

Sharing ongoing research from *TRS group on ICT for teaching and learning *TRS – Technology, Networks and Society

Luis Borges Gouveia, Imbg@ufp.edu.pt
Full Professor, Universidade Fernando Pessoa

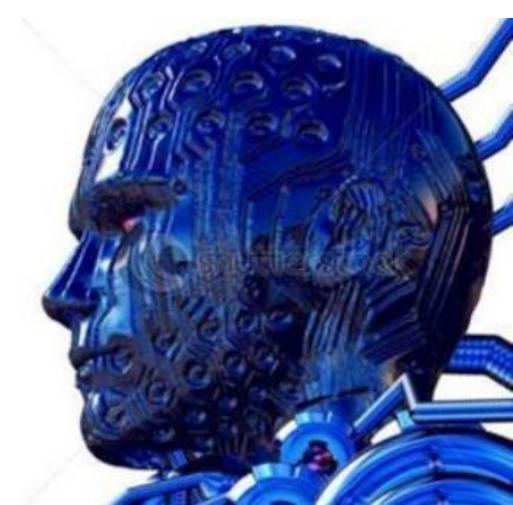
International Scientific and Methodological Seminar on Innovative
Technologies

Nur-Sultan, Kazakhstan, via Zoom

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Sharing ongoing research from *TRS group on ICT for teaching and learning

- *trs (Tecnologia, Redes e Sociedade) stands for T – technology; R – networks; and S – society, i the first letter in Portuguese (*TRS – Technology, Networks and Society)
- a R&D group that mainly aggregates the efforts of post-graduate supervision
(from a higher education people based in different locations)
- Some online resources (stuff in English and Portuguese)
 - Digital library site: <http://bdigital.ufp.pt/handle/10284/3787>
 - Wordpress site: <https://tecnologiaredesesociedade.wordpress.com/>
- A more complete account of the scientific production is available also online:
 - As a chronological list: http://homepage.ufp.pt/lmbg/lq_com.htm
 - Organised by contribution type: http://homepage.ufp.pt/lmbg/lq_com2.htm



Where we are based: UFP, Porto, Portugal



*TRS group aim and position

the group brings specialists from different areas (**multidisciplinary**) to ***work on the use and exploration of information and communication technologies to augment the quality of human activity***

the group is aligned with the **information science** area and take **computer science** as its roots

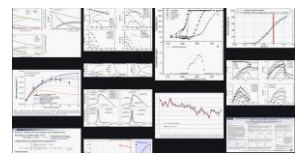
research lines

information management

information spaces

ubiquitous and intelligent information





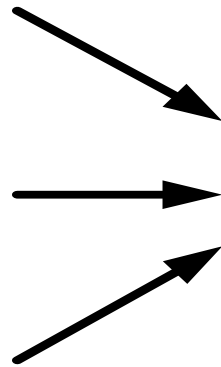
models



people



mediation



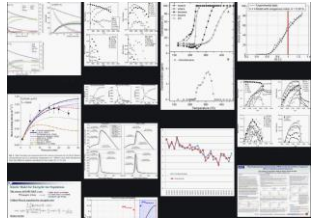
INFORMATION



PEOPLE



- Three research lines with a focus on **people**, with the object of **information**:
 - *Information Management*: studies the issues associated with models, taking information as an object and how the use and exploitation of digital can improve human activity (people)
 - *Information Spaces*: studies the issues associated with people, taking information as an object and how the use and exploitation of digital can improve human activity (people)
 - *Ubiquitous and Intelligent Information*: studies the issues of mediation, taking information as an object and how the use and exploitation of digital can improve human activity (people)



