

Proyecto SVC-WIRELESS ("*Scalable Video Coding over Wireless Systems*")



The overall aim of this project is to investigate multimedia content coding techniques (e.g. MPEG-2, H264/AVC or SVC) and wireless MIMO system coding techniques (space-time coding, pre-coding, etc.). We will jointly optimise these techniques so as to improve the relationship between quality and transmission rates. The proposed investigation will go beyond the sphere of theoretical formulation and computer-simulated trials, including as it does the study and development of solutions in a real-world environment, using for this purpose the testbed developed by the group itself.

Beginning: November, 2010.

End: October, 2013.

Main Researcher: [Adriana Dapena Janeiro](#) .

Participating Entities: Universidade da Coruña.

Colaborators:

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Related publications:

Paula M. Castro, José A. García-Naya, Adriana Dapena, Daniel Iglesia, "Channel Estimation

Techniques for Linear Precoded Systems: Supervised, Unsupervised and Hybrid Approaches", *Signal Processing*, vol. 91, issue 7, July 2011, pp. 1578-1588, ISSN: 0165-1684, DOI: [10.1016/j.sigpro.2011.01.001](https://doi.org/10.1016/j.sigpro.2011.01.001)

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Adriana Dapena, Paula M. Castro, José A. García-Naya, "Hybrid Supervised-Unsupervised Channel Estimation Scheme with Dynamic Transmission of Pilots", *Neural Processing Letters*, Volume 33, Issue 1, pp 1-15, Feb. 2011. Springer, ISSN: 1370-4621, DOI: [10.1007/s11063-010-9161-x](https://doi.org/10.1007/s11063-010-9161-x), DOI (electronic publication): [10.1007/s11063-010-9164-7](https://doi.org/10.1007/s11063-010-9164-7)

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