

7 REFERENCES

- [1] “The evolution of the mobile phone.” [Online]. Available: <http://www.telegraph.co.uk/technology/mobile-phones/11339603/The-evolution-of-the-mobile-phone-in-pictures.html>. [Accessed: 13-Jan-2017].
- [2] L. Corral, A. Sillitti, G. Succi, A. Garibbo, and P. Ramella, “Evolution of Mobile Software Development from Platform-Specific to Web-Based Multiplatform Paradigm,” *Rev. Tecnol. | J. Technol.*, vol. 12, no. 4, pp. 181–183, 2013.
- [3] S. Perez, “For The Young, Smartphones No Longer A Luxury Item | TechCrunch,” 2012. [Online]. Available: <https://techcrunch.com/2012/02/20/for-the-young-smartphones-no-longer-a-luxury-item/>. [Accessed: 13-Jan-2017].
- [4] C. Shealy, “A Collection of Mobile Application Development Statistics: Growth, Usage, Revenue and Adoption - Top Mobile Application Development Platforms, Vendors and Developers,” 2016. [Online]. Available: <http://solutionsreview.com/mobile-application-development/a-collection-of-mobile-application-development-statistics-growth-usage-revenue-and-adoption/>. [Accessed: 13-Jan-2017].
- [5] C. J. Budnik, R. Subramanyan, and M. Vieira, “Industrial requirements to benefit from test automation tools for GUI testing,” *Inform. 2007 - Inform. Trifft Logistik, Beitrage der 37. Jahrestagung der Gesellschaft fur Inform. e.V.*, vol. 2, pp. 410–414, 2007.
- [6] P. Yadav, U. K. Yadav, and S. Verma, “Software Testing : Approach to Identify Software Bugs,” no. 2, pp. 26–30, 2012.
- [7] S. McConnell, *Code complete: [a practical handbook of software construction]*, 2nd ed. Berkeley, CA, United States: Microsoft Press,U.S., 2004.
- [8] “List of tablet PC dimensions and case sizes,” [Online]. Available: https://en.wikipedia.org/wiki/List_of_tablet_PC_dimensions_and_case_sizes. [Accessed: 13-Jan-2017].

- [9] L. J. Osterweil, "Software processes are software too, revisited: an invited talk on the most influential paper of ICSE 9," in Proceedings of the 19th IEEE International Conference on Software Engineering, pp. 540–548, Boston, Mass, USA, May 1997.
- [10] IEEE, "IEEE Standard 610.12-1990, IEEE Standard Glossary of Software Engineering Terminology," 1990.
- [11] "Types of Software testing and definitions of testing terms," 2016. [Online]. Available: <http://www.softwaretestinghelp.com/types-of-software-testing/>. [Accessed: 13-Jan-2017].
- [12] L. Williams, "Testing Overview and Black-Box Testing Techniques," 2006. [Online]. Available: <http://agile.csc.ncsu.edu/SEMaterials/BlackBox.pdf>. [Accessed: 13-Jan-2017].
- [13] M. J. Harrold, "Testing: a roadmap," in Proceedings of the Conference on The Future of Software Engineering, ser. ICSE '00. New York, NY, USA: ACM, 2000, pp. 61–72.
- [14] E. Dustin, J. Rashka, and J. Paul, Automated software testing: introduction, management, and performance. Boston: Addison-Wesley, 1999.
- [15] L. Feng and S. Zhuang, "Action-driven automation test framework for Graphical User Interface (GUI) software testing," in AUTOTESTCON (Proceedings), 2007, pp. 22–27.
- [16] H. Jung, S. Lee, and D. Baik, "An Image Comparing-based GUI Software Testing Automation System," Elrond.Informatik.Tu-Freiberg.De, 2012.
- [17] L. Lu and Y. Huang, "Automated GUI test case generation," in Proceedings - 2012 International Conference on Computer Science and Service System, CSSS 2012, 2012, pp. 582–585.
- [18] G. Liebel, E. Alegroth, and R. Feldt, "State-of-practice in GUI-based system and acceptance testing: An industrial multiple-case study," in Proceedings - 39th Euromicro Conference Series on Software Engineering and Advanced Applications, SEAA 2013, 2013, pp. 17–24.
- [19] A. M. Memon, "GUI testing: Pitfalls and process," Computer, vol. 35, no. 8, pp. 87–88, 2002.

