Rodrigues, Álvaro Combo, António J.N. Batista, Bruno Gonçalves, Carlos A.F. Varandas, Carlos M.B.A. Correia
Paper title	ATCA-Based Hardware for Control and Data Acquisition on Nuclear Fusion Fast Control Plant Systems
Journal name	Nuclear Science, IEEE Transactions on
Volume, page	58 Issue:4, 1701 - 1705
Year	2011

Author(s)	B. Gonçalves, J. Sousa, B.B. Carvalho, A.P. Rodrigues, M. Correia, A. Batista, J. Vega, M. Ruiz, J.M. López, R. Castro, A. Wallander, N. Utzel, P. Makijarvi, S. Simrock, A. Neto, D. Alves, D.F. Valcárcel, P. Lousã, F. Piedade, L. Fernandes, et al.
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Paper title	ITER prototype fast plant system controller
Journal name	Fusion Engineering and Design
Volume, page	86, Issues 6-8, 556-560
Year	2011

Author(s)	B. Gonçalves, J. Sousa, B.B. Carvalho, A.P. Rodrigues, M. Correia, A. Batista, J. Vega, M. Ruiz, J.M. Lopez, R. Castro Rojo, A. Wallander, N. Utzel, A. Neto, D. Alves, D. Valcarcel.
Paper title	Engineering Design of ITER Prototype Fast Plant System Controller
Journal name	Nuclear Science, IEEE Transactions on
Volume, page	58, Issue 4, Part:1, 1439 - 1446
Year	2011

Author(s)	A.P. Rodrigues, M. Correia, A. Batista, J. Sousa, B. Goncalves, C.M.B. Correia, C.A.F. Varandas.
Paper title	Intelligent Platform Management Controller for Nuclear Fusion Fast Plant System Controllers
Journal name	Nuclear Science, IEEE Transactions on
Volume, page	58, Issue 4, Part:1, 1733 - 1737
Year	2011

## Conference

### Posters

Conference	IAEA 8th Technical Meeting on Control, Data Acquisition and Remote Participation for Fusion Research
Start-end date	20-24 June 2011
Location	San Francisco, USA
Author(s)	A. J. N. Batista, C. Leong, V. Bexiga, A. P. Rodrigues, A. Combo, B. B. Carvalho, J. Fortunato, M. Correia, J. P. Teixeira, I. C. Teixeira, J. Sousa, B. Gonçalves, C. A. F. Varandas
Poster title	ATCA PICMG3.4 / AXIe compatible blade for Fast Control and Data Acquisition in Nuclear Fusion Experiments