Real-time Behavioral Monitoring in IoT Applications using Big Data Analytics

Intelligent Interactive Multimedia Systems and Services (IIMSS2018)

Real-time social multimedia level threat monitoring is becoming harder, due to higher and rapidly increasing data induction. Data induction through electric smart devices is greater compared to information processing capacity. Now a day, data becomes humongous even coming from the single source. So, when data emanates from all heterogeneous sources distributed over the globe makes data magnitude harder to process up-to a needed scale. Big data and Deep learning have become standard in providing well-known solutions built-up using algorithms and techniques in resolving data matching issues. Now with the involvement of sensors and automation in generating data obscures everything. Predicting results to overcome a current era of ever enhancing demands and getting real-time visualisation brings the need of feature like human behaviour mode extraction to overcome any future threats. Big data analytics can bring the opportunity of predicting any misfortune even before they happen.

Map reduce feature of big data supports massive data oriented process execution using distributed processing. Real-time human feature identification and detection can occur through sensors and internet sources. Starting from the above considerations, this Special Section in IEEE Access aims to bring together researchers coming from both academia and industry, asking them to contribute to refining technologies and services aimed at personalization, monitoring, and recommendation in multimedia applications in using image processing techniques for human behavioural based feature extraction. A behavioural prediction can further classify the information collected for introducing enhanced security extents. Real time sensor devices are producing 24/7 hours' data for further processing recording each event. IoT based sensors can support in behavioural analysis model of a human. Real-time human behavioural monitoring based on image processing and IoT using big data analytics.

The topics of interest include, but are not limited to:

- IoT based frame by frame human feature extraction and behaviour recognition
- IoT based real-time communication system using image processing techniques
- Interlinked resource measurement expert system
- Architecture, models, and design for Human Behavioral Monitoring in IoT Big Data
- Human behavioural monitoring in big data and IoT applications
- Image processing techniques in big data analysis
- Image based big data sensing and adaptive collection for IoT
- Real-time human behavioural measurement, modelling, evaluation, reputation generation, and tools for IoT Big Data
- Real-time human behavioural monitoring big data processing and analytics for IoT
- Real-time behaviour assessment in big data transmission with efficiency for IoT
- Image based big data storage management for IoT applications
- IoT network security measurement based on big data
- Administration and interpretation of multimedia big data
- Image base content and structure-based analytics

- Behavioral feature based learning from big data to facilitate monitoring
- Extraction of threat prediction on association rules using big data technologies
- Multimedia technology for smart surveillance system with IoT environment
- Scalable and semantics-driven indexing of ever growing multimedia data
- Human behavioural features extraction techniques for image data analysis in electrical social environment
- Image data collection, mining, and prediction methods based on big data

We also highly recommend the submission of multimedia with each article as it significantly increases the visibility, downloads, and citations of articles.

Important Dates

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