
Contents

Preface

Dennis Tsichritzis and Monique Levfèbvre

Editorial Introduction

Monika Müllerburg and Alain Abran..... 1

Controlling the Software Development Process

How to Successfully Implement a Measurement Program: from
Theory to Practice

Jean-Marc Desharnais and Alain Abran 11

Software Process Engineering Activities in Québec

Claude Y. Laporte 27

ESPRIT 5441 BOOTSTRAP: A European Assessment Method for
Evaluating Process Maturity Profiles and ISO Requirements

Günther Koch and Richard Messnarz 39

Trillium: A Customer-Oriented Assessment Method for
Software Development Capability

François Coallier 65

The Adventure of Software Project Management - An Overview
of the SESAM Project

Kurt Schneider and Marcus Deininger 83

Software Engineering Measurement

Software Metrics at the Institute for Safety Technology <i>Francesca Saglietti</i>	113
Analyzing, Presenting and Using Static Measurements <i>Pierre-N. Robillard</i>	125
Module Coupling and Control Flow Representation Based on Static Analysis <i>Pierre-N. Robillard</i>	139
Static Analyzers: Experience at the Institute for Safety Technology <i>Joseph März</i>	157
Software Quality Measurement in Object-Oriented Software Development <i>Reiner Dumke</i>	179

Functional-Size Metrics

Function Point Analysis: The Volkswagen Story <i>Rolf Großjohann</i>	201
Function Point-Based Production Models <i>Alain Abran</i>	223
The Function-Point-Assistant: a Joint German-Québec Initiative <i>Monika Müllerburg, Alain Abran, Jean-Marc Desharnais, Dirk Meyerhoff and Denis St.-Pierre</i>	247

Appendix:

A Authors' Addresses	275
B List of Referees	279