MODELS



INFORMATION

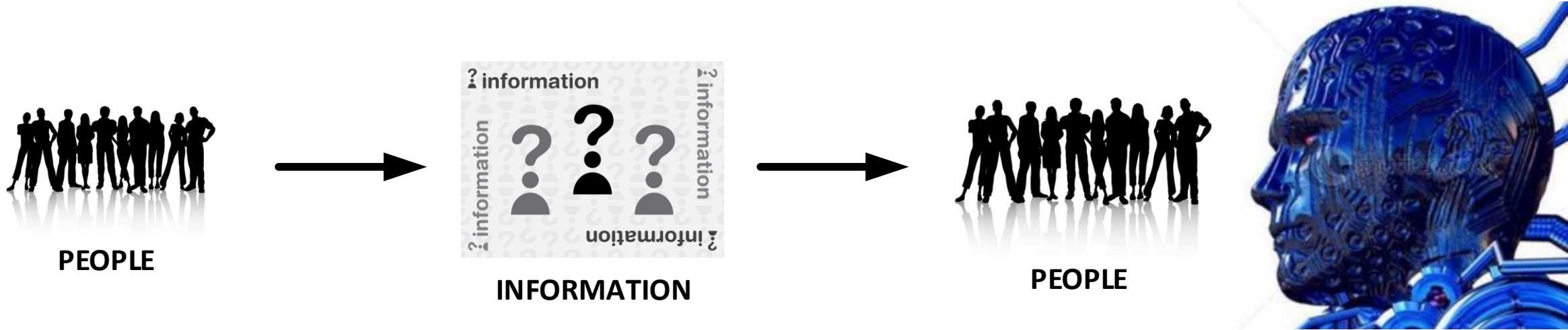


PEOPLE



- **Information Management:** This research line is concerned with the issues of information management in complex applications, since its acquisition, representation, processing and storage. The works are concerned with semantic representations that allow their use in intelligent, heterogeneous and distributed environments. It also encompasses concerns about the organization, classification, behaviors and exploitation of digital platforms and how to deal with data and information in the context of individuals and organizations.

models -> information -> people



- **Information Spaces:** This research line is concerned with the creation, analysis and study of issues raised by the use of information as a vehicle for interaction in teaching and learning environments, digital governance and smart cities. In the context of teaching and learning, it includes issues such as the use and exploitation of digital media and their impact, as well as new proposals that enhance the use of information and communication technologies in the context of the individual or organizations. In the context of digital governance, it includes issues such as the governance and administration of public bodies, concerns associated with the management of cities and proposals for the promotion and development of public activity, including governance and governance mediated by data and information media. and by digital platforms

people -> information -> people



MEDIATION



INFORMATION



PEOPLE



- **Ubiquitous and intelligent information:** This research line is concerned with the issues of using ubiquitous information in collection, processing and decision support systems. The growing use of sensors and intelligent technologies raises questions of information architecture, security and intelligent information processing

mediation -> information -> people

Concluded Post doctoral projects

http://homepage.ufp.pt/lmbg/mono_on.htm#posdoc

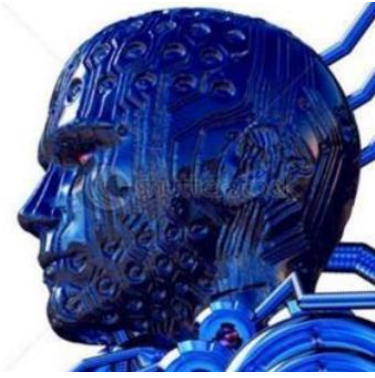


- Ítalu Colares
- *Postulados para uma Educação a Distância, uma tese para um curso de Teologia*
- E-learning related with an operational proposal to create a Theology distance learning course
- 2019, 6 months project

- Paula Peres
- *Investigação, planeamento e gestão das tecnologias digitais ao serviço da educação*
- A model proposal the ICT support activity within a higher education institution
- 2011, 12 months project

Concluded Phd (doctorate) projects

http://homepage.ufp.pt/lmbg/mono_on.htm#tese



- 2021 • Ernane Martins, Modelo Pedagógico para Atividades de Mobile Learning: um estudo fundamentado na sala de aula invertida
- 2021 • Oberdan Costa, Dropout no Ensino a Distância e a Sustentabilidade das IES: um Modelo de Referência para um sistema integrado de alertas para evasão
- Andréa Araújo, Tecnologias de Informação e Comunicação aplicadas ao Ensino Superior: percepção numa IES em Belém do Pará
- 2020 • Reinaldo Toso, O Uso de Maquetes no Ensino da Logística
- 2020 • Sérgio Lopes, A proposta b-learning da sala de aula invertida (flipped classroom): potencialidades e desafios no contexto do Ensino Superior
- 2018 • Natércia Menezes, O recurso a TIC para suporte da actividade em sala de aula
- 2018 • Gabriel Salimo, Os Desafios da Era Digital no contexto do Ensino Superior em Moçambique
- 2016 • Ana Robalo, Proposta de estratégia metodológica para a promoção da Cultura Digital de Professores do 1º e 2º Ciclo do Ensino Secundário
- 2012 • Luis Cunha, Web 2.0 and Higher Education : A Psychological perspective
- 2011 • Pedro Silva, A Influência do Digital na Criação de Espaços de Aprendizagem de Alta Qualidade
- 2011 • Steven Abrantes, O m-learning no contexto do Ensino Superior
- 2008 • Paulo Rurato, As Características dos Aprendentes na Educação a Distância. Impacto no Processo Educativo com vista ao Desenvolvimento de Estratégias de Sucesso

