

CALL FOR PAPERS*Special Issue on***Knowledge Management and IT for Healthcare**

The transformation in health related research can be traced to new scientific domains such as Bioinformatics and Cybernetics which have evolved due to trans-disciplinary research. Due to this research, healthcare systems have an increased interest in recycling knowledge acquired from previous best practices.

Professionals from the Knowledge Management and Knowledge Engineering domains had attempted to bring together different methodologies for knowledge recycling. The focus of KE practitioners has been to put emphasis on codified knowledge (ie. to discover new ways of effectively representing healthcare related information). Practitioners from KM have concentrated on macro/policy aspects on how healthcare-related information can best be disseminated to support knowledge recycling and creation of new knowledge. This contrasting approach by practitioners from these two domains is leading to the emergence of the knowledge age in healthcare.

This special issue aims to establish a convergence in thinking between Knowledge Management and Knowledge Engineering healthcare applications. This issue will assemble original and innovative contributions in the area of KM and KE applications for healthcare systems and clinical engineering applications. Suggested topics include (but are not limited to):

- Artificial Intelligence methods or related techniques (eg. Case-Based Reasoning, Neural Networks, Fuzzy Systems, Genetic Algorithms, Hybrid Systems) for construction of computational health memories (eg. agent-based systems, knowledge bases, intelligent documentary systems)
- Healthcare Intelligence Solutions
- Intranet and Internet Healthcare Solutions
- Medical Decision Support Systems and Diagnostic Decision Making Systems
- Healthcare Document Management Solutions
- Information Retrieval Methodologies
- Multimedia Healthcare solutions
- Healthcare Content Management solutions for KM
- Clinical Knowledge Architectures
- Knowledge sharing between different healthcare groups
- Active, context-dependent knowledge supply for Healthcare

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