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Call for Papers

Special issue on

Innovations in Large Scale Healthcare Application Development

Large-scale healthcare system development faces various issues and challenges as engineering and management tasks get more complex at a larger scale. There is an increasing need for large-scale healthcare system-development of software projects and this poses a big challenge for those in development business. The greatest problem with large-scale healthcare systems development is probably the emergent properties of the systems, which indicate those system properties that are not embodied in any of the parts of the system, like system safety, security and performance. Application development demands unique domain expertise, project methodology, and software architecture patterns.

Developing healthcare products can be complex and fraught with risks. The industry presents a set of unique software development issues and challenges that require domain expertise, foresight and specialized knowledge. By understanding and preparing for the most commonly encountered issues in large scale healthcare application development, one can avoid typical mistakes, reduce schedule, and cost overruns. Software companies have to address a complex array of requirements, regulations and competitive forces for software projects. Highly specified, formal processes and high assurance quality requirements drive mission and safety critical software projects. Our proposed SI theme is different from these studies in a way, that it identifies the issue, opportunities, threats and weaknesses of software engineering discipline to handle the emerging and innovatively designed large scale healthcare applications. We discuss the possible challenges in large scale healthcare application development from different prospective and methods to help identifying most challenges in large scale healthcare application development.
This special issue is focused to identify the advancements, gains, threats and weaknesses in development of large scale healthcare applications. Original contributions are sought in the following areas. The areas of interest include but not limited the following:

- Methodological advancements healthcare application development
- Deep Learning and NLP (natural language processing) based healthcare application innovations
- Identification of healthcare domain for software engineers
- Challenges in healthcare applications development
- Security and privacy challenges in large scale healthcare information systems
- Healthcare application architecture in cloud environment
- Efficient data management for mobile healthcare management
- Healthcare application architecture in multi-cloud environment
- Healthcare application design challenges across heterogeneous platforms
- Security, trust, and privacy in large scale healthcare applications
- Social impact of healthcare services-community perspective
- Software risks and reeducation mechanism in large scale healthcare applications

Submission Guidelines:

All manuscripts must be submitted via mstracker.com and authors are request to write in their cover letter that their submission is for this special issue and the name of the guest editor, so that the guest editor can be notified separately. Guidelines for preparation of the manuscripts are available at the journal website http://www.aspbs.com/jmihi/inst-auth_jmihi.htm.

Prospective authors should submit an electronic copy of their complete manuscript through the journal Manuscript Tracking System at http://mstracker.com/submit1.php?jc=jmihi.

Submission Schedule:

- Paper Submission: 10th October, 2019
- Decision Notification: 10th December, 2019
- Camera Ready Submission: 10th January 2020
- Special issue Publication: March 2020.

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