ISDE 2014 PC Co-Chairs Message

Information System in Distributed Environment (ISDE) is becoming a prominent standard in this globalization era due to advancement in information and communication technologies. In distributed environments, business units collaborate across time zones, organizational boundaries, work cultures and geographical distances, to an increasing diversification and growing complexity of cooperation among units. The advent of the Internet has supported Distributed Software Development (DSD) by introducing new concepts and opportunities, resulting in benefits such as scalability, flexibility, interdependence, reduced cost, resource pools, and usage tracking. DSD brings challenges to distributed software development activities due to geographic, cultural, linguistic, and temporal distance among project development teams. The number of organizations distributing their software development processes worldwide to attain increased profit and productivity as well as cost reduction and quality improvement is growing. Despite the fact that DSD is widely being used, the project managers and software professionals face many challenges due to increased complexity, cultural as well as various technological issues. Therefore, it is crucial to understand current research and practices with researchers and practitioners in these areas.

Following selected papers of ISDE 2014 international workshop in conjunction with OTM conferences present recent advances and novel proposals in this direction.

Juan Garbajosa, Agustin Yague, Eloy Gonzalez in their work on communication in agile global software development: an exploratory study reports an exploratory study on the impact of different communication elements, including tools, obtained both from monitoring some agile distributed projects, and from getting the perceptions of team members.

In collaborative brainstorming activity results and information systems by Claude Moulin, Kenji Sugawara, Yuki Kaeri, Shigeru Fujita, Marie-Hélène Abel presented the architectural design of the distributed application used for the resource channel using several tactile devices with different size that display the resources. Finally, it reports an experiment with two teams situated in Japan and France.

Liguo Yu, Alok Mishra, Deepti Mishra in their empirical study of the dynamics of GitHub repository and its impact on distributed software development reviewed different kinds of version control systems and study the dynamics of GitHub, i.e., the ability and scalability of GitHub to process different requests and provide different services to different GitHub projects and GitHub users.

Patterns of Software Modeling by Wolfgang Raschke, Massimiliano Zilli, Johannes Loinig, Reinhold Weiss, Christian Steger, Christian Kreiner provided an
evolutionary view of software systems and models which helps to understand current problems and prospective solutions.

Jesus Vallecillos, Javier Criado, Luis Iribarne, Nicolas Padilla proposed an architecture for specification, storage, management and visualization of components, built from widgets complying with the W3C recommendation, for making web user interfaces.

Jukka Kääriäinen, Susanna Teppola, Matias Vierimaa, Antti Välimäki discussed significance of a systematic upgrade planning service in a distributed operational environment and presented the process description and related tools that have been composed based on an industrial case study in an automation company.

Privacy-aware agent-oriented architecture for distributed eHealth systems by Adel Taweel, Samhar Mahmoud, Arahman Tawil presented an approach for privacy-preserving agent-oriented architecture that enables organizations to work together overcoming sharing sensitive data and evaluates its use within a real-life project.

In the paper policy-based authorization framework in audit rule ontology for continuous process auditing in complex distributed systems, Numanul Subhani, and Robert Kent proposed a mechanism, materialized views, for frequently accessed authorized data in near real-time for distributed decision support systems.

A novel mechanism for dynamic optimization of intercloud services by Lohit Kapoor, Seema Bawa, Ankur Gupta proposed a dynamic service ranking and selection mechanism which allows users fine-grained control over service consumption, while maximizing service provider revenues.

Literature review of DSD and cultural issues have been discussed by Alok Mishra and Deepti Mishra. They reported although many studies have been performed in culture and distributed software development, still impact of culture in distributed software development in different dimensions and empirical comparative studies received less attention.

A distributed service-based system for homecare self-management by Adel Taweel, Lina Barakat, Simon Miles reported design of a distributed system that enables homecare in the context of management of self-feeding through balanced nutritional intake.

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