Dr. Dietmar Pfahl

List of Publications (June 2012)

Books and Proceedings:

1. Raffo, David; Pfahl, Dietmar, Zhang, Li (eds.): International Conference on Software and Systems Process, ICSSP 2011, Honolulu, HI, USA, May 21 - 22, 2011, Proceedings. ACM, New York, NY, USA, 2011, 246 pages. ISBN: 978-1-4503-0730-7.
2. Wang, Qing; Garousi, Vahid; Madachy, Ray; Pfahl, Dietmar (eds.): Trustworthy Software Development Processes – International Conference on Software Process, ICSP 2009, Vancouver, Canada, May 16-17, 2009, Proceedings. Berlin-Heidelberg: Springer, LNCS 5543, 2009, 412 pages. ISBN: 978-3-642-01679-0.
3. Wang, Qing; Pfahl, Dietmar; Raffo, David (eds.): Making Globally Distributed Software Development a Success Story – International Conference on Software Process, ICSP 2008, Leipzig, Germany, May 10-11, 2008, Proceedings. Berlin-Heidelberg: Springer, LNCS 5007, 2008, 422 pages. ISBN: 978-3-540-79587-2.
4. Wang, Qing; Pfahl, Dietmar; Raffo, David (eds.): Software Process Dynamics and Agility – International Conference on Software Process, ICSP 2007, Minneapolis, MN, USA, May 19-20, 2007, Proceedings. Berlin-Heidelberg: Springer, LNCS 4470, 2007, 346 pages. ISBN: 978-3-540-72425-4.
5. Rombach, Dieter; Basili, Victor; Schneider, Kurt; Kitchenham, Barbara; Pfahl, Dietmar; Selby, Rick (eds.): Empirical Software Engineering Issues – Critical Assessment and Future Directions. International Workshop, Dagstuhl Castle, Germany, June 26-30, 2006, Revised Papers. Berlin-Heidelberg: Springer, LNCS 4336, 2007, 193 pages. ISBN: 978-3-540-71300-5.
6. Wang, Qing; Pfahl, Dietmar; Raffo, David; Wernick, Paul (eds.): Software Process Change. International Software Process Workshop and International Workshop on Software Process Simulation and Modeling, SPW/ProSim 2006, Shanghai, China, May 20-21, 2006, Proceedings. Berlin-Heidelberg: Springer, LNCS 3966, 2006, 356 pages. ISBN 978-3-540-34199-4.
7. Pfahl, Dietmar; Raffo, David; Rus, Ioana; Wernick, Paul (eds.): Sixths International Workshop on Software Process Simulation and Modeling, ProSim 2005. Stuttgart: Fraunhofer IRB (CD-ROM), 2005, 209 pages. ISBN 3-8167-6761-3.
8. Pfahl, Dietmar; Raffo, David; Rus, Ioana; Wernick, Paul (eds.): Fifth International Workshop on Software Process Simulation and Modeling, ProSim 2004. Stevenage: IEE Publishing, Seminar Digest, SP ICSE/W11L, 2004, 247 pages. ISBN 0-86341-426-5.
9. Pfahl, Dietmar: An Integrated Approach to Simulation-Based Learning in Support of Strategic and Project Management in Software Organisations. Stuttgart: Fraunhofer IRB, PhD Theses in Experimental Software Engineering, Vol. 8, 2002, 308 pages, ISBN 3-8167-6066-X.
10. PROFES User Manual. Stuttgart: Fraunhofer IRB, 1999, ISBN 3-8167-5535-6.

Book Chapters (refereed):

1. Jedlitschka, Andreas; Ciolkowski, Marcus; Pfahl, Dietmar: Reporting Experiments in Software Engineering. In: J. Singer, F. Shull, D. Sjøberg (eds.), Advanced Topics in Empirical Software Engineering: A Handbook, Berlin: Springer, 2008, 201-228, ISBN 978-1-84800-043-8.
2. Müller, Mark; Pfahl, Dietmar: Simulation Methods. In: J. Singer, F. Shull, D. Sjøberg (eds.), Advanced Topics in Empirical Software Engineering: A Handbook, Berlin: Springer, 2008, 117-152, ISBN 978-1-84800-043-8.
3. Pfahl, Dietmar; Ruhe, Günther, Lebsanft, Karl; Stupperich, Michael: Software Process Simulation with System Dynamics - A Tool for Learning and Decision Support. In: S. T. Acuña, M. I. Sánchez-Segura (eds.), New Trends in Software Process Modelling, Series on Software Engineering and Knowledge Engineering, Vol. 18, Singapore: World Scientific, 2006, 57-90, ISBN 981-256-619-8.
4. Pfahl, Dietmar: ProSim/RA – Software Process Simulation in Support of Risk Assessment. In: S. Biffl, A. Aurum, B. Boehm, H. Erdogmus, P. Grünbacher (eds.), Value-based Software Engineering, Berlin: Springer, 2005, 263-286, ISBN 3-540-25993-7.
5. Pfahl, Dietmar; Ruhe, Günther: System Dynamics and Goal-Oriented Measurement: A Hybrid Approach. In: S. K. Chang (ed.), Handbook of Software Engineering and Knowledge Engineering, Vol 3: Recent Advances, Singapore: World Scientific, 2005, 429-454, ISBN 981-256-273-7.

