

Prof. Tommi Mikkonen

GENERAL LIST OF PUBLICATIONS

April 21, 2015

A1 Journal article (refereed), original research

30. Voutilainen, J.-P., Mattila, A.-L., Systä, K., and Mikkonen, T. HTML5-based Mobile Agents for Web-of-Things. Accepted to Informatica, to appear.
29. Miranda, J., Mäkitalo, N., Garcia-Alonso, J., Berrocal, J., Mikkonen, T., Canal, C., and Murillo, J. From the Internet of Things to the Internet of People. Pages. 18-25, IEEE Internet Computing, Mar/Apr 2015, to appear.
28. Voutilainen, V.-P., Mattila, A.-L., and Mikkonen, T. Lively3D: Building a 3D Desktop Environment as a Single Page Application. Acta Cybernetica 21, 291-306, 2014.
27. Sierszecki, K., Mikkonen, T., Steffens, M., Fogdal T., and Savolainen, J. Green Software: Greening What and How Much? IEEE Software, Vol. 31, No 3, pp. 64 - 68, May/June 2014.
26. Metsä, J., Maoz, S., Katara, M. and Mikkonen, T. Using Aspects for Testing of Embedded Software: Experiences from two Industrial Case Studies. Software Quality Journal 22(2): 185-213, 2014.
25. Savolainen, J., Niu, N., Mikkonen, T. and Fogdal, T. Implementing Long-Term Product-Line Sustainability through Planned Staged Investments. IEEE Software, pp. 63-69, Nov/Dec 2013.
24. Mikkonen, T. and Taivalsaari, A. Cloud Computing and its Impact on Mobile Software Development: Two Roads Diverged. Journal of Systems and Software, Vol 86, pp. 2318-2320, 2013.
23. Mikkonen, T., Terho, M., Kuusipalo, M., Reijula, P., Salminen, A. Toward a Cloud-based Mobile Device: Scriptable Web Applications as First-Class Citizens. Service Oriented Computing and Applications, Vol 6, Issue 4, pp. 341-349, Springer, 2012. A revised version of an earlier conference paper.
22. Raatikainen, M., Mikkonen, T., Myllärniemi, V., Mäkitalo, N., Männistö, T. and Savolainen, J. Mobile Content as a Service: Blueprint for Vendor-Neutral Cloud of Mobile Devices. IEEE Software July/August 2012, pp. 28-32.
21. Mikko Raatikainen, Varvana Myllärniemi, Subhamoy Ghosh, Jari Pääkkö, Tomi Männistö, Mikko Ylikangas, Olli Korjus, Eero Uusitalo, Niko Mäkitalo, Heikki Peltola, Tommi Mikkonen, Tapani Leppänen, and Timo Aaltonen. Towards Mobile Device Cloud. Communications of Cloud Software Vol. 1, No. 1, 2011.
20. Nyman, L. and Mikkonen, T. To Fork or Not to Fork: Fork Motivations in SourceForge Projects. International Journal of Open Source Software & Processes IJOSSP Vol. 3, No. 3, pp. 1-9, 2011. Revised version of an earlier conference paper.
19. Salminen, A. and Mikkonen, T: Towards Pervasive Mashups in Embedded Devices. Comparing Procedural and Declarative Approach. International Journal of Communication Networks and Distributed Systems, Vol. 10, No 3, 2013.
18. Kilamo, T., Hammouda, I., Mikkonen, T. and Aaltonen, T: From Proprietary to Open Source – Growing an Open Source Ecosystem. Journal of Systems and Software, Vol. 85, Issue 7, pp. 1467-1478, July 2012.