Concluded MSc (master) projects

http://homepage.ufp.pt/lmbg/mono_on.htm#dissert



- **Mateus Vieira**, [*A Revolução Tecnológica: mudanças no mercado de trabalho educacional do nível superior no Brasil*](#), 2021
- **Helder Caixinha**, [*Gestão de conteúdos pedagógicos em ambientes de e-Learning*](#), 2009
- **Christelle Soigné**, [*O recurso a meios digitais no contexto do ensino superior. Um estudo de Uso da Plataforma*](#), 2009
- **Susana Azevedo**, [*O suporte a iniciativas de e-Learning no ensino superior. A Universidade de Aveiro, um estudo de caso*](#), 2007
- **David Abrantes**, [*O uso das Comunidades Virtuais no Ensino Secundário: o caso do "Palco Virtual" ESEN-NET*](#), 2007
- **José Rodrigues**, [*mISynapse: Uso de m-learning no Ensino Superior*](#), 2007
- **Márcia Moreira**, [*O uso de objectos de aprendizagem no ensino secundário: uma aplicação prática*](#), 2007
- **Maria Mesquita**, [*b-learning no ensino secundário recorrente. Uma proposta baseada na construção do conhecimento*](#), 2007
- **Steven Abrantes**, [*O uso dos jogos como estratégia de aprendizagem para alunos do 1º ciclo do ensino básico. O caso do CD-ROM "Escola Digital"*](#), 2007
- **Gilberto Vasco**, [*A Gestão da Qualidade em Sistemas de e-Learning*](#), 2005
- **Jorge Graça**, [*Avaliação da adopção da formação a distância. o caso de estudo da GNR*](#), 2005
- **Margarida Marques**, [*O contributo da biblioteca escolar para o ensino/aprendizagem: impacto e perspectivas futuras face à sociedade da informação*](#), 2003

Ongoing projects



- **Post doctoral**

- Laerte Fonseca, *Types and attention levels for student trigonometric tasks*
- Ernane Martins, *The Use of a specific Flipped classroom for mobile learning, in the Covid19 context*

- **Submitted PhD thesis (waiting for defence)**

- Marilú Lourenço, *Use of ICT and challenges to convert higher education teachers to digital and distance learning*
- Francisco Kimbanda, *Challenges and a proposal to evaluate higher education in Angola*
- Juarês Manico, *Environmental awareness and education in Angola*

Ongoing projects



- **Current ongoing doctoral thesis**
- **Digital platforms** (information management to support data driven approaches to higher education institutions)
- **Digital skills** (core skills, models and evaluation/detection)
- **Network based strategies** (use and exploration of ICT to support both teaching and learning strategies)
- **Area related applications** (mathematics, environment, journalism)
- **Contents curation** (models and strategies)



Biographical note

Luís Borges Gouveia

lmbg@ufp.edu.pt

Luis Borges Gouveia, was born in 1966 in Porto, Portugal. Full Professor at the Faculty of Science and Technology of the Fernando Pessoa University (UFP). Coordinator of the Ph.D. in Information Sciences, Specialty Systems, Technologies and Information Management (UFP).

Habilitation in Industrial Engineering and Management (UA, PT); Ph.D. in Computer Science (ULANCS, UK); Master in Electronic and Computer Engineering (FEUP, PT) and Degree in Informatics / Applied Mathematics (UPT, PT).

His interests are associated with the use and exploitation of digital and its applications for people and organizations, taking into account its impact on people's quality of life. Some examples are the involvement in several large projects concerning ICT and information systems to support human activity, namely in digital cities/smart cities, e-government, e-learning, and cybersecurity issues.

Has a personal page on the World Wide Web: <http://homepage.ufp.pt/lmbg>

He is the author of several technical books in his areas of expertise

http://homepage.ufp.pt/lmbg/lg_livros.htm