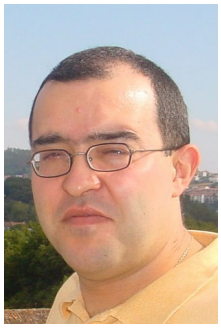
Xosé Antón Vila Sobrino



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Research Interests

- Digital signal processing
- Heart rate variability

Education

- **Ph. D. in Physics** Univ. Santiago de Compostela, Spain, 1997
- **Degree in Physics** Univ. Santiago de Compostela, Spain, 1991

Experience

- **Associate Professor**, Univ. Vigo, Spain, 2006-
- **Associate Professor,** Univ. Santiago de Compostela, Spain, 1999-2006
- **Research Fellow**, St' Georges Hospital Medical School, London, UK, 1997-1998. (6 months)
- **Assistant Professor,** Univ. Santiago de Compostela, Spain, 1992-1999

Selected Activities

- **Vice-director** of CETA (Centre of Technologies for Learning). Univ. Santiago de Compostela. 2004-2005.
- **Secretary** of the ESEI (School of Computer Engineering). Univ. Vigo. 2008-2009
- **Director** of CITI (Center for Research, Transfer and Innovation) of the Vigo University. 2011-2018
- **Coordinator** of the Master in Computer Engineering. Univ. Vigo. 2017-2019

Reviewing Activities

- **Spanish Research Programme**
- **Journals** (IEEE Transactions on Biomedical Engineering, IEEE Transactions on Information Technology in Biomedicine, Inteligencia Artificial,Sensors)
- **Conferences** (ICEIS, CISTI, CASEIB, CAEPIA, IEEE-EMBS, etc.)

Books and Journals

(Last 10 years)

- Cuesta-Morales, P., Perez-Schofield, B. G., Rodríguez-Linares, L., Lado, M. J., Méndez, A. J., & Vila, X. A. (2022). VARSE: Android app for real-time acquisition and analysis of heart rate signals. International Journal of Medical Informatics, 160, 104692.

- Vila, X. A., Lado, M. J., & Cuesta-Morales, P. (2019). Evidence based recommendations for designing heart rate variability studies. Journal of Medical Systems, 43(10), 311.
- Rodríguez Damián, M., Vila, X. A., & Rodríguez Liñares, L. (2019). Accuracy of Bluetooth based Indoor Positioning using different Pattern Recognition Techniques. Journal of Computer Science & Technology, 19.
- V. Mondelo, M. J. Lado, A. J. Mendez, X. A. Vila and L. Rodriguez-Linares, "An evaluation tool for wave delineation in ECG processing: Wxw," 2018 13th Iberian Conference on Information Systems and Technologies (CISTI), Caceres, Spain, 2018, pp. 1-5, doi: 10.23919/CISTI.2018.8399420.
- Gerardo Flórez, Xosé A. Vila, María J. Lado, Pedro Cuesta, Ventura Ferrer, Luis S. García, María R. Crespo, Manuel Pérez; Diagnosing Psychopathy through Emotional Regulation Tasks: Heart Rate Variability versus Implicit Association Test. Psychopathology 7 November 2017; 50 (5): 334–341
- Martínez, C. A. G., Quintana, A. O., Vila, X. A., Touriño, M. J. L., Rodríguez-Liñares, L., Presedo, J. M. R., & Penín, A. J. M. (2017). Heart rate variability analysis with the R package RHRV.
- Mondelo, V., Lado, M. J., Méndez, A. J., Vila, X. A., & Rodríguez-Liñares, L. (2017). Combining 12-lead ECG information for a beat detection algorithm. Journal on Advances in Theoretical and Applied Informatics, 3(1), 5-9.
- V. Mondelo, M. J. Lado, A. J. Méndez, X. A. Vila and L. Rodríguez-Liñares, "A channel-dependent algorithm for heart beats detection in ECG recordings," 2017 12th Iberian Conference on Information Systems and Technologies (CISTI), Lisbon, Portugal, 2017, pp. 1-5, doi: 10.23919/CISTI.2017.7975975.
- Mondelo, V., Lado, M. J., Méndez, A. J., Vila, X. A., & Rodríguez-Liñares, L. (2017). Detection of heart beat positions in ECG recordings: A lead-dependent algorithm. Journal of Information Systems Engineering & Management, 2(3), 13.
- Lado, M. J., Cuesta, P., Caballero, A. G., & Vila, X. A. (2017). Influence of visual elicitation over emotion regulation: An investigation employing the heart rate variability. Journal of Integrative Neuroscience, 16(2).
- Blanco, N. V., Rodríguez-Liñares, L., Cuesta, P., Lado, M. J., Méndez, A. J., & Vila, X. A. (2016). gVARVI: A graphical software tool for the acquisition of the heart rate in response to external stimuli. computer methods and programs in biomedicine, 132, 197-205.
- Rodríguez-Liñares, L., Lado, M. J., Vila, X. A., Méndez, A. J., & Cuesta, P. (2014). gHRV: Heart rate variability analysis made easy. Computer methods and programs in biomedicine, 116(1), 26-38.
- Cuesta, P., Lado, M. J., Vila, X. A., & Alonso, R. (2014). Detection of premature ventricular contractions using the RR-interval signal: a simple algorithm for mobile devices. Technology and Health Care, 22(4), 651-656.
- Zamarrón, C., Lado, M. J., Teijeiro, T., Morete, E., Vila, X. A., & Lamas, P. F. (2014). Heart rate variability in patients with severe chronic

obstructive pulmonary disease in a home care program. Technology and Health Care, 22(1), 91-98.

- *40 publications in books and journals*
- *More than 75 contributions to congresses and workshops*

Research Projects

(Last 10 years)

- **Plataforma de apoio a pacientes afectados por COVID persistente baseada en intelixencia artificial (COPERIA). 2021-2023**
  - IN852D 2021/20
  - Finaced by: Xunta de Galicia
  - Participants: Univ. Vigo
- **Servidor de Cálculo Científico de Altas Prestaciones. 2015-20215**
  - UNVI13-1E-2283
  - Finaced by: Ministerio de Economía y Competitividad
  - Participants: Univ. Vigo

Summary Projects

- *13 Research Projects on national level*