

## REFERENCES

- Aamazon S3 (March 14, 2016). Retrieved from ([http:// www.amazon.com](http://www.amazon.com)).
- Abolfazli, S., Sanaei, Z., & Gani, A. (2012). Mobile cloud computing: A review on smartphone augmentation approaches. *The 1st International Conference on Computing, Information Systems, and Communications*, Singapore.
- Abolfazli, S., Sanaei, Z., Alizadeh, M., Gani, A., & Xia, F. (2014). An experimental analysis on cloud-based mobile augmentation in mobile cloud computing. *IEEE Transactions on Consumer Electronics*, 60(1), pp. 146-154.
- Adrees, M. S., Omer, M. K. A., & Sheta, O. E. (2016). Cloud Computing architecture for higher education in the third world countries (republic of the sudan as model).
- Ahmed, E., Gani, A., Sookhak, M., Ab Hamid, S. H., & Xia, F. (2015). Application optimization in mobile cloud computing: Motivation, taxonomies, and open challenges. *Journal of Network and Computer Applications*, 52, pp. 52-68.
- Anand, A., Manikopoulos, C., Jones, Q., & Borcea, C. (2007). A quantitative analysis of power consumption for location-aware applications on smart phones. *The 2007 IEEE International Symposium on Industrial Electronics*,Vigo Spain.
- Ardito, L., Procaccianti, G., Torchiano, M., & Migliore, G. (2013). Profiling power consumption on mobile devices. *The 3rd International Conference on Smart Grids, Green Communications and IT Energy-aware Technologies*, Lisbon Portugal.
- Balan, R., Flinn, J., Satyanarayanan, M., Sinnamohideen, S., & Yang, H.-I. (2002). The case for cyber foraging. *The 10th Workshop on ACM Sigops European workshop*, pp. 87-92, France.
- Balan, R. K. (2004). Powerful change part 2: reducing the power demands of mobile devices. *IEEE Pervasive Computing*, 3(2). pp. 71-73.
- Balan, R. K., Gergle, D., Satyanarayanan, M., & Herbsleb, J. (June 11-14, 2007). Simplifying cyber foraging for mobile devices. *The 5th International Conference on Mobile Systems, Applications and Services*, pp. 272-182, New York USA.
- Balan, R. K., Satyanarayanan, M., Park, S. Y., & Okoshi, T. (2003). Tactics-based remote execution for mobile computing. *The 1st international Conference on Mobile Systems, Applications and Services*, pp. 271-286, San Francisco, CA, USA.

- Balasubramanian, N., Balasubramanian, A., & Venkataramani, A. (2009). Energy consumption in mobile phones: a measurement study and implications for network applications. *The 9th ACM Sigcom Conference on Internet Measurement Conference*, pp. 280-293, Chicago USA.
- Begum, Y. M., & Mohamed, M. M. (April 12-14, 2010). A DHT-based process migration policy for mobile clusters. *The 7th International Conference on Information Technology: New Generations (ITNG)*, pp.12-14 DOI: 10.1109/ITNG.2010.157, Las Vegas, Nevada, USA.
- Bertozzi, D., Raghunathan, A., Benini, L., & Ravi, S. (2003). Transport protocol optimization for energy efficient wireless embedded systems. *The Conference on Design, Automation and Test in Europe*, Muenchen, Germany.
- Bheda, H. A., & Lakhani, J. (2013). Application Processing Approach for Smart Mobile Devices in Mobile Cloud Computing. *International Journal of Advanced Research in Computer Science and Software Engineering*, 3(8).
- Buyya, R., Yeo, C. S., Venugopal, S., Broberg, J., & Brandic, I. (2009). Cloud computing and emerging IT platforms: Vision, hype, and reality for delivering computing as the 5th utility. *Future Generation Computer Systems*, 25(6), pp. 599-616.
- Carroll, A., & Heiser, G. (2010). An Analysis of Power Consumption in a Smartphone. *The Annual Technical Conference on Usenix 2010*, pp. 21-21, Boston, USA.