6. Waterson, Patrick; Weibelzahl, Stephan; Pfahl, Dietmar: Software Process Modeling: Socio-Technical Perspectives. In: S. T. Acuña, N. Juristo (eds.), Software Process Modeling, New York: Springer, The Kluwer International Series in Software Engineering, Vol. 10, 2005, 111-139, ISBN 0-387-24261-9.
7. Pfahl, Dietmar; Trapp, Sonja; Helic, Denis: A Methodology-Driven Software Infrastructure for Work-Based Learning. In: M. Kelleher, A. Haldane and E. Kruizinga (eds.), Researching Technology for Tomorrow's Learning: Insights from the European research community, Bilthoven: CIBIT Consultants/Educators, 2004, 85-95, ISBN 90-75709-11-0.
8. Althoff, Klaus-Dieter; Pfahl, Dietmar: Integrating Experience-Based Knowledge Management with Sustained Competence Development. In: A. Aurum, R. Jeffery, C. Wohlin and M. Handzic (eds.), Managing Software Engineering Knowledge, Berlin: Springer, 2003, 269-294, ISBN 3-540-00370-3.

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1. Kitchenham, Barbara; Sjøberg, Dag I. K.; Dybå, Tore; Pfahl, Dietmar; Brereton, O. Pearl; Budgen, David; Höst, Martin; Runeson, Per: Three Empirical Studies on the Agreement of Reviewers about the Quality of Software Engineering Experiments. In: Information and Software Technology 54 (2012) 8, 804-819.
2. Sletholt, Magnus Thorstein; Hannay, Jo Erskine; Pfahl, Dietmar; Langtangen, Hans Petter: What Do We Know about Scientific Software Development's Agile Practices? In: Computing in Science and Engineering 14 (2012) 2, 24-37.
3. Al-Emran, Ahmed; Kapur, Puneet; Pfahl, Dietmar; Ruhe, Günther: Studying the Impact of Uncertainty in Operational Release Planning – An Integrated Method and its Initial Evaluation. In: Information and Software Technology 52 (2010) 4, 446-461.
4. Garousi, Vahid; Khosrovian, Keyvan; Pfahl, Dietmar: A Customizable Pattern-based Software Process Simulation Model: Design, Calibration and Application. In: Software Process Improvement and Practice 14 (2009) 3, 165-180.
5. Al-Emran, Ahmed; Pfahl, Dietmar: Performing Operational Release Planning, Re-planning and Risk Analysis using a System Dynamics Simulation Model. In: Software Process Improvement and Practice 13 (2008) 3, 265-279.
6. Al-Emran, Ahmed; Pfahl, Dietmar; Ruhe, Günther: A Method for Re-Planning of Software Releases using Discrete-Event Simulation. In: Software Process Improvement and Practice 13 (2008) 1, 19-33.
7. Pfahl, Dietmar; Al-Emran, Ahmed; Ruhe, Günther: A System Dynamics Model for Analyzing the Stability of Software Release Plans. In: Software Process Improvement and Practice 12 (2007) 5, 475-490.
8. Rodríguez, Daniel; Sicilia, M. A.; Cuadrado, J. J.; Pfahl, Dietmar: E-Learning in Project Management Using Simulation Models: A Case Study Based on the Replication of an Experiment. In: IEEE Transactions on Education 49 (2006) 4, 451-463.
9. Münch, Jürgen; Pfahl, Dietmar; Rus, Ioana: Virtual Software Engineering Laboratories in Support of Trade-off Analyses. In: Software Quality Journal 13 (2005) 4, 407-428.
10. Pfahl, Dietmar; Laitenberger, Oliver; Ruhe, Günther; Dorsch, Jörg; Krivobokova, Tatyana: Evaluating the Learning Effectiveness of Using Simulations in Software Project Management Education: Results from a Twice Replicated Experiment. In: Information and Software Technology 46 (2004) 2, 127-147.
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12. Ruhe, Günther; Eberlein, Armin; Pfahl, Dietmar: Trade-off Analysis for Requirements Selection. In: International Journal of Software Engineering and Knowledge Engineering 13 (2003) 4, 345-366.
13. Pfahl, Dietmar; Ruhe, Günther: IMMoS - A Methodology for Integrated Measurement, Modelling, and Simulation. In: Software Process Improvement and Practice 7 (2002), 189-210.
14. Pfahl, Dietmar; Klemm, Marco; Ruhe, Günther: A CBT module with integrated simulation component for software project management education and training. In: The Journal of Systems and Software 59 (2001), 3, 283-298.
15. Briand, Lionel C.; Pfahl, Dietmar: Using Simulation for Assessing the Real Impact of Test-Coverage on Defect-Coverage. In: IEEE Transactions on Reliability 49 (2000) 1, 60-70.
16. Pfahl, Dietmar; Lebsanft, Karl: Using Simulation to Analyse the Impact of Software Requirement Volatility on Project Performance. In: Information and Software Technology 42 (2000) 14, 1001-1008.
17. Pfahl, Dietmar; Lebsanft, Karl: Knowledge Acquisition and Process Guidance for Building System Dynamics Simulation Models. An Experience Report from Software Industry. In: International Journal of Software Engineering and Knowledge Engineering 10 (2000) 4, 487-510.

