

CALL FOR PAPERS: J-BHI Special Issue on "Service Science for e-Health"

Technological developments in computing and networking have largely made the delivery of health services possible from a distance. The key requirements for current and emerging healthcare systems are ubiquitous access to services, delivery of personalized services, broadly understood security, openness to new networking technologies and techniques for the purpose of flexible management of the quality of service (QoS) and delivery of high quality of experience (QoE). The fulfillment of the above requirements will lead to the utilization of Future Internet architectures and concepts (e.g., Internet of Things, Internet of Services, Internet of Media) as well as new system design paradigms (e.g., communication enabled applications, service oriented architecture, user centricity, content and context awareness) to design and implement advanced e-Health systems.

Service science is an emerging interdisciplinary approach to design, implement and evaluate complex service systems. It brings together science, ICT technologies and business to provide an added value to domain-specific applications of service-based systems. Service science is often defined as application of scientific, engineering, and management disciplines that integrate elements of computer science, operations research, industrial engineering, business strategy, management sciences, and social and legal sciences, in order to encourage innovation in how organizations create value for customers and shareholders that could not be achieved through such disciplines working in isolation. The application of service science in the e-Health area seems to be a natural approach to build platforms, systems and applications which meet current and future demands of the healthcare domain.

The specific focus of this special issue will be on the application of the service science to design, implement and evaluate advanced e-Health service-based systems which meet demands for the future healthcare systems such as:

- anywhere & anytime services' availability
- content & context awareness
- flexibility, scalability and composability of delivered services
- QoS & QoE assurance
- services' personalization
- self-adaptation

Topics of interest include, but are not limited to:

- Business models for e-Health services' delivery
- Cloud computing for e-Health
- Content and context awareness in e-Health systems
- e-Health services design and implementation
- Integration of e-Health systems
- Middleware for e-Health services
- Mobile Health solutions
- Models and methods for decision making support in the healthcare domain
- Network architectures for e-Health
- Personalization of e-Health services
- QoS and QoE assurance for e-Health services
- Security and privacy
- Service-based e-Health systems
- Smart health and wellbeing applications
- Social networks for e-Health
- Virtual and augmented reality for e-Health
- Wireless access to e-Health services

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