17. Hammouda, I., Koskimies, K. and Mikkonen, T. Managing Concern Knowledge in Software Systems. *International Journal of Software Engineering and Knowledge Engineering*, pp. 957-987, Vol. 21, Issue 07, Nov. 2011.
16. Mikkonen, T. and Taivala, A: Reports of the Death of the Web are Greatly Exaggerated. *IEEE Computer*, pp. 30-37, May 2011.
15. Kuuskeri, J., and Mikkonen, T. Partitioning Web Applications Between the Server and the Client. *Journal of Web Engineering*. Vol. 9, No. 3, pp. 207-226, 2010.
14. Kanninen, J., Piche, R., and Mikkonen, T: Use of distributed computing in option pricing. 270-283, *International Journal of Electronic Finance*, Vol. 3, No. 3, 2009.
13. Saarinen, J., Mikkonen, T., Tarkoma, S., Heikkinen, J., and Pitkänen, R. Towards a server-centric interaction architecture for wireless applications, pp. 103-119, *KSII Transactions on Internet and Information Systems*, Vol. 2, No. 2, April 2008.
12. Manner, J., Leggio, S., Mikkonen, T., Saarinen, J., Vuorela, P. and Ylä-Jääski, A. Seamless service interworking of ad-hoc networks and the Internet. *Computer Communications* 31, pp. 2293-2307, 2008.
11. Aaltonen, T. and Mikkonen, T. Managing software evolution with a formalized abstraction hierarchy. *International Journal on Computer Applications in Technology*, 120-130, Vol 31, No. 1/2, 2008. Revised version of an earlier workshop/conference paper.
10. Mikkonen, T. On the Dominance of Decompositions in Models and their Aspect-Oriented Implementations. 19-28, *Electronic Notes in Theoretical Computer Science* 163, 2007.
9. Kosola, M., Jokinen, J. and Mikkonen, T. Linux clustering file systems – Comparing read and write performance. *Enterprise Open Source Magazine*, Nov. 8, 2006. SYS-CON Media.
8. Aaltonen, T., Katara, M., Kurki-Suonio, R. and Mikkonen, T. On Horizontal Specification Architectures and their Aspect-Oriented Implementations. *Transactions on Aspect-Oriented Software Development II* (Eds. A. Rashid and M. Aksit), 1-29, Springer, 2006.
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6. Selonen, P., Siikarla, M., Koskimies, K and Mikkonen, T. Towards the Unification of Patterns and Profiles in UML. 235-253, *Nordic Journal of Computing*, Vol. 11 No. 3, Fall 2004. Revised version of an earlier workshop/conference paper.
5. Korhonen, M. and Mikkonen, T. Assessing Systems Adaptability to a Software Product Line. *Journal of Systems Architecture*, Vol. 50, No. 7, 383-392, July 2004. Revised version of an earlier workshop/conference paper.
4. Ala-Mutka, K. and Mikkonen, T. Experiences with Distributed Open Source Courses. *Informatica*, Volume 27, Number 3, 243-254, October 2003. Revised version of an earlier workshop/conference paper.
3. Jokinen, J., Järvinen, H.-M. and Mikkonen, T. Incremental Introduction of Behaviors with Static Software Architecture. 215-222, *Computer Standards and Interfaces*, Vol 25, Issue 3, Elsevier Science B.V., 2003. Revised version of an earlier workshop/conference paper.
2. Aaltonen, T., Helin, J., Katara, M., Kellomäki, P., and Mikkonen, T. Coordinating Objects and Aspects. *Electronic Notes in Theoretical Computer Science* 68(3), Elsevier, March 2003. Revised version of an earlier workshop/conference paper.
1. Mikkonen, T. and Pruuden, P. Flexibility as a Design Driver. *IEEE Computer*, 52-56, November 2001.

