

CURRICULUM VITAE

Luis Miguel San-José-Revuelta
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SURNAMES: San-José-Revuelta **NAME:** Luis Miguel

DATE OF BIRTH: 31 – 1- 1973

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EDUCATION:

- **PhD**, University of Valladolid. Department of Teoría de la Señal y Comunicaciones e Ingeniería Telemática. 2001.
- **MEng.** Telecommunications engineering. University of Valladolid. 1996.
- **Education Certificate** (C.A.P.). Area of Teaching Education. University of Valladolid. 1997.

Languages:

- English: good level of understanding, speaking and writing

Positions:

- **(Feb. 97 - Apr. 97) Westinghouse Sistemas Energéticos, Inc.**
- **(May 97 – October 99) PhD Student grant at University of Valladolid.** Subject: “*Avanced Signal Processing Techniques Applied to Telecommunication Problems*”. (Adviso.: *Dr. Jesús Cid-Sueiro, Escuela Politécnica Superior, Univ. Carlos III of Madrid - E-mail: jcid@tsc.uc3m.es*).
- **(4 Noviembre 1999 – 3 Noviembre 2001) Profesor Ayudante de E.U.** en el Departamento de Teoría de la Señal y Comunicaciones e Ingeniería Telemática de la E.T.S. Ing. de Telecomunicación de la Universidad de Valladolid.

- **(November 2001 – March 2006) Assistant Profesor, full time**, Department of Teoría de la Señal y Comunicaciones e Ingeniería Telemática, Telecommunication Engineering School, University of Valladolid.
- **(March 2006 –) Associate Profesor, full time**, Department of Teoría de la Señal y Comunicaciones e Ingeniería Telemática, Telecommunication Engineering School, University of Valladolid.

Teaching:

Under-graduate courses:

1. **Course:** Analysis and Syntesis of Electrical Circuits I
Dates: 1999/2000
Department: Teoría de la Señal y Comunicaciones e Ingeniería Telemática, University of Valladolid
2. **Course:** Signal Theory of Linear Systems
Dates: 1999/2000
Department: Teoría de la Señal y Comunicaciones e Ingeniería Telemática, University of Valladolid
3. **Course:** Analysis and Syntesis of Electrical Circuits
Dates: 2000/2001 - today
Department: Teoría de la Señal y Comunicaciones e Ingeniería Telemática, University of Valladolid

PhD courses:

Under-graduate courses:

1. **Course:** Biological Effects of Electromanetic Fields
Dates: 2002/2003, 2003/2004.
Department: Teoría de la Señal y Comunicaciones e Ingeniería Telemática, University of Valladolid
2. **Course:** Advanced Signal Processing and its Applications (adaptive filter theory)
Department: Teoría de la Señal y Comunicaciones e Ingeniería Telemática, University of Valladolid
Dates: 2003/2004, 2004/2005, 2005/2006 y 2006/2007.
3. **Course:** Evolutionary Computation Applied to Engineering Problems
Department: Teoría de la Señal y Comunicaciones e Ingeniería Telemática, University of Valladolid
Dates: 2005/2006 y 2006/2007.

Publications:

Books:

- Luis M. San José Revuelta, “*Synthesis of frequency-selective filters. Analog and digital*”, Secretariado de Publicaciones e Intercambio Editorial, University of Valladolid. ISBN 84-8448-247-2. 361 pages, 2003.

Book chapters:

1. L. M. San José-Revuelta and J. Cid-Sueiro, “*Neuro Bayesian Blind Equalization with BER Estimation in Digital Channels*”, in *Neural Networks and Signal Processing IX*. Editors: Y. H. Hu, J. Larsen, E. Wilson, S. Douglas. Publisher: IEEE Signal Processing Society. pp. 333-342, 1999. ISBN: 0-7803-5673-X.
2. L. M. San José-Revuelta and J. Cid-Sueiro, “*Bayesian and RBF Structures for Wireless Communications Detection*”, in *Neural Networks and Signal Processing XIII*. Editors: C. Molina, T. Adali, J. Larsen, M. Van Hulle, S. Douglas, J. Rouat. Publisher: IEEE Press. pp. 749-758, 2003. ISBN: 0-7803-8178-5.
3. L. M. San José-Revuelta and N. Cañibano, “*Analysis of a Bayesian Multiuser Detector for Non-Data-Aided CDMA Communications*”, in *Machine Learning for Signal Processing XIV*. Editors: A. Barros, J. Principe, Jan Larsen, T. Adali, S. C. Douglas. Publisher: IEEE Press. pp. 705-714, 2004. ISBN: 0-7803-8609-4.
4. L. M. San José-Revuelta, “*Hypotheses Control-Based Strategies for the Simplification of Bayesian Multiuser Detectors*”, in *Machine Learning for Signal Processing XV*. Editors: V. Calhoun, T. Adali, J. Larsen, D. Miller, S. Douglas. Publisher: IEEE. pp. 129-134, 2005. ISBN: 0-7803-9518-2.

Journals:

1. J. Cid-Sueiro, L. M. San José-Revuelta y A. R. Figueiras-Vidal, “*Soft-Decision Bayesian Equalizers for In-Service Error Rate Monitoring*”, *Signal Processing*, vol. 80, No. 4, pp. 741-744, April 2000.
2. L. M. San José-Revuelta and J. Cid-Sueiro, “*A Neuro-Evolutionary Framework for Bayesian Blind Equalization in Digital Communications*”, *Signal Processing*, vol. 83, No. 2, pp. 325-338, Feb. 2003.
3. L. M. San José-Revuelta and J. Cid-Sueiro, “*Robust Joint Channel and Noise Estimation in Bayesian Blind Equalizers*”, *Signal Processing*, vol. 84, No. 3, pp. 535-548, Mar. 2004.
4. L. M. San José-Revuelta, “*Entropy-Guided Micro-Genetic Algorithm for Multiuser Detection in CDMA Communications*”, *Signal Processing*, vol. 85, No. 8, pp. 1572-1587, August. 2005. (I.F.: 0.694)
5. L. M. San José-Revuelta, “*A New Adaptive Genetic Algorithm for Fixed Channel Assignment*”, Accepted in *Information Sciences*, vol. XX, No. XX, pp. XXXX-XXXX.