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1. Mäntylä, Mika; Petersen, Kai; Pfahl, Dietmar: How Many Individuals to Use in a QA Task with Fixed Total Effort? In: Proceedings of the 2012 ACM-IEEE international Symposium on Empirical Software Engineering and Measurement (ESEM 2012), accepted.
2. Wnuk, Krzysztof; Callele, David; Pfahl, Dietmar; Karlsson, Even-Andre: How Can Open Source Software Development Help Requirements Management Gain the Potential of Open Innovation: An Exploratory Study. In: Proceedings of the 2012 ACM-IEEE international Symposium on Empirical Software Engineering and Measurement (ESEM 2012), accepted. [Acceptance rate: 25%]
3. Borg, Markus; Wnuk, Krzysztof; Pfahl, Dietmar: Industrial Comparability of Student Artifacts in Traceability Recovery Research - An Exploratory Survey. In: Proceedings of the 16th European Conference on Software Maintenance and Reengineering (CSMR 2012), March 27-30, Szeged, Hungary. IEEE (ISBN: 978-0-7695-4666-7), 2012, 181-190. [Acceptance rate: 28%]
4. Al-Emran, Ahmed; Pfahl, Dietmar; Ruhe, Guenther: Decision Support for Product Release Planning based on Robustness Analysis. In: Proceedings of the 18th IEEE International Requirements Engineering Conference (RE 2010), September 27 – October 1, Sydney, Australia. IEEE (ISBN: 978-1-4244-8022-7), 2010, 157-166. [Acceptance rate: 16 %]
5. Kitchenham, Barbara; Sjøberg, Dag I. K.; Brereton, O. Pearl; Budgen, David; Dybå, Tore; Höst, Martin; Pfahl, Dietmar; Runeson, Per: Can We Evaluate the Quality of Software Engineering Experiments? In: Proceedings of the 2010 ACM-IEEE international Symposium on Empirical Software Engineering and Measurement (ESEM 2010), September 16-17, Bolzano-Bozen, Italy. ACM (ISBN: 978-1-4503-0039-1), 2010, 1-8. [Acceptance rate: 29%]
6. Al-Emran, Ahmed; Jadallah, Anas; Paikari, Elham; Pfahl, Dietmar; Ruhe, Guenther: Application of Re-estimation in Re-planning of Software Product Releases. In: J. Münch, Y. Yang, and W. Schäfer (eds.): International Conference on Software Process, ICSP 2010 – Proceedings. Berlin-Heidelberg: Springer, 2010, 260-272 (Lecture Notes in Computer Science 6195).
7. Birkhölzer, Thomas; Madachy, Ray; Pfahl, Dietmar; Port, Dan; Beitinger, Harry; Schuster, Michael; Olkov, Alexey: SimSWE – A Library of Reusable Components for Software Process Simulation. In: J. Münch, Y. Yang, and W. Schäfer (eds.): International Conference on Software Process, ICSP 2010 – Proceedings. Berlin-Heidelberg: Springer, 2010, 321-332 (Lecture Notes in Computer Science 6195).
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9. Zhang, He; Kitchenham, Barbara; Pfahl, Dietmar: Software Process Simulation Modeling: An Extended Systematic Review. In: J. Münch, Y. Yang, and W. Schäfer (eds.): International Conference on Software Process, ICSP 2010 – Proceedings. Berlin-Heidelberg: Springer, 2010, 309-320 (Lecture Notes in Computer Science 6195).
10. Bell, David; Hall, Tracy; Hannay, Jo Erskine; Pfahl, Dietmar; Acuña, Silvia Teresita: Software engineering group work: personality, patterns and performance. In: Proceedings of the 2010 Special Interest Group on Management Information System's 48th Annual Conference on Computer Personnel Research, SIGMIS-CPR 2010, May 20-22, Vancouver, Canada. ACM (ISBN: 978-1-4503-0004-9), 2010, 43-47.
