

Tentative Outline (Preliminary Proposal)

Special/Thematic Issue for The Open Biomedical Engineering Journal

Adopting Computational and Informatics Technologies in Brain Science

Guest Editor: Dr. Chi-Bao Bui

Co-Guest Editors: Dr. Nguyen Thi Hiep, Dr. Minh Nguyen Anh Ho

Scope of the Thematic Issue:

The motives for using cognitive computing-based medical treatments are discussed in the present investigation, which also examines some recent incidents. From a very functional standpoint, applying cognitive computing approaches may give robots resembling capacities for reasoning, enabling them to deal with complex situations and high levels of uncertainty. Additionally, cognitive computing is supported by trustworthy connectivity infrastructures and cloud services, enabling efficient methods based on machines that can find remedies based on previous knowledge, utilising both unsuccessful and effective findings. Such a powerful invention can considerably assist healthcare, given these unique properties. In truth, analytics are regularly used to make medical decisions, and important scientific advances have been made by repeatedly analysing vast amounts of unstructured information, such as pictures from X-rays or computerised axial neuroimaging scanning.

Systems administrators and executive managers need help handling the emergence of novel information technological advances, as evidenced by the many issues mentioned in the source material. Another example is the classification of DNA sequences with the many variations that emerge from such a complex structure. Enhancing knowledge of the societal factors that influence the implementation and dissemination process inside organisations is one step toward offering suitable managerial guidance. This study makes a step towards that objective by assessing the applicability of the concept of innovation diffusion in the context of computing for consumers. A field survey and historical evaluation of the distribution of spreadsheet software in organisations were part of the academic project. Only the finance and accounting departments have been investigated to aid the management of external influences.

Still, the theory's validity must be consistently confirmed, indicating that computer technology spread is distinct from conventional diffusion processes. In direct opposition to the idea, personal communication routes dominated throughout the reproduction process for making decisions. In contrast to the notion that they would act as catalysts for change, IS organisations were just minor players in the diffusion method. This matched the condition's apparent user-led characteristics. The implications for practice and academic study are emphasised. Between the extremely high standards individuals develop and the difficulties that utilisation of technology might occasionally provide, the goals of the investigation were best served by concentrating on users of intelligent homes. The method of structural equation modelling was used for analysing the data that had been acquired. The results suggest that post-disconfirmation divergence causes sentiments of rage, shame, and remorse, which are correlated with processes for reducing separation and have a specific impact on one's well-being and happiness.

In light of those mentioned above, we welcome scholars to submit original research articles and review papers for the current Special Issue that will address the adoption of computational and informatics technologies in brain science.

Keywords: cognitive computing, computerised axial neuroimaging scanning, computer technology, IS organisations.

Sub-topics:

- Theories and prospective prospects for unofficial education in regards to grasping technology utilisation.
- Integrating neural computing techniques in the health care sector.
- Applying innovation diffusion theory in the framework of consumer information technology.
- A survey of consumers of intelligent homes indicates a cognitive dissonance in adopting technology.
- A meta-analysis of studies on the utilisation of computer technology in small companies.
- The acceptance and utilisation of online computing at community-based universities.
- An analysis of technological advances and results for computing in the cloud for cerebral separation.
- An analysis of the procedures and results for online computing for brain separation.
- A thorough investigation of the scientific literature on the growing role of cognitive technology in medicine.
- Individual's responses to technology for computing and social issues mental framework.
- Overview of the use of cognitive computing and its numerous uses.
- The smartwatch acceptability strategy influences the reception of prospective gadgets that are wearable.

Schedule:

- Complete Thematic issue submission deadline: **November 20, 2023**

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