

# **CURRICULUM VITAE**

## **PERSONAL DATA**

Name: **Marko Beko**  
Birth date: November 11th, 1977  
Sex/marital status: Male/Single  
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## **PROFESSIONAL EXPERIENCE**

### **Assistant Professor**

Department: Computer Engineering.  
Institution: Universidade Lusófona de Humanidades e Tecnologias, Lisbon.  
Starting date: March 2009.

### **Adjunct Professor**

Department: Electrical Engineering.  
Institution: Instituto Politécnico de Leiria, Leiria, Portugal.  
Starting-Finish date: March 2008-February 2009.

## **EDUCATION**

### **Ph. D.**

Department: Electrical and Computer Engineering.  
Specialization: Signal processing, Telecommunications.  
Institution: Instituto Superior Técnico, Lisbon Technical University, Portugal.  
Conclusion date: February 2008.

## **GENERAL RESEARCH INTERESTS**

Communication Theory, Signal Processing, Information Theory

## **GRANTS AND AWARDS**

- **IBM Portugal 2008 Scientific Award**
- FCT (The Portuguese Foundation for Science and Technology) Grant to pursue research activities at Instituto de Sistemas e Robótica (ISR) leading to a Ph.D. degree by Instituto Superior Técnico (IST) of the Technical University of Lisbon, April 2004-February 2008

- ISR/IST Research Assistantship Grant, April 2002--March 2004
- Faculty awards for results achieved during the academic period 1996-2000 and 2000-2001
- Award for the first place (100% efficiency) in Mathematics entry examination for the Faculty of Electrical Engineering, Belgrade, October 1996

## **PUBLICATIONS**

M. Beko, J. Xavier, V. Barroso, "Codebook Design for Non-Coherent Communication in Multiple-Antenna Systems", IEEE International Conference on Acoustics, Speech, and Signal Processing (ICASSP), Toulouse, France, May 14-19, 2006.

M. Beko, J. Xavier, V. Barroso, "Codebook design for the non-coherent GLRT receiver and low SNR MIMO block fading channel", IEEE Seventh Workshop on Signal Processing Advances in Wireless Communications (SPAWC), Cannes, France, July 2-5, 2006.

M. Beko, J. Xavier, V. Barroso, "Non-coherent Communication in Multiple-Antenna Systems: Receiver design and Codebook construction", IEEE Transactions on Signal Processing, vol. 55, no. 12, pp. 5703 - 5715, Dec.2007.

M. Beko, J. Xavier, V. Barroso, "Capacity and error probability analysis of noncoherent MIMO systems in the low SNR regime", IEEE International Conference on Acoustics, Speech, and Signal Processing (ICASSP), Honolulu, Hawaii, USA, April 15 - 20, 2007.

M. Beko, J. Xavier, V. Barroso, "Further results on the capacity and error probability analysis of non-coherent MIMO systems in the low SNR regime", IEEE Transactions on Signal Processing, vol. 56, no. 7, pp. 2915 - 2930, Jul.2008.

M. Beko, J. Xavier, V. Barroso, "Low SNR analysis of the non-coherent MIMO channel under arbitrary channel and noise correlation structures", IEEE Ninth Workshop on Signal Processing Advances in Wireless Communications (SPAWC), Recife, Brasil, July 6-9, 2008.

## **PUBLICATIONS (cont.)**

M. Beko, J. Xavier, V. Barroso, "Codebook Design for Communication in Spread and Nonspread Space-Time Block Codes-based systems", IEEE Sixth International Symposium on Wireless Communication Systems (ISWCS), Siena, Italy, September 7-10, 2009.

## **PROJECTS**

- ADCOD - Advanced Code and Receiver Designs for Transmission over Selective Radio Channels.
  - Status: approved by FCT (Inv. Responsável).
- PALS: Principles and Applications of Physical-Layer Security
  - Status: submitted to FCT

## **TEACHING ACTIVITIES**

*Universidade Lusófona de Humanidades e Tecnologias*

- March 2009 – June 2009: course "Signal Processing"

*Instituto Politécnico de Leiria*

- October 2008 – January 2009: course "Telecommunication Systems"
- October 2008 – January 2009: course "Mobile Communications"
- March 2008 – June 2008: course "Telecommunication Systems"
- March 2008 – June 2008: course "Electrical Circuits"