Software Engineering Process

Bibliography

Version 1.0

2002

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# Table of contents

1 INTRODUCTION ................................................................. 4

2 SOFTWARE ENGINEERING .............................................. 5

2.1 General Software Engineering ....................................... 5

2.2 Software Problems ....................................................... 5

3 GENERAL MANAGEMENT, PROCESS, AND QUALITY .......... 7

3.1 General Management ................................................... 7

3.2 TQM ............................................................................. 7

4 SOFTWARE PROCESS ....................................................... 9

4.1 General Software Process ............................................. 9

4.2 Software Process Modelling ......................................... 12

4.3 Software Process Assessment and Improvement (SPA & SPI) .... 13

4.4 Software Capability Evaluation .................................... 17

4.5 General and Process Focused Measurement .................... 19

5 PROCESS MODELS ....................................................... 21

5.1 Main Models ............................................................... 21

5.1.1 CMM ........................................................................ 21

5.1.2 CMMI ....................................................................... 24

5.1.3 ISO9000 series ........................................................ 24

5.1.4 SPICE – ISO/IEC15504 ............................................ 25

5.1.5 TickIT ....................................................................... 26

5.1.6 Bootstrap ................................................................. 26

5.2 Other Appraisal/Improvement Models and Methods .......... 26

6 SPA & SPI : CASE STUDIES ............................................. 29

7 ORGANIZATIONAL CULTURE ....................................... 32

7.1 People Issues ............................................................... 32

7.2 Organizational Culture and Teams (IC) .......................... 33

8 CMM-BASED CLASSIFICATION ..................................... 34

8.1 Maturity Level 2 – Repeatable ...................................... 34

8.1.1 Requirements Management (RM) ............................... 34
8.1.2 (Software) Project Planning (SPP) ........................................................................................................34
8.1.3 (Software) Project Management (PTO, ISM) ..........................................................................................35
8.1.4 Customer-Supplier Relationship (SSM, Acquisition, Customer Satisfaction) ............................36
8.1.5 Software Quality Assurance (SQA) ......................................................................................................36
8.1.6 Software Configuration Management (SCM) .....................................................................................36

8.2 Maturity Level 3 – Defined ..........................................................................................................................37
  8.2.1 Organizational Process (OPF, OPD) .......................................................................................................37
  8.2.2 Training (TP) .........................................................................................................................................37
  8.2.3 Risk Management ..................................................................................................................................38
  8.2.4 Integrated Product and Process Development (Concurrent Engineering) .....................................38
  8.2.5 Software Engineering (SPE, SQM) .......................................................................................................38
  8.2.6 Peer Reviews (PR) ..................................................................................................................................39

8.3 Maturity Level 4 – Managed ......................................................................................................................40
  8.3.1 Statistical Process / Quality Control (QPM, SQM) ...............................................................................40
  8.3.2 Product Knowledge Management: Domain Engineering, Product Lines, and Reuse .................42

8.4 Maturity Level 5 – Optimizing ..................................................................................................................42
  8.4.1 Defect Prevention (DP) .........................................................................................................................42
  8.4.2 Change Management (TCM, PCM) .....................................................................................................43
1 Introduction

The main purpose of this bibliography consists in making an inventory as complete as possible of published works about the Software Engineering Process in general as defined by K. El Emam in SWEBOK\(^1\). So a maximum of works directly relating to this domain has been taken into account.

Different sources have been used to collect these references. There are essentially six types of sources: books, journals and magazines, conference proceedings, reports, Ph.D. dissertations and existing bibliographies. However as it was not possible to examine all journals, magazines and conferences proceedings only the most important ones have been taken into account.

The adopted structure comes from the bibliography “A Software Process Bibliography” developed by Mark C. Paulk at SEP\(^2\). This structure has been modified to allow the addition of new references. The last part called “CMM based classification” come from Mark Paulk’s bibliography and is exactly the same from both a structure and content point of view. Thus, we would like to thanks Mark Paulk for accepting the use of his bibliography in our work.

