

# CENTERIS / ProjMAN / HCist

CENTERIS – Conference on ENTERprise Information Systems

ProjMAN – International Conference on Project MANagement

HCist – International Conference on Health and Social Care Information Systems and Technologies



## CENTERIS / ProjMAN / HCist 2018

Book of industry papers, poster papers and abstracts

**2018**

November 21-23, Lisbon  
Portugal

SciKA

Book of industry papers, poster papers and abstracts of the  
**CENTERIS 2018 – Conference on ENTERprise Information Systems /**  
**ProjMAN 2018 – International Conference on Project MANagement /**  
**HCist 2018 – International Conference on Health and Social Care**  
**Information Systems and Technologies**

November 21–23, 2018, Lisbon, Portugal

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Ricardo Martinho, Polytechnic Institute of Leiria, Portugal

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University of Minho  
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## Preface

The co-located conferences CENTERIS'2018, ProjMAN'2018 and HCist'2018 provided an excellent conference environment for sharing best practices among researchers, academics and professionals from both generic Enterprise, Project Management and specific Healthcare Information Systems research areas.

CENTERIS – Conference on ENTERprise Information Systems – is an international conference addressing the largely multidisciplinary field embraced by Enterprise Information Systems (EIS), from the social, organizational and technological perspectives.

ProjMAN – International Conference on Project MANagement – addresses the application of knowledge, skills, methods, techniques and tools to the activities of a project, aiming to satisfy its requirements and achieve success at several levels. A plethora of valuable technical and business opportunities and solutions are created and developed all the time only thanks to good practices of project management.

HCist – International Conference on Health and Social Care Information Systems and Technologies – intends to gather Healthcare Information Systems and Technologies professionals and academics to share and discuss current challenges, developments, case studies, integrated and practical solutions, as well as new products, findings and approaches to leverage the use of Information Systems and Technologies in healthcare.

The CENTERIS'2018, ProjMAN'2018 and HCist'2018 editions were held in Lisbon, Portugal. This was the place where, during November 21-23, 2018, under the leitmotiv of Enterprise Information Systems, Project Management, and Health/Social care Information Systems, academics, scientists, information technologies/information systems professionals, managers and solution providers from all over the world had the opportunity to share experiences, bring new ideas, debate issues, introduce the latest developments, from the social, organizational and technological perspectives. More than 200 manuscripts were submitted to CENTERIS, ProjMAN and HCist, coming from all over the world, and 116 of them were selected for presentation and inclusion in the conference proceedings. Nearly 25 industry and poster papers were also accepted for presentation. The selected papers represent more than 400 authors from academic, research institutions and industry, from 38 countries. These proceedings are intended for use by academics and practitioners that want to be aware of what is currently in the Information Systems agenda, from research to everyday business practice.

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Finally, on behalf of the organization, we would like to express our gratitude to all the authors, for their visions and excellent contributions to the conferences, as well as to the scientific committee members, who acceded to share their insights, prompt collaboration and constructive comments in the reviewing process. We are also grateful to all who submitted valuable and high quality contributions but unfortunately and due to several constraints, could not see their work accepted for presentation and publication.

Enjoy your reading!

November 2018

The editors,

João Eduardo Varajão  
Maria Manuela Cruz-Cunha  
Ricardo Martinho  
Rui Rijo

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## **Acknowledgements**

Organizing a conference is a very hard but compensating and enriching experience, as it involves a complex set of different activities, from the design of the conference, the establishment of the scientific commission, contacts with authors, organization of the review process, discussion and exchange of ideas and experiences, process management, organization and integration of contents, and many other, with the permanent objective of preparing an event that meets the participants' expectations. And this task cannot be accomplished without a great help and support from many sources. As conference co-chairs, we would like to acknowledge the help, support and believe of all who made possible the creation of CENTERIS/ProjMAN/HCIST.

We are grateful to all the authors who have chosen CENTERIS/ProjMAN/HCist 2018 to present their work, thank you, you made both conferences happen! Our gratitude goes also to all the authors that submitted their proposals but were not able to see their work accepted, due to several constraints.

The Scientific Committees of CENTERIS, ProjMAN and HCist integrates now more than 300 individualities, most of them who shared their knowledge and gave their constructive comments indispensable to the decision-making associated with the selection process, to whom we express our gratitude.

We are also grateful to the conference sponsors that played a very relevant role and to the scientific journals who offered the chance to publish enhanced versions of selected papers.

BSRJ - Business Systems Research Journal  
IJBAN - International Journal of Business Analytics  
IJESMA - International Journal of E-Services and Mobile Applications  
IJHCITP - International Journal of Human Capital and Information Technology Professionals  
IJISPM - International Journal of Information Systems and Project Management  
IJISSC - International Journal of Information Systems and Social Change  
IJISSE - International Journal of Information Systems in the Service Sector  
IJITPM - International Journal of Information Technology Project Management  
IJWP - International Journal of Web Portals

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Finally, a word of appreciation is due to the members of the organising committee for their prompt and friendly support.

The Conference Chairs,

João Eduardo Varajão  
Maria Manuela Cruz-Cunha  
Ricardo Martinho  
Rui Rijo

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# Using Pervasive and Mobile Computation in the Provision of Gerontological Care in Rural Areas

Carlos R. Cunha <sup>a,b</sup>, Vítor Mendonça <sup>b</sup>, Elisabete Paulo Morais <sup>a,b</sup>, Joana  
Fernandes <sup>b</sup>

<sup>a</sup> *Applied Management Research Unit (UNIAG), Portugal*

<sup>b</sup> *Polytechnic Institute of Bragança, Mirandela, Portugal*

---

## Abstract

The provision of gerontological care in rural areas represents an increased management challenge. Framed by the Portuguese Northeast reality, this paper reflects on the role and potential of pervasive and mobile computing in the management of gerontological care, specially in rural areas, explaining the potential of fusion between gerontology and technology and presents a conceptual model to frame it. Finally, it presents a software prototype developed for Android smartphones, capable of assist a gerontological care provider in some of their operational practices.

*Keywords:* gerontology; conceptual model; prototype; health and care providers; rural areas.

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