11. Zhang, He; Kitchenham, Barbara; Pfahl, Dietmar: Software Process Simulation Modeling: Facts, Trends and Directions. In: Proceedings of the 15th Asia-Pacific Software Engineering Conference (APSEC 2008), ed. by Lin et al., IEEE Computer Society (ISBN: 978-0-7695-3446-6), 2008, 59-66. [Acceptance rate: 29%]
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15. Zhang, He; Kitchenham, Barbara; Pfahl, Dietmar: Reflections on 10 Years of Software Process Simulation Modeling: A Systematic Review. In: Wang, Qing et al. (eds.): International Conference on Software Process, ICSP 2008 – Proceedings. Berlin-Heidelberg: Springer, 2008, 345-356 (Lecture Notes in Computer Science 5007). [Acceptance rate: 31%]
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17. Al-Emran, Ahmed; Khosrovian, Keyvan; Pfahl, Dietmar; Ruhe, Günther: Simulation-Based Uncertainty Analysis for Planning Parameters in Operational Product Management. Proceedings of the 10th Int. Conference on Integrated Design and Process Technology, IDPT 2007. Antalya, Turkey, June 3-8, 2007, 191-201.
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21. de Haan, Dieuwke; Waterson, Patrick; Trapp, Sonja; Pfahl, Dietmar: Integrating needs assessment within next generation e-learning systems: Lessons learnt from a case study. In: Nicholson P., Thompson Barrie J, Ruohonen M., Multisilta, J. (eds.): E-Training Practices for Professional Organizations: IFIP TC3 / WG3.3. Fifth Working Conference on eTRAIN Practices for Professional Organizations. eTrain 2003, Dordrecht: Kluwer Academic Publishers, 2005, 113-120.
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24. Jedlitschka, Andreas; Pfahl, Dietmar; Bomarius, Frank: A Framework for Experience-based Decision Support for Software Engineering Technology Selection. In: Proceedings of 16th International Conference on Software Engineering and Knowledge Engineering, SEKE 2004, Banff, Canada, 2004, 342-345.
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36. Pfahl, Dietmar; Lebsanft, Karl: Using Simulation to Analyse the Impact of Software Requirement Volatility on Project Performance. In: Maxwell, Katrina D. (ed.) et al.: Project Control. The Human Factor. Proceedings of ESCOM - SCOPE 2000: Proceedings of the combined 11th European Software Control and Metrics conference and the 3rd SCOPE conference on Software Product Quality. Maastricht: Shaker, 2000, 267-275.

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3. Hannay, Jo Erskine; Langtangen, Hans Petter; MacLeod Carolyn; Pfahl, Dietmar; Singer, Janice; Wilson, Greg: How Do Scientists Develop and Use Scientific Software? Proceedings of the 2nd International Workshop on Software Engineering for Computational Science and Engineering (SECSE 2009), Vancouver, Canada, 2009, 1-8.
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5. Jedlitschka, Andreas; Rech, Jörg; Pfahl, Dietmar: A Semantics-based Evidence Portal for Learning Software Organizations. Proceedings of the 8th International Workshop on Learning Software Organizations, LSO 2006, 15-16 September, Rio de Janeiro, Brazil, 2006, 49-57.
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6. Pfahl, Dietmar; Al-Emran, Ahmed; Ruhe, Günther: Simulation-Based Stability Analysis for Software Release Plans. In: Wang, Qing et al. (eds.): International Software Process Workshop and International Workshop on Software Process Simulation and Modeling, SPW/ProSim 2006 - Proceedings. Berlin-Heidelberg: Springer, 2006, 262-273 (Lecture Notes in Computer Science 3966). [Acceptance rate <15%]
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