



Journal of Ambient Intelligence and Humanized Computing (AIHC)

Special Issue on Infodemics

<http://www.springer.com/engineering/computational+intelligence+and+complexity/journal/12652>

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1. TITLE/ACRONYM

TITLE: Special Issue on Infodemics

ACRONYM: InfodemicsAIHC

2. Relevance to AIHC

Due to the current pandemic situation, the proliferation of fake news, misinformation, disinformation, and the overall activity on Social Networks has originated an extraordinary interest in a wide number of research communities from computer science, artificial intelligence, mathematics, physics, biology, sociology, psychology, to mention only some few. This special issue will provide an ideal framework to look for high-quality contributions in a hot and extremely active area.

3. CALL FOR PAPERS

With various online social network services (like Facebook, Twitter, and Instagram), a lot of data analytics on the social networks have been studied. From this vast amount of data we are able to extract and analyse the social networks of the new-era that can consist of millions of nodes and connections. Due to scale, complexity and dynamics, these networks are extremely difficult to analyse in terms of traditional social network analysis methods being at our disposal. On the other hand, the data about human communication, common activities and collaboration simultaneously provide new opportunities for new applications.

Infodemic (a new term created as a combination of “information” and “epidemic”) refers to a large increase in the volume of information related to a specific issue within a very short

time period. In this circumstance, we have a lot of misinformation and rumors. Moreover, social networks are amplifying the infodemic. An good example of this problem a good example of this type of problem has arisen in relation to the covid19 pandemic where countless rumours and false news, related to a multitude of subjects such as health, vaccines, politics (populism, extremism, radicalization), etc. have been created and spread through the networks.

As the area of Infodemics is a highly cross-disciplinary one, we aim to foster and develop sustainable collaborations between Computer Science and Informatics, Sociology, Cognitive Science and Psychology, Geographic and Environmental Science, Biology, and Health and Social Sciences. This will give the opportunity to push further the discussion upon the potential of Infodemics and their applications across these communities.

This special issue is devoted to Infodemics research from various academic communities. The main goal of this special issue is to provide for these people the opportunity to share their visions, research achievements and solutions as well as to establish worldwide cooperative research and development. At the same time, we want to provide a platform for discussing research topics underlying the concepts of Infodemics and its applications by inviting members of different communities that share this common interest of investigating social networks.

Topics of Interest

We invite the submission of high-quality papers related to one or more of the following topics:

- Social media and analytics on Infodemics (disinformation diffusion, bots characterization and detection, profiling fake news spreaders, multimodal fake news detection, etc)
- Information / Opinion / Knowledge spread and modelling
- User behavioural analysis on Infodemics
- Recommender systems – Collaborative filtering and personalization
- Social networks in health and Medical applications, e.g. diseases spread
- Cybercrime, Crime detection and investigation (Fake news & Rumors)
- Extremism, polarization, and radicalization (e.g. political, religious)
- Deep learning methods for disinformation
- Natural language processing and disinformation
- AI-supported fact checking and detection of disinformation campaigns
- Generation and identification of fabricated and manipulated content (deep fakes)
- Community detection in social networks (denialist, conspiracy, etc.)

- Recommendation systems and disinformation
- Meta heuristics algorithms for disinformation
- Data knowledge extraction (scrapping) for disinformation
- Real – world case studies from the area of social network analysis (e.g. related to SARS-CoV-2, COVID19, pandemic and their effects)
- Current applications on social mining as: social networks analytics and mining, community finding, radicalization in social networks, forensics social networks, etc.

Paper Submission

Submitted papers should not have been previously published nor be currently under consideration for publication elsewhere. Before the preparation of submissions, authors should carefully follow the author guideline from:

<http://www.springer.com/engineering/computational+intelligence+and+complexity/journal/12652>

Submitted papers will go through a strict peer review procedure. Prospective authors should submit an electronic copy of their complete manuscript through the Springer submission system at: <https://www.editorialmanager.com/aihc/default.aspx> clicking on "Submit a manuscript". Please select the special issue "**Infodemics**" for your submission, then you can upload all of your manuscript files following the instructions given on the screen.

4. GUEST EDITORS

David Camacho (Universidad Politécnica de Madrid, Spain)

Jason J. Jung (Chung-Ang University, Korea) – Leading Guest Editor

Juan Gomez-Romero (Universidad de Granada, Spain)

5. Time schedule

Important Dates

Opening date for the submission: 1st September 2021

Closing date for the submissions: 1st February 2022

Date for the first decision for all papers: 1st April 2022

Date for the first (eventual) revision for some papers: 1st May 2022

Date for the second (eventual) revision for some papers: 1st June 2022

Date for the sending all decisions for all papers: 1st July 2022

Eventual date of publication for the entire SI: September-October 2022