Conference papers:

1. L. M. San José-Revuelta and J. Cid-Sueiro, “*Robust Blind Bayesian Channel Equalization Based on Evolutionary Strategies and On-Line BER Estimation*”, Proc. Int’l. COST 254 Workshop on Intelligent Communication Technologies and Applications, with Emphasis on Mobile Communications, Neuchâtel, Suiza, pp. 150-155, May 1999.
2. L. M. San José-Revuelta and J. Cid-Sueiro, “*Neuro Bayesian Blind Equalization with BER Estimation in Digital Channels*”, Proc. Int’l. IEEE Workshop on Neural Networks and Signal Processing, NNSP 1999, Madison, WI, EE.UU., pp. 333-342, August 1999.
3. L. M. San José-Revuelta, J. Cid-Sueiro and S. Aja-Fernández, “*EC-Based Low Complexity Alternatives to RSSE Simplification Techniques*”, Proc. Int’l IASTED Conf. on Signal Processing and Communications, SPC 2000, Marbella, Spain, pp. 53-58, Sept. 2000.
4. L. M. San José-Revuelta and A. Boderó-Alonso, “*Interactive Genetic Music Composition with Fuzzy Filtering*”, Proc. Int’l 5th. Multi-Conf. on Systemics, Cybernetics and Informatics, SCI 2001, Orlando, Florida, EE.UU., July 2001
5. L. M. San José-Revuelta and J. Cid-Sueiro, “*Extension of Blind Bayesian Equalization Algorithms for Multiuser Detection*”, Int’l IASTED Conf. on Wireless and Optical Communications, WOC 2002, Banff, Canadá, 17-19 July 2002.
6. L. M. San José-Revuelta, “*Reduced Complexity GA/RBF Multiuser Detectors for DS/CDMA Communications*”, Proc. Int’l IASTED Conf. on Communication Systems and Networks, CSN 2003, Benalmádena, Málaga, Spain, pp. 211-216, Sept. 2003.
7. L. M. San José-Revuelta and J. Cid-Sueiro, “*Bayesian and RBF Structures for Wireless Communications Detection*”, Proc. Int’l. IEEE Workshop on Neural Networks and Signal Processing, NNSP 2003, Toulouse, Francia, pp. 749-758, Sept. 2003.
8. L. M. San José-Revuelta, “*A Modified Genetic Algorithm with Diversity Control for Synchronous Spread Spectrum Systems*”, Proc. Int’l IASTED Conf. on Communication Systems and Applications, CSA 2004, Banff, Canadá, July 2004.
9. L. M. San José-Revuelta, “*Entropy-Guided Genetic Algorithm for Channel Allocation in Cellular Radio Networks*”, Int’l Workshop on Nature Inspired Approaches to Networks and Telecommunications, in Parallel Problem Solving from Nature, PPSN VIII, Birmingham, Reino Unido, Sept. 2004.
10. L. M. San José-Revuelta and N. Cañibano, “*Analysis of a Bayesian Multiuser Detector for Non-Data-Aided CDMA Communications*”, Proc. Int’l. IEEE XIII Workshop on Machine Learning for Signal Processing, MLSP 2004, São Luís, Maranhão, Brasil, pp. 705-714, Sept. 2004.
11. L. M. San José-Revuelta, “*A Recursive SAM Fuzzy System for the Detection Performance Monitoring in Digital Communications Problems*”, Proc. 4th. Conf. of the European Society for Fuzzy Logic and Technology, EUSFLAT 2005, Barcelona, Spain, pp. 1170-1175, Sept. 2005.
12. L. M. San José-Revuelta, “*Hypotheses Control-Based Strategies for the Simplification of Bayesian Multiuser Detectors*”, Proc. Int’l. IEEE Workshop on Machine Learning for Signal Processing, MLSP 2005, Mystic, Connecticut, USA, pp. 129-134, Sept. 2005.
13. L.M. San José-Revuelta, M. Martín-Fernández, C. Alberola-López, “*A New Method for Fiber Tractography in Diffusion Tensor Magnetic Resonance Images*”, Proc. IEEE Int’l.

Conference on Signal and Image Processing, ICSIP 2006, Karnataka, India, Vol. I, pp. 380-385, Dec. 2006.

14. L.M. San José-Revuelta, M. Martín-Fernández, C. Alberola-López, “*A New Proposal for 3D Fiber Tracking in Synthetic Diffusion Tensor Magnetic Resonance Images*”, Proc. IEEE Int’l. Symp. on Signal Processing and its Applications, ISSPA 2007, Sharjah, United Arab Emirates, Feb. 2007.

Other professional activities:

- Reviewer in IEEE Transactions on Signal Processing (IEEE) since 11/2003.
- Reviewer in Signal Processing (Elsevier) since 2/2004.
- Reviewer in Information Sciences (Elsevier) Since 11/2004.
- Reviewer in Journal on Applied Soft Computing since 6/2005.
- Reviewer in Signal, Image and Video Processing (Springer) since 9/2006.
- Reviewer in IEEE Transactions on Communications (IEEE) since 10/2006.
- Reviewer in Journal of Artificial Intelligence in Medicine, since 3/2007.