- Chen, G., Kang, B.-T., Kandemir, M., Vijaykrishnan, N., Irwin, M. J., & Chandramouli, R. (2004). Studying energy trade offs in offloading computation/compilation in java-enabled mobile devices. *IEEE Transactions on Parallel and Distributed Systems*, 15(9), pp. 795-809.
- Chu, H.-h., Song, H., Wong, C., Kurakake, S., & Katagiri, M. (2004). Roam, a seamless application framework. *Journal of Systems and Software*, 69(3), pp. 209-226.
- Chun, B.-G., Ihm, S., Maniatis, P., & Naik, M. (2010) Clonecloud: boosting mobile device applications through cloud clone execution. arXiv preprint arXiv:1009.3088. v(2).
- Chun, B.-G., Ihm, S., Maniatis, P., Naik, M., & Patti, A. (2011). Clonecloud: elastic execution between mobile device and cloud. *The 6th International Conference on Computer Systems*, pp. 301-314, Universitätsaula Salzburg, Austria.
- Chun, B.-G., & Maniatis, P. (2009). Augmented Smartphone Applications through Clone Cloud Execution. *The 12th conference on Hot Topics in Operating Systems*. pp. 8-8, Monte Verità, Switzerland.
- Chun, B.-G., & Maniatis, P. (15-18 June 2010). Dynamically partitioning applications between weak devices and clouds. *The 1st ACM Workshop on Mobile Cloud Computing & Services: Social Networks and Beyond*, San Francisco, USA.

- Chun, W. (June 2016). What is google app engine? Euro Python 2011. Retrieved from (<https://ep2013.europython.eu/conference/talks/google-app-engine-best-practices-latest-features>).
- Cisco Visual Networking Index: Global Mobile Data Traffic Forecast Update 2014–2019 White Paper (June 2016). Retrieved from ([http://www.cisco.com/c/en/us/solutions/collateral/service-provider/visual-networking-index-vni/white\\_paper\\_c11-520862.html](http://www.cisco.com/c/en/us/solutions/collateral/service-provider/visual-networking-index-vni/white_paper_c11-520862.html)).
- Claybrook, B. (July 2016). Mobile cloud apps vs. native apps: The developer’s Perspectives. Retrived from <http://searchcloudapplications.techtarget.com/feature/Mobile-cloud-apps-vs-native-apps-The-developers-perspective>).
- Cuervo, E., Balasubramanian, A., Cho, D.-k., Wolman, A., Saroiu, S., Chandra, R., & Bahl, P. (2010). MAUI: making smartphones last longer with code offload. *The 8th International Conference on Mobile Systems, Applications, and Services*, pp. 49-62, Kraków, Poland.
- Cui, Y., Ma, X., Wang, H., Stojmenovic, I., & Liu, J. (2013). A survey of energy efficient wireless transmission and modelling in mobile cloud computing. *Mobile Networks and Applications*, 18(1), pp. 148-155.
- De Giorgio, T., Ripa, G., & Zuccalà, M. (2010). An approach to enable replacement of SOAP services and REST services in lightweight processes. *Current Trends in Web Engineering*, pp. 338-346.
- De Lara, E., Wallach, D. S., & Zwaenepoel, W. (2001). Puppeteer: Component-based Adaptation for Mobile Computing. *The 3rd Conference on Usenix Symposium on Internet Technologies and Systems*, vol-3, pp. 14-14, San Francisco, California, USA.
- Dinh, H. T., Lee, C., Niyato, D., & Wang, P. (2013). A survey of mobile cloud computing: architecture, applications, and approaches. *Wireless Communications and Mobile Computing*, 13(18), pp. 1587-1611.
- Dou, A., Kalogeraki, V., Gunopulos, D., Mielikainen, T., & Tuulos, V. H. (2010). Misco: a mapreduce framework for mobile systems. *The 3rd International Conference on Pervasive Technologies Related to Assistive Environments*, Samos, Greece.
- Ewens, W. J., & Grant, G. R. (2001). Computationally intensive methods. *In Statistical Methods in Bioinformatics*, pp. 349-363, New York USA.
- Fernando, N., Loke, S. W., & Rahayu, W. (2013). Mobile cloud computing: A survey. *Future Generation Computer Systems*, 29(1), 84-106.

