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Special Issue:

Advanced Software Engineering for Data Mining in Business, Health, Education and Social Networks (B-H-E-SN)

As the use of big data becomes more prevalent within the fields of Business, Health, Education and Social Networks, researchers have begun to examine how data from these environments can be better stored, analysed, and mined.

This Special Issue is an opportunity for scholars to represent their adoption or fusion of novel Data Mining research in the fields of Business, Health, Education and Social Networks (B-H-E-SN). More specifically, using the advancement of software engineering as a research foundation, the aim of this Special Issue is to discuss how 1) pattern analyses should be conducted and designed to understand better big data in the realm of B-H-E-SN; 2) to conduct big data-driven pattern analyses on longitudinal data; 3) to integrate heterogeneous systems; 4) to develop frameworks to make all data meaningful, accessible and available everywhere and permanently; 5) to develop Automatic Identification and Data Collectors systems; 6) to develop intelligent systems to support business, clinical, educational and management decisions, etc. These technologies improve the quality of resources available to individuals within the areas of business, patient care, and education. They can help to mitigate financial crisis, clinical risk and educational failure. At the same time, individuals in business, patients, and learners will be part of the process, having more information delivered to their mobile devices instantly. Stockholders, educators, service designers and technology intensive innovators will have more information to deliver smart services and to promote competitive advantage. This is in fact a new era of radical innovation based on data sensitive applications, capable of exploiting leading edge approaches in software engineering and data mining. This Special Issue examines these four intertwined pillars (B-H-E-SN) and the challenges software engineering researchers encounter as they attempt to capture, store and utilise human data. In light of these developments, this Special Issue aims to publish new and innovative techniques and methodologies in the field of Advanced Software Engineering for Data Mining.

Topics of interest include, but are not limited to, the following:

- Software and tools for big data management
- Security, privacy and legal issues specific to big data in B-H-E-SN
- Software, hardware and algorithm co-design, high-performance computing
- Large-scale recommendation systems and graph analysis
- Infrastructures and systems for big data analytics in B-H-E-SN
- Middleware and tools for big data analytics and managements
- Intelligent Medical Systems
- Healthcare Portals to inform and connect Patients with Physicians
- Automatic Identification and Data Collector Systems
- Unified data processing and communication systems
- Modeling, simulation and performance evaluation

All submissions are subject to the journal's peer-review procedures. The authors should follow the journal's Author Guide at <http://digital-library.theiet.org/journals/author-guide> when preparing papers for submission to the Special Issue.

For enquiries regarding this Special Issue please contact the Guest Editors:

Important dates:

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