A3 Book section, chapters in research books

6. Kilamo, T., Hammouda, I., Mikkonen, T. and Aaltonen, T. Open Source Ecosystems: A Tale of Two Cases. In S. Jansen, M. Cusumano, and S. Brinkkemper (Eds.), *Software Ecosystems: Analysing and Managing Business Networks in the Software Industry*, pp. 276-306, Cheltenham, UK and Northampton, MA, USA: Edward Elgar Publishing, 2013. Invited chapter based on an earlier journal article.
5. Fitzek, F., Torp, T. and Mikkonen, T. Introduction and Motivation. In Fitzek, F., Mikkonen, T. and Torp, T. (Editors). *Qt for Symbian*, pp. 1-11, Wiley, 2010.
4. Mikkonen, T., Torp, T. and Fitzek, F. Qt Mobility APIs. In Fitzek, F., Mikkonen, T. and Torp, T. (Editors). *Qt for Symbian*, pp. 65-76, Wiley, 2010.
3. Helin, J., Kellomäki, P. and Mikkonen, T. Patterns of Collective Behavior in Ocsid. *Design Pattern Formalization Techniques* (Ed. Toufik Taibi), pp. 73-93, IGI Publishing, 2007.
2. Järvensivu, J., Helander, N., and Mikkonen, T. Dependencies, Networks, and Priorities in an Open Source Project. *Handbook of Research on Open Source Software: Technological, Economic and Social Perspectives* (Eds. Kirk St.Amant and Brian Still), pp. 116-125, IGI Publishing, 2007.
1. Kellomäki, P., Mikkonen, T., Modeling Distributed State as an Abstract Object. *Distributed and Parallel Embedded Systems*, (Ed. F. J. Rammig), pp. 223-230, Kluwer Academic Publishers, 1999.

A4 Conference proceedings

129. Mikkonen, T., Systä, K. and Pautasso, C. Towards Liquid Web Applications. Accepted to ICWE'15, to appear.
128. Mattila, A.-L., Lehtonen, T., Systä, K., Terho, H. and Mikkonen, T. Mashing Up Software Management, Development, and Usage Data. Accepted to RCoSE'15, to appear.
127. Leppänen, M., Kilamo, T., and Mikkonen, T. Towards Post-Agile Development Practices Through Productized Development Infrastructure. Accepted to RCoSE'15, to appear.
126. Koski, A and Mikkonen, T. Rolling Out a Mission Critical System in an Agilish Way: Reflections on Building a Large-Scale Dependable Information System for Public Sector. Accepted to RCoSE'15, to appear.
125. Voutilainen, J. and Mikkonen, T. On the Design of a Responsive User Interface for a Multi-Device Web Service. Accepted to MobileSoft'15, to appear.
124. Martinez, J., Roco, A., Miranda, J., Mäkitalo, N., Garcia-Alonso, J., Berrocal, J., Mikkonen, T., Canal, C. and Murillo, J. Smartphones as Personal Profile Providers: Enhancing Mobile App Architectures. Accepted to MobileSoft'15, to appear.
123. Peuhkurinen, A. and Mikkonen, T. Three Dimensional Volume Managers Replacing Window Managers in Augmented Reality Application Paradigm. Accepted to MobileSoft'15, to appear.
122. Palviainen, J. Kilamo, T., Koskinen, J., Lautamäki, J., Mikkonen, T. and Nieminen, A. Design Framework Enhancing Developer Experience in Collaborative Coding Environment. Accepted to ACM SAC'15, to appear.
121. Mikkonen, T. and Systä, K. Maximizing Product Value: Continuous Maintenance. Accepted to PROFES'14, to appear.