- Ferreira, Denzil, Anind Dey, and Vassilis Kostakos (2011). "Understanding human-smartphone concerns: a study of battery life." *Pervasive Computing*, 19-33.
- Fielding, R. T. (2000). Architectural styles and the design of network-based software architectures. *Doctoral Dissertation Architectural Styles and the Design of Network-based Software Architectures University of California, Irvine*.
- Flinn, J., Park, S., & Satyanarayanan, M. (2002). Balancing performance, energy, and quality in pervasive computing. *The International Conference on Distributed Computing Systems*, pp. 217, 2002, Vienna, Austria.
- Flinn, J., & Satyanarayanan, M. (1999). Energy-aware adaptation for mobile applications. *The 17th ACM Symposium on Operating Systems Principles*. Vol. 33(5), pp. 48-63, Charleston, South Carolina, USA.
- Flores, H., Hui, P., Tarkoma, S., Li, Y., Srirama, S., & Buyya, R. (2015). Mobile code offloading: from concept to practice and beyond. *IEEE Communications Magazine*, 53(3), pp. 80-88.
- Frattasi, S., Fathi, H., Fitzek, F. H., Prasad, R., & Katz, M. D. (2006). Defining 4G technology from the users perspective. *IEEE Network*, 20(1), pp. 35-41.
- Garlan, D., Siewiorek, D. P., Smailagic, A., & Steenkiste, P. (2002). Project aura: Toward distraction-free pervasive computing. *IEEE Pervasive Computing*, 1(2), pp. 22-31.
- Giurgiu, I., Riva, O., Juric, D., Krivulev, I., & Alonso, G. (2009). Calling the cloud: enabling mobile phones as interfaces to cloud applications. *The 10 International Conference on Distributed Systems Platforms and Open Distributed Processing*, pp. 83-102, Urbana, IL USA.
- Goraczko, M., Liu, J., Lymberopoulos, D., Matic, S., Priyantha, B., & Zhao, F. (2008). Energy-optimal software partitioning in heterogeneous multiprocessor embedded systems. *The 45th Annual Design Automation Conference*. pp. 191-196, Anaheim, CA, USA.
- Goyal, S., & Carter, J. (2004). A lightweight secure cyber foraging infrastructure for resource-constrained devices. *The 6th IEEE Workshop on the Mobile Computing Systems and Applications*. pp. 186-195, Cumbria UK.
- Griera Jorba, M. (2013). Improving the reliability of an offloading engine for Android mobile devices and testing its performance with interactive applications, *Master Thesis*, Freie Universität Berlin.
- Gu, X., Nahrstedt, K., Messer, A., Greenberg, I., & Milojevic, D. (2004). Adaptive offloading for pervasive computing. *IEEE Pervasive Computing*, 3(3), pp. 66-73.

- Guillaume. (2016). How heat and loading affect battery Life. Retrieved from: <http://batteryuniversity.com/learn/article/how-heat-and-harsh-reduces-battery-life> . Accessed Date: July 2016).
- Herrmann, R., Zappi, P., & Rosing, T. S. (2012). Context aware power management of mobile systems for sensing applications. *The 11th ACM/IEEE International Conference on Information Processing in Sensor Networks*, April 16–20, 2012, Beijing, China.
- Huang, D., Zhang, X., Kang, M., & Luo, J. (2010). MobiCloud: building secure cloud framework for mobile computing and communication. *The 5th IEEE International Symposium on Service Oriented System Engineering*, pp. 27-34, Nanjing, China.
- Huerta-Canepa, G., & Lee, D. (2008). An adaptable application offloading scheme based on application behavior. *The 22nd International Conference on Advanced Information Networking and Applications*, GinoWan, Okinawa, Japan.
- Huerta-Canepa, G., & Lee, D. (2010). A virtual cloud computing provider for mobile devices. *The 1st ACM Workshop on Mobile Cloud Computing & Services: Social Networks and Beyond*, San Fransisco USA.
- Hung, S.-H., Shih, C.-S., Shieh, J.-P., Lee, C.-P., & Huang, Y.-H. (2012). executing mobile applications on the cloud: Framework and issues. *Computers & Mathematics with Applications*, 63(2), pp. 573-587.
