

Personal information form for Fellow members of EAMBES

Personal Info



Name: Laura M. Roa

Gender: Female

Date and place of birth:

Present affiliations and functions: Head, Biomedical Engineering Group, Full Professor of Control Systems Engineering and Automation, University of Seville

Presents e-mail address: laura@esi.us.es

Webpage address when applicable: <http://gib.us.es>

Short CV

Please indicate

1. Date and university for MSc and PhD degree(s)
 - MSc in Physics, University of Seville
 - PhD in Physics, University of Seville
2. Different professional affiliations with applicable periods
 - Teaching Assistant, University of Seville
 - Assistant Professor, University of Seville
 - Head, Biomedical Engineering Group, University of Seville
 - Associate Professor, University of Seville
 - Head, Biomedical Engineering Group, CIBER-BBN – University of Seville
 - Full Professor, University of Seville
3. Major activities at the national and international level
 - Editorial Board Member, IEEE Transactions on Information Technology in Biomedicine
 - Editorial Board Member, International Journal of System Dynamics Applications
 - Associate Editor, IEEE Transactions on Information Technology in Biomedicine
 - Reviewer, IEEE Transactions on Biomedical Engineering
 - Reviewer, Journal of Neural Engineering
 - Member, Administrative Committee of the IEEE-EMBS (2002-2006)
 - Member, Interim Council EAMBES (1998-2002)
 - Member, IEEE-EMBS Fellow Committee (2008-2009)
 - Member, IEEE Fellow Committee (2010-2012)
 - Member, AIMBE Fellow Committee (2002-)
 - Member, IAMBE Fellow Committee (2003)
 - Member of the Jury, Bioinformatics call, Investments for the future program, Agence - Nationale de la Recherche (ANR), France (2011)
 - External Advisor, Staff Promotion University College Dublin (2005)
 - External Evaluator, Natural Sciences and Engineering Research Council (NSERC), Canada (2000-)
 - Vicepresident Spanish Society of Biomedical Engineering (1987-1989)

- Secretary General, Spanish Society of Biomedical Engineering (1989-2004)
 - President, Spanish Society of Biomedical Engineering (2005-)
 - Member, Advisory Committee, Spanish Ministry of Health (2001)
 - Synthesizer, Technical Committee 9, General Directorate Biomedical Research Spanish Ministry of Health (2005)
 - Panelist, Technical Committee 9, General Directorate Biomedical Research Spanish Ministry of Health (2007-)
 - Member, Ad-hoc Committee for the Design of a Nation-wide Higher Education Program on Biomedical Engineering, Spain (2002)
 - Member, Reviewer Panel, Spanish National Board of Research Evaluation and Prospective (ANEP)
4. Major scientific interests
- Multiscale Computational Modeling for the detection of biological and pathological events
 - Smart devices for ambient assisted living
 - Integration Architectures for health and social services
 - Development of electromagnetism methods and techniques applied to the solution of bionanotechnologies problems
5. When applicable the number of journal publications (full articles), total citations, Hirsch Factor and number of patents
- 340 papers (journal papers, peer reviewed conference papers, book chapters, and books)
208 cites
2 patents
6. When applicable, maximal 4 references to papers you find most important and relevant
- L.M. Roa, T. Gómez-Cía, A burn patient resuscitation therapy designed by computer simulation (BET). Part 1: Simulation studies, BURNS, 19(4): 324-331s, 1993
 - J.A. Trigo, L.M. Roa, A. Gruart, J.M. Delgado-García, A kinetic study of blinking responses in cats, Journal of Physiology, 549(Pt 1): 195-205, 2003
 - L.M. Roa, T. Gómez-Cía T, B. Acha, C. Serrano, Digital imaging in remote diagnosis of burns, BURNS, 25(7): 617-623, 2005
 - M.Á. Estudillo-Valderrama, L.M. Roa, J. Reina-Tosina, D. Naranjo-Hernández, Design and implementation of a distributed fall detection system-personal server, IEEE Transactions on Information Technology in Biomedicine, 13(6): 874-881 (2009)

Recognitions:

Please indicate honorary recognitions, prizes, fellowships etc.

- Fellow, Institute of Electric and Electronics Engineers (IEEE), 2002
- Fellow, American Institute for Medical and Biological Engineering (AIMBE), 2002
- Fellow, International Academy for Medical and Biological Engineering (IAMBE), 2003