A Bibliography of Publications in *Empirical Software Engineering*

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**Title word cross-reference**

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Porter:1997:FLA


Valett:1997:PUE


ElEmam:1997:QAR


Lindvall:1997:EIA


vonMayrhauser:1997:IOK


Morasca:1997:AQG


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Harrison:1997:PME


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REFERENCES


REFERENCES


REFERENCES


REFERENCES


[Harrison:1999:DME]


[Harrison:2000:IA]


[Harrison:2000:EIE]


[Angelis:2000:STE]


[Brooks:2000:HCI]


[Jeffrey:2000:IDA]


[Rainer:2000:EIS]

[100] Austen Rainer. An empirical investigation of software project sched-
REFERENCES

Harrison:2000:IB


Singer:2000:EES


Wesslen:2000:RES


vonMayrhauser:2000:AUE


Gonzales:2000:CSS


Anonymous:2000:EE


Shepperd:2000:BPS


Berry:2000:IAS

[108] Michael Berry and Ross Jefery. An instrument for assessing software measurement programs. Empirical Soft-


REFERENCES


Anonymous:2001:Ib


Anonymous:2001:EOS


Fenton:2001:VAC


Schneidewind:2001:KRS


El-Emam:2001:MLS


Arisholm:2001:ACT


Anonymous:2001:CP


Singer:2001:WHR

REFERENCES


El-Emam:2001:EOS


Vinson:2001:GSE


Seaman:2001:EQS


Gotterbarn:2001:EQS


Hall:2001:EIS


Lethbridge:2001:MSE


Sieber:2001:YOR

REFERENCES


REFERENCES


REFERENCES


Purchase:2002:EEA


Biffi:2002:URG


Anonymous:2002:Ic


Khoshgoftaar:2002:UCF


Stringfellow:2002:EMS


Laitenberger:2002:ICS


Jørgensen:2002:CST
REFERENCES


Taghi M. Khoshgoftaar and Naeem Seliya. Fault prediction modeling for...

Wohlin:2003:PAS


Thelin:2003:EEU


Briand:2003:1c


Khoshgoftaar:2003:ABP


Schach:2003:DDM


Pfahl:2003:ERE


Jeffery:2004:1

REFERENCES


REFERENCES


[Kajko-Mattsson:2005:SDP]


[Reinhartz-Berger:2005:OVU]


[Succi:2005:EED]


[Briand:2005:I]


[Kajko-Mattsson:2005:SDP]


[Succi:2005:EED]


[Briand:2005:I]

Karahasanovic:2005:CFD


Svahnberg:2005:IMI


Khoshgoftaar:2005:ANT


McDonald:2005:IPP


Song:2005:SNS


Anonymous:2005:Ib


Damian:2005:RED

REFERENCES


Anda:2005:IRU

Lethbridge:2005:SSE

Sharp:2005:UMA

Zettel:2005:MSC

Anonymous:2005:ic

Do:2005:SCE

Vegas:2005:CSS

Verelst:2005:ILA
[230] Jan Verelst. The influence of the level of abstraction on the evolvability of conceptual models of information systems.

Takagi:2005:EAC


Segal:2005:WSE


Anonymous:2006:Ca


Ellims:2006:EUT


Do:2006:PJT


Goseva-Popstojanova:2006:ECS


Maldonado:2006:PBR

Syed-Abdullah:2006:IAM


Anonymous:2006:Ib


Sinha:2006:EEH


Karlstrom:2006:IAS


Bunse:2006:UPR


Sfetsos:2006:IEP


ochDag:2006:ELT


Anonymous:2006:ESI


[253] Jeffrey Carver, Forrest Shull, and Victor Basili. Can observational techniques help novices overcome the software inspection learning curve?
REFERENCES


[Subramanian:2006:ESE]


[Anda:2006:EIU]


[Grindal:2006:ECS]


[Anonymous:2006:ESE]


[Briand:2007:Ia]


[Karlsson:2007:PWC]


[Waeselynck:2007:SAA]

REFERENCES


[268] Lionel Briand and Vic Basili. In this issue. *Empirical Software Engineering*, 12...
REFERENCES

Kirk:2007:IAP


Counsell:2007:QMD


Moser:2007:EAC


Milewski:2007:GTE


Briand:2007:Id


Li:2007:PA


Lawrie:2007:QIQ

REFERENCES


Briand:2007:If


Yeh:2007:ESR


Muller:2007:EET


Wojcicki:2007:MIG


Kommeren:2007:PEG


Maldonado:2008:II


Mendes:2008:RSC


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Li:2008:AAW


Kitchenham:2008:EGR


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Jung:2008:ICP


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Jiang:2008:TEF


Fenton:2008:EEL


Koru:2008:TRD


Sim:2008:GEI


Falke:2008:EEC


Knodel:2008:ERG


Lormans:2008:ICS


Kapser:2008:CCH

[319] Cory J. Kapser and Michael W. Godfrey. “Cloning considered harmful” consid-

**Etzkorn:2009:SII**


**Poshyvanyk:2009:UIR**


**Tairas:2009:IRP**


**DeLucia:2009:AIB**


**Cleary:2009:EAI**


**Gupta:2009:CSC**


**Hewett:2009:MSD**

REFERENCES


Azzeh:2010:FGR


Smite:2010:EEG


Zou:2010:IAR


Hata:2010:FPM


Benestad:2010:UCD


Lee:2010:DAP


Hackbarth:2010:ASS


Fallessi:2010:AES

Davide Fallessi, Muhammad Ali Babar, Giovanni Cantone, and Philippe Kruchten.

