

JSTQB カンファレンス in 2010 「ISTQB world trend reports」 Session 4. Panel discussion

世界のソフトウェアテスト最前線

The front of test of software of the world.

2010年10月14日

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Abstract

- ▶ ISTQBメンバーをパネリストに迎えて、各国のソフトウェアテストに対する取組みの状況を話していただきます。
- ▶ それをふまえたうえで、これからのソフトウェアテスト技術者に求められる行動やスキルについて提言していただきます。
- ▶ Please invite the ISTQB member as the panelist, and speak the situation of the approach on the test of software in each country.
- ▶ Please propose the action and the skill required of the software test engineer in the future after basing it.

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Goal (1 / 2)

- ▶ 近代のソフトウェア開発に必要なソフトウェアテスト技術のヒントを得る
- ▶ The hint of a software testing technology necessary for the software development of modern ages is obtained.

Goal (2 / 2)

- ▶ ソフトウェアテスト技術者としてのプレゼンスを高め、経営層からも一目置かれる存在になるための活動指針を得る
- ▶ Presence as the software test engineer is improved, and the activity indicator because of becoming existence to acknowledge the superiority from the management is obtained.

Agenda

1. パネリストの紹介
2. ディスカッション

1. Panelist's introduction
2. Discussion

1. Panelist's introduction



1. Panelist's introduction

- ▶ Rex Black
 - Rex Black Consulting Services, Inc. President
- ▶ Bernard Homes
 - Principal consultant
TESSCO Technologies inc.
- ▶ Klaus Olsen
 - CEO of Softwaretest.dk,
Board member of TMMi
Foundation
- ▶ 大西建児
 - ガイオ・テクノロジー株式会社
- ▶ Rex Black
 - Rex Black Consulting Services, Inc. President
- ▶ Bernard Homes
 - Principal consultant
TESSCO Technologies inc.
- ▶ Klaus Olsen
 - CEO of Softwaretest.dk,
Board member of TMMi
Foundation
- ▶ Kenji Ohishi
 - GAIO TECHNOLOGY CO.,
LTD.

1. Coordinator's introduction

- ▶ 石井勇一
 - NECラーニング株式会社
- ▶ 湯本 剛
 - 日本ヒューレット・パッ
カード株式会社
- ▶ Yuichi Ishii
 - NEC Learning, Ltd.
- ▶ Tsuyoshi Yumoto
 - Hewlett-Packard
Japan, Ltd.

2. Discussion



2. Introduction of discussion theme

- 今、開発すべきソフトウェアテスト技術は？
- What is the needed software testing technology?

Main point of discussion

- ▶ パネリストの方々の自国における組込みソフトウェア開発現場を元に、大規模な組込みシステム、複雑な組込みシステムにおける、効率的&効果的なソフトウェアテスト技術についてディスカッションします。
- ▶ Please talk about the efficient, effective software test technology in a large-scale embedded system and a complex embedded system based on information from embedded software development site of home country.

Target

- ▶ 主に日本のFL資格取得者で、次にAL取得を目指している方々
- ▶ リーダクラスやマネージャークラスの技術者を想定
- ▶ For the Foundation Level qualification acquirer in Japan in which it aims at Advanced Level acquisition.
- ▶ And so, the team reader or the manager is targeted.

Background (1 / 3)

- ▶ 組み込みシステムにおける開発期間は十数年前と比べると非常に短くなっている。
- ▶ It is very short at the development period in the embedded system compared with a lot of years ago.

Background (2 / 3)

- ▶ また、機能の複合化およびシステムの肥大化に伴い、基本的なテスト技術だけでは対応できないシステムが多くなってきている。
- ▶ In addition, the number of systems has increased that cannot test only by a basic test technology, because the expansion of the development scale and the complexity of the function increase.

Background (3/3)

- ▶ しかし、開発が忙しいため、高度なソフトウェアテスト技術を身に付けたくても身に付けられない。
- ▶ Therefore, the software test technology that matches it to present software is needed, too.

現状を打破したい！
I want the proposal to overturn the status quo.

Proposal from Rex Black

- ▶ Use analytical risk-based testing strategies
- ▶ Define realistic objectives for testing, with metrics
- ▶ Institute continuous test process improvement based on lessons learned from previous projects
- ▶ Have trained and certified test teams
- ▶ Distribute testing work intelligently
- ▶ See also
 - “Five Testing Best Practices”
 - Webinar Slides (complete with audio):
<http://www.rbc-us.com/media/video/FiveTestingBestPracticeswebinar.wmv>
You will need to install the GoToMeeting codec for Windows Media Player in order to view these webinars. Please confirm detailed information with URL here.
<http://www.rbc-us.com/software-testing-resources/library/digital-library>
 - Presentation file:
<http://www.rbc-us.com/images/documents/testing%20best%20practices.pdf>

Proposal from Bernard Homes

- ▶ Evaluate where you are
- ▶ Determine where you want to reach
- ▶ Improve
- ▶ Measure continuously
- ▶ Start again

Proposal from Klaus Olsen

- ▶ Use TMMi as an organization and individual
- ▶ Test Techniques
- ▶ Prioritize test areas, functional and non-functional
- ▶ User ideas form Test First concept of Agile development
- ▶ V-Model, No News, plan test from start of projects is still a good idea
- ▶ Systems of Systems

Proposal from Kenji Onishi

- ▶ ファズ・テスト
- ▶ セキュリティ・テスト
- ▶ ネットワーク連携機器
テスト
- ▶ 機能安全のためのテスト
- ▶ 複合マシンインター
フェーステスト
- ▶ Fuzz Testing
- ▶ Security Testing
- ▶ Network
cooperative devices
Testing
- ▶ Testing for
Functional Safety
- ▶ Complex Machine
Interface Testing