



The 23<sup>rd</sup> edition of the **International Conference on e-Society** was held in Madeira Island, Portugal, during **1 – 3 March, 2025**.

This conference was organized by the International Association for Development of the Information Society (IADIS).

This event focused on the main areas within Information Society. It covered both the technical as well as the non-technical aspects of the Information Society. The conference broad areas of interest were: e-Government / e-Governance, e-Business / e-Commerce, Technology and Society, e-Learning, New Media and E-Society, e-Health, Information Systems, and Information Management.

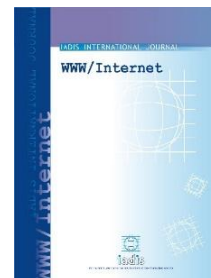
The e-Society 2025 was published jointly with 18<sup>th</sup> IADIS International Conference Information Systems (IS 2025). These events received 243 submissions from more than 33 countries. Each submission has been anonymously reviewed by an average of 4 independent reviewers, to ensure the final high standard of the accepted submissions. Out of the papers submitted, 47 got blind referee ratings that published them as full papers, which means that the acceptance rate was 19%. Some other submissions were published as short and reflection papers, posters and doctoral paper.

Extended versions of the best papers were selected to be published in:

- ❖ IADIS Journal on Computer Science and Information Systems (ISSN: 1646-3692)



- ❖ the IADIS International Journal on WWW/Internet (IJWI) (ISSN: 1645-7641)



In addition to the papers' presentations, the conference also included a keynote presentation by Professor Laurence Brooks, Professor of Information Systems, Information School, University of Sheffield, United Kingdom. Furthermore, it also included a Tutorial entitled "Expanding Your Research with Text Mining and Topic Modelling" by Azar Shahgholian and Eyyüb Can Odacıoğlu (The University of Manchester, United Kingdom).



**Keynote Presentation:**

**ETHICAL CHALLENGES OF AI**

By Professor Laurence Brooks, Information School, University of Sheffield, UK

## Tutorial:

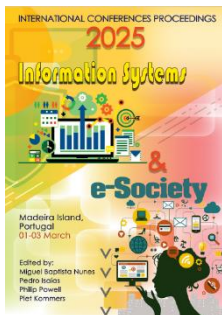
### EXPANDING YOUR RESEARCH WITH TEXT MINING AND TOPIC MODELLING

By Azar Shahgholian, Alliance Manchester Business School, and Eyyüb Can Odacıoğlu, Civil Engineering and Management, The University of Manchester, UK

**Abstract:** This tutorial will cover the major techniques for mining and analysing textual data to discover interesting patterns, extract useful knowledge, and support decision-making. We introduce a generic approach that can be applied to any text dataset with a minimum of effort. Attendees will learn the basic concepts, principles, and major algorithms in text mining and their potential applications. Detailed analysis of textual data requires understanding of natural language processing, data pre-processing and manipulation and finally applying an appropriate text mining technique. The technique we focus on in this tutorial is Topic Modelling such as Latent Dirichlet Allocation (LDA), which is trending in recent research publications. We will use examples in Python since it provides rich libraries for different stages of analysis and optimisation. Having completed the tutorial, you will appreciate the capabilities for enriching the type of research you can conduct and the range of research questions you can answer. Indeed, information extraction and analysis are increasingly becoming mainstream research tools in contemporary science.

The objectives of this tutorial are as follows:

- Understand the concept of text mining and its underlying mechanisms.
- Consider a range of text mining approaches, such as information extraction and name entity identification, suited to extracting different kinds of information from social media data sources.
- Apply basic natural language processing methods as the first step in any text mining project.
- Understand Topic Modelling, the LDA algorithm, and its role in expanding the range of research questions.
- Learn how to interpret the Topic Modelling results.



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**Edited by:** Miguel Baptista Nunes, Pedro Isaías, Philip Powell and Piet Kommers

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