INVITED SESSION SUMMARY

Title of Session:

ADVANCES IN HEALTH INFORMATICS

Name, Title and Affiliation of Chair:

1. Daniela GIFU, Romanian Academy – Iasi Branch
2. Ireneusz CZARNOWSKI, Gdynia Maritime University, Poland
3. Ahmed RAGAB, O6U University, Egypt.
4. Liviu DINU, University of Bucharest, Romania

Details of Session (including aim and scope):

This track welcomes algorithmic, methodological or empirical original contributions, and theories relevant to the broader context of health informatics. Submissions can focus on one or more specific aspects of theory, design, development, evaluation, or deployment.

The topics of interest include, but are not limited, to:
- Novel methods for exploring and analyzing healthcare data (biomedical pattern recognition, biomarker discovery, disease profiling and personalized treatment, natural language processing and text mining, recommender systems, clinical phenotyping, visual analytics, explainability, and epidemiological modelling);
- Healthcare data quality and integrity;
- Big data related topics (distribution and parallelization of data analytics in healthcare, large scale textual and graph data analytics, optimization of data analytics techniques, and novel statistical approaches to big data analytics in healthcare);
- Evaluation and validation of methods in healthcare data analytics;
- Interactive health technologies (information technology for healthcare delivery and management, interactive visualizations of health data, user interactions with decision-support systems, human factors for electronic health records and other types of clinical applications, interaction design for wearable and ubiquitous health technologies, interaction design of novel multimodal health devices);
- Privacy and security in sharing healthcare data;
- Design, development, deployment, and evaluation of high-performing privacy-preserving and secure software or hardware systems.
- Use of drones and unmanned aerial vehicles (UAVs) for healthcare logistics (delivery of medical supplies, remote patient monitoring, and emergency medical support in hard-to-reach areas);
- Innovative applications of drones and UAVs in health informatics (integration with healthcare data systems, real-time health data collection, and surveillance for public health monitoring).

Main Contributing Researchers / Research Centres (tentative, if known at this stage):

- Institute of Computer Science Iasi at the Romanian Academy
- Department of Information Systems at Faculty of Management and Quality Science
- Faculty of Information Systems and Computer Science, O6U
- Human Language Technologies Research Center

Website URL of Call for Papers (if any):

under construction

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