

「広島サマーセミナー 2013 ～ ソフトウェア工学におけるオペレーションズ・リサーチの活用」研究部会【平成 25 年度中国・四国支部運営費】活動報告

(主査:土肥正 (広島大学), 幹事:岡村寛之 (広島大学), 肖霄 (広島大学))

1. 実施報告

1.1 第1回セミナー

日時:平成25年8月2日(金) 11:00～12:00

会場:広島大学 工学部 工 A1-111 号教室

(住所:東広島市鏡山 1-4-1)

講師:Dr. Kazu Okumoto (Distinguished Member of Technical Staff, Alcatel-Lucent, USA)

題目:”Software Reliability & Availability: Measurement, Prediction, Application”

概要:

Today, as part of the new Alcatel-Lucent innovation engine, Bell Labs designs products and services that are at the forefront of communications technology, and conducts fundamental research in fields important to communications. Current research areas and projects are briefly introduced.

In recent years many product suppliers have been implementing complex software-controlled systems with a large number of software functions for delivery on a short development schedule. A majority of field problems are associated with software. This presentation proposes a procedure for implementing software reliability predictions, which address customer's concern about service-impacting outages and system stability in the field. The proposed approach is relatively new and based on customer views. It has been validated with actual data for release over release and successfully applied to various tele-communication products such as base station, radio network controller, and core network, associated with 3G & 4G wireless technologies.

A large number of software reliability growth models have been proposed in the last four decades. There are still some hesitation and reluctance in applying to actual projects. Key issues with the current approach are addressed. This presentation clearly defines data requirements in terms of test defects and field outages to ensure a good data collection process. The effect of operational profile is incorporated to demonstrate the changes in defect find rate from internal test through pre-cutover test and in-service operation. A software reliability growth model is a necessary key step, but not sufficient for addressing customer-perceived reliability measures.

The proposed approach is a result from in-depth investigations of test defect data and field outage data over many years. It is not only a

practical approach for tracking software reliability through defect data from internal test and field but also a valuable tool for determining whether a software product is ready for the delivery. It helps assure the delivery of highly reliable software.

1. 2 第2回セミナー

日時:平成25年9月20日(金) 15:00~16:00

会場:広島大学 工学部 工 109 号教室

(住所:東広島市鏡山 1-4-1)

講師:Prof. Qun Jin (Department of Human Informatics and Cognitive Sciences, Waseda University)

題目:“Towards Sustainable Use of Personal Big Data: A Human-Centric Integrated Approach”

概要:

Nowadays our work, daily life and many other social activities become more dependent on the cyber space. We are living in a ubiquitous network society, which features a kind of seamless integration of real physical world and cyber digital space. Wireless sensor and ubiquitous computing technologies make it possible to capture individual information behavior and any other data relevant to a specific individual at any place and anytime, and make a log, which can be called life log. Life log is a kind of personal data, created by and about an individual person. Long-term or even lifelong accumulating of life log for an individual becomes big data, or personal big data. In this talk, we present our vision and concept on sustainable use of personal big data from a human-centric perspective. We introduce an ecologically integrated framework of information environments, and discuss how to build a unified individual model from personal big data. We further address and describe issues for design, implementation and applications of such a system to realize individualized sustainable use of personal big data.

2. 会計報告

	決算	備考
(収入の部)		
支部交付金	23,702	
収入合計①	23,702	
(支出の部)		
講演謝金(8月2日)	12,565	@12,565 × 1
講演謝金(9月20日)	11,137	@11,137 × 1
支出合計②	23,702	
残高(①-②)	0	

実施報告, 会計報告, 領収書を監査した結果, 適切に処理されていることを確認致しました.

署名

福山 敬



2. 会計報告

	決算	備考
(収入の部)		
支部交付金	23,702	
収入合計①	23,702	
(支出の部)		
講演謝金(8月2日)	12,565	@12,565 × 1
講演謝金(9月20日)	11,137	@11,137 × 1
支出合計②	23,702	
残高(①-②)	0	

実施報告, 会計報告, 領収書を監査した結果, 適切に処理されていることを確認致しました.

署名

西崎 一印