- Izaki, M. (2002). U.S. Patent No. 6,405,062. Washington, DC: U.S. Patent and Trademark Office.
- Kemp, R., Palmer, N., Kielmann, T., & Bal, H. (2010). Cuckoo: a computation offloading framework for smartphones. *The International Conference on Mobile Computing, Applications, and Services.*, vol-76. pp. 59-69, CA USA.
- Kim, K.-H., Min, A. W., Gupta, D., Mohapatra, P., & Singh, J. P. (2011). Improving energy efficiency of Wi-Fi sensing on smartphones. *The IEEE Proceedings Infocom*, Changhai China.
- Kosta, S., Aucinas, A., Hui, P., Mortier, R., & Zhang, X. (2012). Thinkair: Dynamic resource allocation and parallel execution in the cloud for mobile code offloading. *Proceeding of IEEE Conference Infocom*, Florida USA.
- Kravets, R., & Krishnan, P. (2000). Application-driven power management for mobile communication. *Wireless Networks*, 6(4), pp. 263-277.
- Kristensen, M. D. (2007). Enabling cyber foraging for mobile devices. *Proceedings of the 5th MiNEMA Workshop: Middleware for Network Eccentric and Mobile Applications*. Magdeburg University.

- Kristensen, M. D. (2008). Execution plans for cyber foraging. *The 1st Workshop on Mobile Middleware: Embracing the Personal Communication Device*. Article no. 2.
- Kristensen, M. D. (2010). Empowering mobile devices through cyber foraging. *Aarhus University (Ph. D. Thesis)*, Department of Computer Science, Aarhus University, pp. 242.
- Kristensen, M. D. (2010). Scavenger: Transparent development of efficient cyber foraging applications. *The 8th IEEE International Conference on Pervasive Computing and Communications*. Mannheim Germany.
- Kumar, K. (2011). Application-based energy efficient mobile and server computing. *PhD Dissertation*, Purdue University West Lafayette, Indiana.
- Kumar, K., Liu, J., Lu, Y.-H., & Bhargava, B. (2012). A Survey of Computation Offloading for Mobile Systems. *Mobile Networks and Applications*, 18(1), pp. 129-140. Doi: 10.1007/s11036-012-0368-0.
- Kumar, K., & Lu, Y.-H. (2010). Cloud computing for mobile users: can offloading computation save energy? *Computer*, 43(4), pp. 51-56.
- Lai, C.-C., & Ko, R.-S. (2010). Dishes: A distributed shell system designed for ubiquitous computing environment. *International Journal of Computer Networks & Communications*, 2(1), pp. 66-83.
- Liu, J., Kumar, K., & Lu, Y.-H. (2010). Trade-off between energy savings and privacy protection in computation offloading. *The 16th ACM/IEEE International Symposium on Low Power Electronics and Design*, Austin TX USA.
- Liu, Q., Jian, X., Hu, J., Zhao, H., & Zhang, S. (2009). An optimized solution for mobile environment using mobile cloud computing. *The 5th International Conference on Wireless Communications, Networking and Mobile Computing*, Beijing China.
- Liu, X., Shenoy, P., & Corner, M. (2005). Chameleon: application level power management with performance isolation. *The 13th Annual ACM International Conference on Multimedia*, Singapore.
- Lu, Y., Li, S., & Shen, H. (2011). Virtualized Screen: A Third Element for Cloud Computing; *Mobile Convergence. IEEE Multimedia*, 18(2), pp. 4-11.
- Mack, C. A. (2011). Fifty years of Moore's law. *IEEE Transactions on Semiconductor Manufacturing*, 24(2), pp. 202-207.
- Magurawalage, C. M. S., Yang, K., Hu, L., & Zhang, J. (2014). Energy-efficient and network-aware offloading algorithm for mobile cloud computing. *Computer Networks*, V(74), pp. 22-33.

- Mell, P., & Grance, T. (2011). The NIST definition of Cloud Computing. *Special Publication (NIST SP)*, pp. 800-145.
