

## **S13: Hybrid Meta-Heuristic Algorithms for Healthcare Big Data Analytics**

### **Session organizers :**

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### **Session Summary:**

In recent times the domain of Big Data has evolved as the most demanded field for research that covers various interdisciplinary technologies like mathematical and statistical analysis of domain and business knowledge through algorithms like evolutionary algorithms, Differential Algorithm, Genetic Algorithm, Swarm Intelligence, Optimization algorithm, and nature-inspired algorithms. Big Data is associated with Data mining for performing future predictions and risk analysis from both structured and unstructured data acquired from various sources of information. Traditional data management tools do not have the adequate potentiality to handle such tremendous data. In such a context, the hybridization of multiple algorithms with soft computing techniques and optimization algorithms would result in fruitful results. All such hybrid approaches can be utilized in diverse fields like health care monitoring, forecasting market trends, e-commerce, customer behavior analysis, agricultural sector business analysis, and the industrial sector. Big Data includes multiple phases in the process of contextual and predictive analysis that includes data discovery, data preparation, data analysis, feature engineering, communication, and report generation, which are employed by hybridization of the Meta-Heuristic approaches with soft computing approaches and real-time processing algorithms. The experimental studies have proven that hybrid approaches have outperformed when compared to traditional approaches.

The session focuses on trending tools, techniques, and technologies in Big Data that discuss the collection and analysis of complex data that is concerning volume, variety, and velocity. It gives an insight into scalable computing models for data-driven decision models and context-based research studies. This session provides innovative ideas and recommendations for the applications in the data science that incorporate state-of-art in theory, procedures, and applications.

### **Areas of interest (But Not Limited to)**

- Machine Vision Paradigms through optimization approaches.
- Machine learning in handling medical data for risk assessment.
- Processing of data acquired from sensors in medical applications.
- Data processing from medical imaging technology like MRI, CT and PET scan.
- Future prospects in IoT in medical diagnosis and risk analysis.
- Advancement in health care analytics from medical video data.
- Ensemble models in processing the medical data for precise diagnosis of the abnormality.
- Deep Learning techniques for processing of retrospective medical data
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### **Submission:**

In order to submit to this session, please write “**S13**” as a prefix to your manuscript name. for example, if you have your file name as “**UAVmobility.pdf**”, the submitted file name should be “**S13-UAVmobility.pdf**.”

**Template:** Template ( [Word](#) )(6 pages max , 2 more pages with extra fees) ( [Latex](#) )

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