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2 Software Engineering

2.1 General Software Engineering

[BROO95]

[BROO87]

[DMAR95]

[FENT94]

[JONE94]

[PFLE98]

[PRES00]

[SHAW90]

[SWEB01]

2.2 Software Problems

[CHAR95]

[JOHN95]

[KANE97]
[PAUL89]  

[REPO87]  

[STRI97]  
3 General Management, Process, and Quality

3.1 General Management


3.2 TQM


[DEMI86]

[DEMI94]

[GARV87]

[HAMM93]

[HARR00]

[ISHI85]

[JURA88]

[MASA86]

[NIVE93]

[REPE01]

[SENG90]
4 Software Process

4.1 General Software Process

[BACH95b]

[BENE01]

[BILL94]

[CLAR97]

[CUGO98]

[CURT88]

[CURT00]

[DEIT90]

[DROM96]

[DOWS93]

[FEIL93]

[FUGG96]


4.2 Software Process Modelling

[AHON02]

[ARLO97]


### 4.3 Software Process Assessment and Improvement (SPA & SPI)


[MFEE96]

[MGOW93]

[OCON02]

[OHIR00]

[OTT99]

[PAUL92]

[REIB97]

[RICH01]

[RICH02]

[RISI00]

[RUIZ02]

[SAND98]

[SEL95]


### 4.4 Software Capability Evaluation

[BRIA95]

[BYRN96]

[NEWB96]

[PAUL94]

[RUGG93]
4.5 General and Process Focused Measurement


[LOTT93]

[MOLL93]

[PFLE93]

[PFLE94b]

[PUTN97]

[RAFF00]

[SCHN02]

[SIMM96]

[TUFT83]

[WEER94]

[WEIN93]

[WOLF93]
5 Process Models

5.1 Main Models

5.1.1 CMM


[DREW92]


### 5.1.2 CMMI


### 5.1.3 ISO9000 series


5.1.4 SPICE – ISO/IEC15504


5.1.5 TickIT


5.1.6 Bootstrap


5.2 Other Appraisal/Improvement Models and Methods


[COLE98]

[HABR99a]

[HABR99b]

[ISAC01]

[KUVA99b]

[LARY00]

[LEUN01]

[MADH90a]

[MADH90b]

[MADH90c]

[MADH90d]

[MADH91a]

[MADH91b]
[MADH94]

[MART00]

[SHEA97]

[VISC98]
6 SPA & SPI : Case Studies


7 Organizational Culture

7.1 People Issues


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7.2 Organizational Culture and Teams (IC)

[BEMO95]

[HAND91]

[KATZ93]

[POOL99]

[SCHO96]

[SCHR89]
8 CMM-based classification

8.1 Maturity Level 2 – Repeatable

8.1.1 Requirements Management (RM)

[BOEH99]

[KRAS89]

[WEIN93]

8.1.2 (Software) Project Planning (SPP)

[ABDE86]

[BOEH00]

[DAVI97]

[HIHN91]

[LEDE92]

[MCON01]

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[PARK96]  

8.1.3 (Software) Project Management (PTO, ISM)

[ABDE91]  

[CHEL94]  

[CONS01]  

[COOP93]  

[COOP94]  

[LOCH99]  

[DMAR82]  

[GILB88]  

[OLSE93]  

[STAR94]  

[THAM86]  

[WHIT95]  
8.1.4 Customer-Supplier Relationship (SSM, Acquisition, Customer Satisfaction)

[WOOD99]

8.1.5 Software Quality Assurance (SQA)

[AQUI90]

[BUCK84]

[BUCK87]

[CRAI99]

8.1.6 Software Configuration Management (SCM)

[BERS88]

[BERS91]

[DART92]
8.2 Maturity Level 3 – Defined

8.2.1 Organizational Process (OPF, OPD)

[ARM93]

[CURT87]

[CURT92]

[DAND96]

[FOWL90]

[KELL99]

[MADA00]

[RIFK02]

8.2.2 Training (TP)

[ARGY91]

[GARV93]
8.2.3 Risk Management

[BERN96]

[BOEH89]

[CHAR96]

[KITC97]

[WILL97]

8.2.4 Integrated Product and Process Development (Concurrent Engineering)

[BLAC96]

[SMIT97]

[SOBE98]

8.2.5 Software Engineering (SPE, SQM)

8.2.5.1 Requirements

[GAUS89]

[YOUN01]
8.2.5.2 Design


8.2.5.3 Programming


8.2.5.4 Testing


8.2.6 Peer Reviews (PR)


8.3 Maturity Level 4 – Managed


8.3.1 Statistical Process / Quality Control (QPM, SQM)


8.3.2 Product Knowledge Management: Domain Engineering, Product Lines, and Reuse


8.4 Maturity Level 5 – Optimizing

8.4.1 Defect Prevention (DP)


8.4.2 Change Management (TCM, PCM)

[ABRA00]

[BASI94]

[BEER90]

[BOHN94]

[DAVI92]

[FICH99]

[KITC95]

[KOTT95]

[MOOR91]

[ROGE83]

[SCHA92]