- Messer, A., Greenberg, I., Bernadat, P., Milojevic, D., Chen, D., Giuli, T. J., & Gu, X. (2002). Towards a Distributed Platform for Resource-constrained Devices. *The 22nd International Conference on Distributed Computing Systems*, Vienna Austria.
- Metri, G. (2014). Energy efficiency analysis and optimization for mobile platforms. *PhD Dissertation* Wayne State University January.
- Mollick, E. (2006). Establishing Moore's law. *IEEE Annuals of the History of Computing*, 28(3), pp. 62-75.
- Moghimi, M., Venkatesh, J., Zappi, P., & Rosing, T. (2012). Context-aware mobile power management using fuzzy Inference as a service. *The 7th International Conference on Mobile Computing, Applications, and Services*, pp . 314-327, Krakow, Poland.
- Murarasu, A. F., & Magedanz, T. (2009). Mobile middleware solution for automatic reconfiguration of applications. *The 6th International Conference on Information Technology: New Generations*, pp. 1049-1055, Las Vegas, Nevada.
- New semiconductor research may extend integrated circuit battery life tenfold,. (Aug, 2016). retrieved from (<http://phys.org/news/2013-01-semiconductor-circuit-battery-life-tenfold.html>).
- Newton, R., Toledo, S., Girod, L., Balakrishnan, H., & Madden, S. (2009). Wishbone: profile-based partitioning for sensornet applications. *The 6th USENIX Symposium on Networked Systems Design and Implementation*. pp. 395-408. Boston Massachusetts USA.
- Orlando, F. (October 8, 2013). Gartner Identifies the top 10 strategic technology trends for 2014. Retrieved from (<http://www.gartner.com/newsroom/id/2603623>).
- Othman, M., Madani, S. A., & Khan, S. U. (2014). A Survey of Mobile Cloud Computing application models. *IEEE Communications Surveys & Tutorials*, 16(1), pp. 393-413.
- Ou, S., Yang, K., & Liotta, A. (2006). An adaptive multi-constraint partitioning algorithm for offloading in pervasive systems. *The 4th Annual IEEE International Conference on Pervasive Computing and Communications*, pp. 116-125, Pisa, Italy.
- Ou, S., Yang, K., & Zhang, Q. (2006). An efficient runtime offloading approach for pervasive services. *The IEEE Wireless Communications and Networking Conference*. Volume: 4, pp. 3-6, Las Vegas NV, USA.

- Peltonen, E., Lagerspetz, E., Nurmi, P., & Tarkoma, S. (2015). Energy modeling of system settings: A crowdsourced approach. *The IEEE International Conference on Pervasive Computing and Communications*, St. Louis, Missouri, USA.
- Perrucci, G. P., Fitzek, F. H., Sasso, G., Kellerer, W., & Widmer, J. (2009). On the impact of 2G and 3G network usage for mobile phones' battery life. *The European Wireless Conference, 2009*, Aalborg Denmark.
- Perrucci, G. P., Fitzek, F. H., & Widmer, J. (2011). Survey on energy consumption entities on the smartphone platform. *The 73rd IEEE Vehicular Technology Conference (VTC Spring)*, Hungary.
- Prelas, M., Boraas, M., Aguilar, F. D. L. T., Seelig, J.-D., Tchouaso, M. T., & Wisniewski, D. (2016). Potential applications for nuclear batteries and radioisotopes, *Springer International Publishing*. pp. 285-305.
- Qi, H., & Gani, A. (2012). Research on mobile cloud computing: Review, trend and perspectives. *The 2nd International Conference on Digital Information and Communication Technology and its Applications*, Bangkok, Thailand.
- Rachuri, K. K., Mascolo, C., Musolesi, M., & Rentfrow, P. J. (2011). Sociable sense: exploring the trade-offs of adaptive sampling and computation offloading for social sensing. *The 17th Annual International Conference on Mobile Computing and Networking*, pp. 73-84, Las Vegas, Nevada USA.
- Rahman, M., Gao, J., & Tsai, W.-T. (2013). Energy saving in mobile cloud computing. *The IEEE International Conference on Cloud Engineering*, Boston, Massachusetts, USA.
