Title: Technological Innovations in Biomedical Training and Practice

Aims and scope
As we become more integrated into a global world, technological advances and teaching innovation that are grounded in Health Sciences have become crucial. Rapid advancements in technology and information technology provide promising resources that require many academic disciplines to work together. Developing new devices and digital tools together with empirical studies that support their efficiency, constitute a promising approach to improve Biomedical Training and Practice.

The aim of this topical collection is to encourage and enable the exchange of information related with the technological innovations in biomedical training and practice.

The scope of this topical collection includes, although is not restricted to the following topics:

- Pedagogical Innovations in Health Sciences Education
  - Learning and Teaching Methodologies
  - Evaluation and Assessment of Student Learning
  - New Learning/Teaching Models
  - Language Learning Innovations
  - Collaborative and Problem-based Learning
- Experiences in Health Sciences
  - Academic Research Projects
  - Research Methodologies
  - Links between Education and Research
  - New projects and Innovations
- e-learning Projects and Experiences in Health Sciences
  - Mobile Learning
  - Training, Evaluation and Assessment
  - Virtual Learning Environments (VLEs)
  - Learning Management Systems (LMS)
  - Online/Virtual Laboratories
  - Virtual Universities
- Technologies and software in Health Sciences
  - Technology-Enhanced Learning
  - Clinical and Surgical simulators and virtual reality environments
  - 3D vision environments of radiological medical images
  - Software for biomedical imaging processing
  - 3D printing of anatomical structures for teaching and clinical purposes
  - Touch and Multisensory Technologies
  - Advanced Classroom Technology
  - Stereoscopic vision
  - Augmented Reality
  - 360 Vision Clinical Imaging Systems
  - Web Classroom Applications
  - Mobile/Wireless Technologies
  - Emerging Technologies in Education. Touch and Multisensory Technologies
  - Computer Software on Education
  - Animation and 3D Systems
  - Learning Tools
  - Educational Software Experiences
**Paper Formatting, Submission and Reviewing**

Papers must be written in English and describe original research which is not published nor currently under review by other journals or conferences. Authors should follow the guide to authors available at Journal of Medical Systems website to format their article at www.springer.com/10916. Papers to this topical collection should be submitted via the online Editorial Manager System.

All submissions will be reviewed according to the journal peer-review policy. Authors submitting revised and substantially extended versions of conference papers should identify the original publication and include a description clarifying the new contributions in the submission and the differences to the original publication.

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**Brief Biography**

**Juan A. Juanes, MD, PhD** is a Professor of Human Anatomy at the University of Salamanca (Spain) and Software Technician by the Pontificia University of Salamanca. He coordinates the official research group Advanced Medical Visualization Systems, at the University of Salamanca; and collaborated with the research group: Grup d'Anatomia Virtual i de Simulació, del Centre de Recursos per a l'Aprenentatge i la Investigació, at the University of Barcelona (Spain).

His research career has been directed to the study of axonal transport techniques with neural tracers, and the analysis of brain structures with different neuroimaging techniques. He has contributed to the development of computerized applications for medical imaging visualization, particularly, for neuroanatomy and neuroradiology. His scientific activity has resulted in numerous publications in international journals. He has been invited to take part in the Scientific Committee on Information and Communication Technologies (ICTs) in the Spanish Review of Medical Radiology.

**Pablo Ruisoto, PhD** is Professor at the University of Salamanca (Spain). His research career has focused on neuroimaging, in particular, on the impact of computerized reconstruction of neuroanatomical structures for both clinical and research purposes. He has consistently collaborated with the Advanced Medical Imaging Systems Research Group (VisualMed System). His scientific activity has resulted in numerous publications in international journals.

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