

SPI MEETS IN SOFIA
Joint Conference: EuroMed SPI & CEE SPI
18th - 19th October 2010
Sofia, Bulgaria

Title of the presentation /Tutorial

Practical Approach to Functional Testing for SMEs

Speaker(s)

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Category

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|---|--|--|
| <input checked="" type="checkbox"/> Getting Started | <input checked="" type="checkbox"/> Intermediate | <input type="checkbox"/> High Maturity |
| <input checked="" type="checkbox"/> Presentation | <input type="checkbox"/> Tutorial | |
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Target Audience

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| <input type="checkbox"/> Senior Management | <input type="checkbox"/> IT Managers |
| <input checked="" type="checkbox"/> Project Leaders | <input checked="" type="checkbox"/> SEPG Leaders |
| <input checked="" type="checkbox"/> Practitioners | <input type="checkbox"/> Others: |
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Key Words

Software Testing, Functional Testing, Process Improvement, Testing Tool

Abstract (maximum 250 Words)

This presentation proposes a new practical approach to process improvement for functional testing in SMEs, referred to as the Testing Process Improvement Guide (TPIG). The TPIG unites two main approaches for testing standardization: the ISTQB Body of Knowledge, representing a people-oriented approach, and the TMMi, representing a process-oriented approach. The TPIG uses the ISTQB fundamental test process as its main skeleton and the TMMi Level 2 as the underlying prescriptive process improvement model.

The TPIG is built around two dimensions: the first is the test project phase whereas the second is the software engineering discipline. The core software engineering disciplines are Test Management and Test Engineering, and the supporting disciplines include Peer Review, Quality Assurance, and Configuration Management. The TPIG procedures have two types of relationships: the parent-child and the synchronization. The parent-child relationship exists for focus, ease of management, and better mapping to testing techniques. The synchronization relationship exists to represent a synchronization or feedback point between procedures belonging to different model phases.

The presentation discusses a set of faced challenges. These include mapping between and balancing prescriptive and descriptive models, accurately identifying the target context, balancing project-

level against organization-level definitions, having the right model weight and implementation intensity, calibrating the model's data and process definition, and last but not least achieving scalability.

The TPIG components are linked to the above challenges. Available data are analyzed for Identifying the implementation context, and the expected implementation benefits are listed.

CV (200 words)

Yasser Ghanim has 15+ years of experience in IT. Mr. Ghanim possesses a wide, in-depth knowledge of process improvement models, frameworks, and tools. Mr. Ghanim is a certified ISTQB Test Manager, holds a technology MBA degree from Arab Academy for Science, Technology, and Maritime Transportation, Egypt, and holds a B.Sc. in Pure Math and Computer Science from Ain Shams University, Egypt. Mr. Ghanim is currently at the Software Engineering Competence Center (SECC), Egypt, working as a Quality Expert and Testing Manager.

Photo



Yasser Ghanim

Hossam Osman has 25+ years experience in IT and software engineering. Dr. Osman is currently at SECC, Egypt, working as the R&D Unit Manager and the ESICenter SECC Managing Director. Dr. Osman received the B.Sc. and M.Sc. degrees in electrical engineering from Ain Shams University, Egypt, in 1985 and 1990, respectively, and the Ph.D. degree in electrical and computer engineering from Queen's University, Canada, in 1996.

Dr. Gamal Aly has 30+ years experience in IT. Dr. Aly is the Chairman of SECC, Egypt. Dr. Aly is also a Chairman of the IT Dispute Resolution Committee, Ministry of Communications and Information Technology, Egypt. Dr. Aly received his Ph.D. in Electrical Engineering, University of Calgary, Alberta, Canada, in 1972.

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