- Ravi, N., Scott, J., Han, L., & Iftode, L. (2008a). Context-aware Battery Management for mobile phones. *The 6th Annual IEEE International Conference on Pervasive Computing and Communications*. pp. 224-233. doi:10.1109/percom.2008.108, Hong Kong.
- Ravi, N., Scott, J., Han, L., & Iftode, L. (2008b). Context-aware battery management for mobile phones. *The 6th Annual IEEE International Conference on Pervasive Computing and Communications*, pp. 17-21, Hong Kong.
- Rim, H., Kim, S., Kim, Y., & Han, H. (2006). Transparent method offloading for slim execution. *The 2006 1st International Symposium on Wireless Pervasive Computing*, Hilton Phuket Thailand.
- Rudenko, A., Reiher, P., Popek, G. J., & Kuenning, G. H. (1998). Saving portable computer battery power through remote process execution. *ACM Mobile Computing and Communications Review*, 2(1), pp. 19-26.



- Saha, D., & Mukherjee, A. (2003). Pervasive Computing: a paradigm for the 21st century. *Computer*, 36(3), pp. 25-31.
- Sathan, D., Meetoo, A., & Subramaniam, R. (2009). Context aware lightweight energy efficient framework. *International Journal of Humanities & Social Sciences*, pp. 64-70.
- Satyanarayanan, M. (1996). Fundamental challenges in mobile computing. *The 15th Annual ACM Symposium on Principles of Distributed Computing*. pp. 1-7, Philadelphia, PA, USA.
- Satyanarayanan, M. (2001). Pervasive computing: vision and challenges. *IEEE Personal Communications*, 8(4), pp. 10-17.
- Satyanarayanan, M., Bahl, P., Caceres, R., & Davies, N. (2009). The case for vm-based cloudlets in mobile computing. *IEEE Pervasive Computing*, 8(4), pp. 14-23.
- Shin, Y., Lee, H.-J., Shin, K., Kenkae, P., Kashyap, R., Seo, D., Millar, B., Kwon, Y., Iyengar, R., & Kim, M.-s. (2013). 28nm high-K metal gate heterogeneous quad-core CPUs for high-performance and energy-efficient mobile application processor. *The International SoC Design Conference*, Busan Korea.
- Shiraz, M., Abolfazli, S., Sanaei, Z., & Gani, A. (2013). A study on virtual machine deployment for application outsourcing in mobile cloud computing. *The Journal of Supercomputing*, 63(3), pp. 946-964.
- Shiraz, M., & Gani, A. (2014). A lightweight active service migration framework for computational offloading in mobile cloud computing. *The Journal of Supercomputing*, 68(2), pp. 978-995. doi:10.1007/s11227-013-1076-7.
- Shiraz, M., Gani, A., Ahmad, R. W., Shah, S. A. A., Karim, A., & Rahman, Z. A. (2014). A lightweight distributed framework for computational offloading in mobile cloud computing. *PloS one*, 9(8), e102270.
- Shiraz, M., Gani, A., Khokhar, R. H., & Buyya, R. (2013). A review on distributed application processing frameworks in smart mobile devices for mobile cloud computing. *IEEE Communications Surveys & Tutorials*, 15(3), pp. 1294-1313.
- Shiraz, M., Gani, A., Shamim, A., Khan, S., & Ahmad, R. W. (2015). Energy efficient computational offloading framework for mobile cloud computing. *Journal of Grid Computing*, 13(1), pp. 1-18.
- Sharifi, M., Kafaie, S., & Kashefi, O. (2012). A survey and taxonomy of cyber foraging of mobile devices. *IEEE Communications Surveys & Tutorials*, 14(4), 1232-1243.

- Shuja, J., Gani, A., Naveed, A., Ahmed, E., & Hsu, C.-H. (2016). Case of ARM emulation optimization for offloading mechanisms in Mobile Cloud Computing. *Future Generation Computer Systems*. <http://dx.doi.org/10.1016/j.future.2016.05.037>.