- [20] O. H. Kwon and S. M. Hwang, "Mobile GUI testing tool based on image flow," Proc. - 7th IEEE/ACIS Int. Conf. Comput. Inf. Sci. IEEE/ACIS ICIS 2008, conjunction with 2nd IEEE/ACIS Int. Work. e-Activity, IEEE/ACIS IWEA 2008, pp. 508–512, 2008.
- [21] E. Borjesson and R. Feldt, "Automated System Testing Using Visual GUI Testing Tools: A Comparative Study in Industry," Software Testing, Verification and Validation (ICST), 2012 IEEE Fifth International Conference on. pp. 350–359, 2012.
- [22] A. M. Memon, I. Banerjee, B. Nguyen, and B. Robbins. The First Decade of GUI Ripping: Extensions, Applications, and Broader Impacts. In Proceedings of the 20th Working Conference on Reverse Engineering (WCRE), October 14-17, 2013, Koblenz, Germany.
- [23] Applitools, "Visual test automation for web Apps," Applitools -, 2015. [Online]. Available: <https://applitools.com/web-app-testing/>. Accessed: Aug. 16, 2016.
- [24] N. zeldin Administrator, "Overview," 2016. [Online]. Available: <https://applitools.atlassian.net/wiki/display/Java/SDK+Guide>. Accessed: Aug. 16, 2016.
- [25] Applitools - Automated Visual Testing, "How to Configure match level [Advanced visual test automation Techniques]," in *YouTube*, YouTube, 2016. [Online]. Available: <https://www.youtube.com/watch?v=DzO-uzOLjUY&list=PLkqF-NUszJY7LZAAdiAxf2zk1t1DBwP630&index=5>. Accessed: Aug. 16, 2016.
- [26] "Chapter 6 Learning Image Patch Similarity." [Online]. Available: <http://ttic.uchicago.edu/~gregory/thesis/thesisChapter6.pdf>. [Accessed: 13-Jan-2017].
- [27] F. Ren, J. Huang, R. Jiang, and R. Klette, "General traffic sign recognition by feature matching," 2009 24th International Conference Image and Vision Computing New Zealand, 2009.
- [28] R. Brunelli, "Template Matching Techniques in Computer Vision," 2009.
- [29] D. Lisin, M. Mattar, M. Blaschko, E. Learned-Miller, and M. Benfield, "Combining Local and Global Image Features for Object Class

- Recognition,” *2005 IEEE Computer Society Conference on Computer Vision and Pattern Recognition (CVPR05) – Workshop*.
- [30] J. Wu, Z. Cui, V. S. Sheng, P. Zhao, D. Su, and S. Gong, “A Comparative Study of SIFT and its Variants,” *Measurement Science Review*, vol. 13, no. 3, pp. 122–131, 2013.
- [31] D. G. Lowe, “Distinctive Image Features from Scale-Invariant Keypoints,” *International Journal of Computer Vision*, vol. 60, no. 2, pp. 91–110, 2004.
- [32] Y. Ke and R. Sukthankar, “PCA-SIFT: a more distinctive representation for local image descriptors,” *Proceedings of the 2004 IEEE Computer Society Conference on Computer Vision and Pattern Recognition, 2004. CVPR 2004*.
- [33] E. Mortensen, H. Deng, and L. Shapiro, “A SIFT Descriptor with Global Context,” *2005 IEEE Computer Society Conference on Computer Vision and Pattern Recognition (CVPR05)*.
- [34] A. Abdel-Hakim and A. Farag, “CSIFT: A SIFT Descriptor with Color Invariant Characteristics,” *2006 IEEE Computer Society Conference on Computer Vision and Pattern Recognition - Volume 2 (CVPR06)*.
- [35] J.-M. Geusebroek, R. V. D. Boomgaard, A. Smeulders, and H. Geerts, “Color invariance,” *IEEE Transactions on Pattern Analysis and Machine Intelligence*, vol. 23, no. 12, pp. 1338–1350, 2001
- [36] J.-J. Seo and K.-R. Yoona, “Modified Speeded Up Robust Features(SURF) for Performance Enhancement of Mobile Visual Search System,” *Journal of Broadcast Engineering*, vol. 17, no. 2, pp. 388–399, 2012.
- [37] J.-M. Morel and G. Yu, “ASIFT: A New Framework for Fully Affine Invariant Image Comparison,” *SIAM Journal on Imaging Sciences*, vol. 2, no. 2, pp. 438–469, 2009
- [38] “Material Design for Android | Android Developers,” *Android Developers*. [Online]. Available: <https://developer.android.com/guide/topics/ui/look-and-feel>. [Accessed: 27-Mar-2019].
- [39] Apple Inc, “Human Interface Guidelines,” *Human Interface Guidelines - Design - Apple Developer*. [Online]. Available: <https://developer.apple.com/design/human-interface-guidelines/>. [Accessed: 27-Mar-2019].

- [40] B. Epshtein, E. Ofek, and Y. Wexler, “Detecting text in natural scenes with stroke width transform,” *2010 IEEE Computer Society Conference on Computer Vision and Pattern Recognition*, 2010.