Weyuker:2010:CES


Gokhale:2010:MMS


Williams:2010:GES


Zheng:2010:AQA


deAlmeida:2010:TPP


Sarbu:2010:POB


Klas:2010:SPC


DeLucia:2010:ECU


Porras:2010:ESE


Mittas:2010:LLS


Huynh:2010:EIO


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Ivarsson:2011:MER


Posnett:2011:ESI


[Dybaa:2011:QRS]


[McLeod:2011:QRS]


[Sim:2011:GWS]


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[Martens:2011:MCB]

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References

Menzies:2012:SIR

Murphy:2012:DBG

Myrtveit:2012:VRE

Mittas:2012:PTB

Turhan:2012:DSP

Gonzalez-Barahona:2012:RES

Azzeh:2012:RAC


Hoda:2012:DGT

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Corazza:2013:UTS

OCinneide:2013:ISI

Yoo:2013:GTS

Arcuri:2013:PTD

Walia:2013:UEA

Seo:2013:VOE

Feigenspan:2013:DBC

Koziolek:2013:PRP


[456] Emad Shihab, Akinori Ihara, Yasutaka Kamei, Walid M. Ibrahim, Masao Ohira, Bram Adams, Ahmed E. Hassan, and

Xie:2013:ISI


Parnin:2013:AUJ


Pagano:2013:HDO


Hindle:2013:ATN


Callau:2013:HWD


Davies:2013:SB


Canfora:2014:HCA


Carver:2014:RSE


Fucci:2014:RTT


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Eyolfson:2014:CBB


Ceccato:2014:FEA


Lavazza:2014:ESC


Yamashita:2014:ACC


Ihme:2014:CIP


O saiweran:2014:EIF


Lanubile:2014:RCT

REFERENCES


Frasier:2014:GES


deOBros:2014:EEI


Frederics:2014:AAR


Aitken:2014:ERN


Chen:2014:SPE


Borg:2014:RDS


Bavota:2014:AEC

REFERENCES


REFERENCES


REFERENCES


REFERENCES


[548] Ekrem Kocaguneli, Tim Menzies, and Emilia Mendes. Transfer learning in effort estimation. *Empiri-
Afzal:2015:EEE


Russo:2015:MSL


DiGiuseppe:2015:FDF


Petersen:2015:EIO


Santos:2015:FEI


Bavota:2015:TSR


Yang:2015:CMC

REFERENCES


[562] Mohammad Gharehyazie, Daryl Posnett, Bogdan Vasilescu, and Vladimir...
REFERENCES


REFERENCES


[576] Elder Macedo Rodrigues, Flávio Moreira de Oliveira, Leandro Teodoro Costa,


Anna Corazza, Sergio Di Martino, Valerio Maggio, and Giuseppe Scanniello. Weighing lexical information


[590] Kim Herzig, Sascha Just, and Andreas Zeller. The impact of tangled code

Wang:2016:IBM


Hindle:2016:CAT


Koziolek:2016:ASP


Hunsen:2016:PBV


Vidal:2016:UAE


Cheung:2016:DNM


Kim:2016:AI

[597] Suntae Kim and Dongsun Kim. Automatic identifier inconsistency detection using code dictionary. *Emp-
Misirli:2016:SHI


Scholtes:2016:ARL


Damevski:2016:FSH


Munir:2016:OIS


Robbes:2016:GES


Chen:2016:DCM


Haller:2016:SDS

Walkinshaw:2016:IEF


Maort:2016:MA


Jaafar:2016:EID


Baysal:2016:ITN


Adams:2016:ESI


Calefato:2016:AIR


Tu:2016:EIT


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Bagheri:2016:FSI


Wang:2016:STC


Myllarniemi:2016:PVS


Sobernig:2016:QSA


Asadi:2016:EVI


Passos:2016:CVM


Becan:2016:BOK


Zhang:2016:TBU


McIntosh:2016:ESI


Ponzanelli:2016:P


Wang:2016:CTC


Nguyen:2016:AMA


Tian:2016:UBS


Unterkalmsteiner:2016:LSI


Wu:2016:ESA

Wei Wu, Foutse Khomh, Bram Adams, Yann-Gaël Guéhéneuc, and Giuliano

Li:2016:ASR


Kessentini:2016:GES


Ali:2016:IPO


Anonymous:2017:AES

REFERENCES


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LeGoues:2017:GES


Rojas:2017:DIE


Mkaouer:2017:RMO


Kifetew:2017:GVG


Mader:2017:ESS


Staahl:2017:ATL


Falessi:2017:ENR


[698] Laura MacLeod, Andreas Bergen, and Margaret-Anne Storey. Documenting


REFERENCES


Joblin:2017:ETD


Lin:2017:SUU


Riaz:2017:IIF


Lenberg:2017:IAS


Johanson:2017:EED


Le:2017:WLT


Mantyla:2017:GES

REFERENCES


Fernandez:2017:NPR


Bano:2017:USS


Bajwa:2017:TFC


Lehtinen:2017:ROP


Paige:2017:FSS


Dieste:2017:EEE


Jongeling:2017:NRW

[726] Robbert Jongeling, Proshanta Sarkar,

Gil:2017:CBS


Sabane:2017:FBC


Menzies:2017:NRS


King:2017:LLU


Palomares:2017:RRR


Tosun:2017:IEE


Malhotra:2017:ESS

Ruchika Malhotra and Megha Khanna. An empirical study for software change


[733] Ruchika Malhotra and Megha Khanna. An empirical study for software change

Kuhrmann:2017:PDL


Heikkila:2017:MRF


Alegroth:2017:LTU


Labunets:2017:MCS


Antinyan:2017:ECC


REFERENCES

Zhang:2018:SSB


Chari:2018:IIN


Munir:2018:OIU


Ali:2018:ACS


Hadar:2018:PDS


Kabinna:2018:ESL


daCosta:2018:ESI

REFERENCES