120. Aaltonen, T., Mikkonen, T., Peltola, H. and Salminen, A. From Mashup Applications to Open Data Ecosystems. Accepted to OpenSym'14, to appear.
119. Mäkitalo, N. and Mikkonen, T. At the Edge of the Cloud: Improving the Coordination of Proactive Social Devices. Accepted to ISD'14, to appear.
118. Mikkonen, T., Salminen, A. and Taivalsaari, A. Enabling Global, Dynamic Web-Based Software Reuse: Mashware Revisited. Accepted to SEAA'14, to appear.
117. Kuusinen, K. and Mikkonen, T. On Designing UX for Mobile Enterprise Apps. Accepted to SEAA'14, to appear.
116. Vogel, B., Kurti, A., Mikkonen, T. and Milrad, M. Towards an Open Architecture Model for Web and Mobile Software: Characteristics and Validity Properties. Accepted to COMPSAC'14, to appear.
115. Taivalsaari, A., Mikkonen, T. and Systä, K. Liquid Software Manifesto: The Era of Multiple Device Ownership and Its Implications for Software Architecture. Accepted to COMPSAC'14, to appear.
114. Järvinen, J., Huomo, T., Mikkonen, T. and Tyrväinen, P. From Agile Software Development to Mercury Business. In Proceedings of International Conference on Software Business 2014 (editors C. Lassenius and K. Smolander), pp. 58–71, LNBIP 182, Springer 2014.
113. Sierszecki, K., Steffens, M., Fogdal, T., Savolainen, J. and Mikkonen, T. Towards Green Power Electronics: Software Controllers and Domain Knowledge. Accepted to ICSE Green Software Workshop, to appear.
112. Vogel, B., Kurti, A., Mikkonen, T. and Milrad, M. From Architectural Requirements Towards an Open Architecture for Web and Mobile Societal Applications. Accepted to ICSE open data workshop, to appear.
111. Mattila, A-L, Systä, K., Voutilainen, J-P, and Mikkonen, T. Cloud Space - Web-based Smart Space with Management UI. Accepted to WebIST 2014, to appear
110. Kilamo, T., Nieminen, A., Lautamäki, J., Aho, T., Koskinen, J., Palviainen, J., and Mikkonen, T. Knowledge Transfer in Collaborative Teams: Experiences from a Two-Week Code Camp. Accepted to ICSE Software Engineering Education and Training track 2014, to appear.
109. Kuusinen, K., Mikkonen, T. Designing User Experience for Mobile Apps: Long-Term Product Owner Perspective. Accepted to APSEC'13, to appear.
108. Eloranta, V.-P., Mikkonen, T. Koskimies, K., and Vuorinen J. Scrum Anti-Patterns: An Empirical Study. Accepted to APSEC'13, to appear. Best paper award.
107. Lohman, A., Luoto, A., Hammouda, I, and Mikkonen, T. Open Source Legality Compliance of Software Architecture: A Licensing Profile Approach. Accepted to ICSEA'13, to appear.
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103. Voutilainen, J.-P. and Mikkonen, T. The Browser as a Host Environment for Visually Rich Applications. SPLST'13, to appear.
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101. Taivalsaari, A., Systä, K. and Mikkonen, T: Cloud Browser: The Web Browser Moves to the Cloud. In Proceedings of 9th International Conference on Grid and Pervasive Computing 2013 (Editors J.J. Park et al.), 224-233, LNCS 7861, Springer, 2013.
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99. Mattila A.-L., Mikkonen, T. Designing a 3D Widget Library for WebGL Enabled Browsers. In Proceedings of the 28th Annual ACM Symposium on Applied Computing, 757-760, ACM, 2013.
98. Lokhman, A.; Mikkonen, T., Hammouda, I., Kazman, R. and Chen, H.-M. A Core-Periphery-Legality Architectural Style for Open Source System Development. In Proceedings of the 46th Hawaii International Conference on System Sciences, 3148-3157, IEEE, 2013.
97. Mäkitalo, N., Pääkkö, J., Raatikainen, M., Myllärniemi, V., Aaltonen, T., Leppänen, T., Männistö, T. and Mikkonen, T. Social Devices: Collaborative Co-located Interactions in a Mobile Cloud. In Proceedings of the 11th International Conference on Mobile and Ubiquitous Multimedia, ACM, 2012
96. Mikkonen, T. and Nieminen, A. On the Role of Revision Control in a Collaborative Development Environment. In Proceedings of NordiCloud'12, WICSA/ECSA 2012 Proceedings Companion Volume, 14-20, ACM, 2012.
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93. Vogel, B., Kurti, A., Milrad, M., Mikkonen, T. Architectural Concepts: Evolution of a Software System Across Design and Implementation Stages in Dynamically Changing Environments. Proceedings of the IEEE 36th Annual International Computer Software and Applications Conference Workshops (COMPSAC 2012 Workshops), Izmir, Turkey, July 16-20, 2012. IEEE Computer Society Press, 2012
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90. Penttinen, M. and Mikkonen, T. Subcontracting for Scrum Teams: Experiences and Guidelines from a Large Development Organization. In Proceedings of International Conference on Global Software Engineering 2012, 195-199, Porto Alegre, Rio Grande do Sul, Brazil. Aug 27-30, IEEE Computer Society, 2012.

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86. Mikkonen, T., Taivalsaari, A. and Terho, M. Cloud-Based Mobile Computing: An Opportunity for the Next Billion. *IST Africa 2012*.
85. Lautamäki, J., Nieminen, A., Koskinen, J., Aho, T., Mikkonen, T. and Englund, M. CoRED - Browser-based collaborative real-time editor for Java web applications. In *Proceedings of the CAM 2012 Conference on Computer Supported Cooperative Work*, 1307-1316, ACM, 2012.
84. Mikkonen, T. and Salminen, A. Towards a reference architecture for mashups. In *Proceedings of OTM2011 Workshops* (Eds. R. Meersman, T. Dillon, and P. Herrero), pp. 647-656, LNCS 7046, Springer, 2011.
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82. Nummenmaa, T., Tiensuu, A., Berki, E., Mikkonen, T., Kuittinen, J., and Kultima, A. Supporting Agile Development by Facilitating Natural User Interaction with Executable Formal Specifications, *ACM SIGSOFT Software Engineering Notes*, Vol. 36, Issue 4, pp. 1-10, July, 2011.
81. Peuhkurinen, A., Mikkonen, T. and Terho, M. Using RDF Data as Basis for 3D Window Management in Mobile Devices, In *Proceedings of MobiWis 2011*, *Procedia CS5*: 645-652, 2011.
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79. Lautamäki, J. and Mikkonen, T. Cross-domain embedding of Vaadin applications. In *Proceedings of ComposableWeb'11*, Vienna, Austria, June 2011.
78. Nyman, L. and Mikkonen, T. To Fork or Not to Fork: Fork Motivations in SourceForge Projects. In *Proceedings of the 7th International Conference on Open Source Systems 2011*, 259-268, Springer, 2011. Best paper award.
77. Taivalsaari, A. and Mikkonen, T. The Web as an Application Platform: The saga continues. In *Proceedings of 2011 Euromicro Conference on Software Engineering and Applications*, IEEE Computer Society, 2011.
76. Salo, J., Aaltonen, T., and Mikkonen, T. MashReduce - Server-Side Mashups for Mobile Devices. In *Proceedings of Advances in Grid and Pervasive Computing 2011* (editors J. Riekkilä, M. Ylianttila and M. Guo), LNCS 6646, pp. 168-177, Springer, 2011.
75. Salminen, A., Kallio, J. and Mikkonen, T. Towards Mobile Multimedia Mashup Ecosystem. In *Proceedings of IEEE 2011 International Conference on Communications Workshops*, pp. 1-5, Kyoto, Japan, June 2011.
74. Anttonen, M., Salminen, A., Mikkonen, and Taivalsaari, A. Transforming the web into a real application platform: New technologies, emerging trends, and missing pieces. In *Proceedings of the 26th ACM Symposium on Applied Computing (SAC'2011, TaiChung, Taiwan, March 21-25, 2011)*, ACM Press, *Proceedings vol 1*, pp.800-807.

73. Taivalsaari, A., Mikkonen, T., Anttonen, M., Salminen, A. Mikkonen, T., Taivalsaari, A. The death of binary software: End user software moves to the web. In Proceedings of the 9th International Conference on Creating, Connecting and Collaborating through Computing (C5'2011, Kyoto, Japan, January 18-20, 2011), IEEE Computer Society, pp.17-23.
72. Collin, N. and Mikkonen, T. Adapting test-driven development and continuous integration in a small software company. In Proceedings of the 17th Asia Pacific Software Engineering Conference, Industrial Track, 2010.
71. Mikkonen, T. and Taivalsaari, A. The Mashware Challenge: Bridging the Gap Between Web Development and Software Engineering. In Proceedings of the 2010 Workshop on Future of Software Engineering Research, 245-249, ACM Press, 2010.
70. Holmstedt, L. Mikkonen, T: and Terho, M. Tool support for constructing mobile mashups. In Proceedings of MobiCase 2010, Santa Clara, CA, USA, Oct. 25-27, 2010.
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