- Shuja, J., Gani, A., ur Rehman, M. H., Ahmad, R. W., Ahmed, E., Madani, S. A., Khan, M. K., & Ko, K. (2016). Towards native code offloading based MCC frameworks for multimedia applications: A Survey. *Journal of Network and Computer Applications*. DOI: 10.1016/j.jnca.2016.08.021.
- Shye, A., Scholbrock, B., & Memik, G. (2009). Into the wild: studying real user activity patterns to guide power optimizations for mobile architectures. *The 42nd Annual International Symposium on Microarchitecture*, New York USA.
- Son, Y., & Lee, Y. (2017). Offloading method for efficient use of local computational resources in mobile location-based services using clouds. *Mobile Information Systems*, 2017.
- Su, Y.-Y., & Flinn, J. (2005). Slingshot: deploying stateful services in wireless hotspots. *The 3rd International Conference on Mobile Systems, Applications, and Services*, pp. 79-92, Seattle, WA, USA.
- Nick, T. (2015). How to tell if your smartphone's battery is healthy or bad (iPhone and Android guide). Retrieved from ([http://www.phonearena.com/news/How-to-tell-if-your-smartphones-battery-is-healthy-or-bad-iPhone-and-Android-guide\\_id65591](http://www.phonearena.com/news/How-to-tell-if-your-smartphones-battery-is-healthy-or-bad-iPhone-and-Android-guide_id65591)).
- Teka, F. A. (2014). Seamless live virtual machine migration for cloudlet users with. carleton University Ottawa. *Master Thesis in Electrical and Computer Engineering*, Carolon University Ottawa, Ontario.
- Tsirkel, A., Bradski, G., & Davies, R. (2001). Method and apparatus to adjust the brightness of a display screen: *Google Patents*.
- Vallina-Rodriguez, N., & Crowcroft, J. (2013). Energy management techniques in modern mobile handsets. *IEEE Communications Surveys & Tutorials*, 15(1), pp.179-198.
- Wang, K., Rao, J., & Xu, C.-Z. (2011). Rethink the virtual machine template. *The 7th ACM International Conference on Virtual Execution Environments*. pp. 39-50. Newport Beach, CA, USA.
- Wang, W., & Dey, T. (2011). A survey on arm cortex a processors. Retrieved from (<http://www.cs.virginia.edu/~skadron>. Accessed Date: July 2016).
- What is Windows Azure? (2010). retrieved from (<http://www.microsoft.com/bizspark/azure/>. Accessed Date: 13th June 2016).

- Wolski, R., Gurun, S., Krintz, C., & Nurmi, D. (2008). Using bandwidth data to make computation offloading decisions. The 2008. The *IEEE International Symposium on Parallel and Distributed Processing*, Rome Italy.
- Woollaston, V. (2014). Forget 3D screens and fingerprint scanners, customers really want better battery life and waterproof screens, poll reveals. Retrieved from (<http://www.dailymail.co.uk/sciencetech/article-2715860/Mobile-phone-customers-really-want-better-battery-life-waterproof-screens-poll-reveals.html>). Accessed Date: 23rd June 2016).
- Xian, C., Lu, Y.-H., & Li, Z. (2007). Adaptive computation offloading for energy conservation on battery-powered systems. *The International Conference on Parallel and Distributed Systems*, National Tsing Hua University Hsinchu, Taiwan.
- Xiao, Y., Hui, P., Savolainen, P., & Ylä-Jääski, A. (2011). CasCap: cloud-assisted context-aware power management for mobile devices. *The 2nd International Workshop on Mobile cloud Computing and Services*. pp. 13-18, Bethesda, MD, USA.
- Yang, K., Ou, S., & Chen, H.-H. (2008). An effective offloading services for resource-constrained mobile devices running heavier mobile internet applications. *IEEE Communications Magazine*, 46(1), pp. 56-63.
- Yang, L., Cao, J., Yuan, Y., Li, T., Han, A., & Chan, A. (2013). A Framework for partitioning and execution of data stream applications in fobile cloud computing. *ACM SIGMETRICS Performance Evaluation Review*, 40(4), pp. 23-32.
- Zhang, L. (2013). Power, performance modelling and optimization for mobile system and applications. *PhD Dissertation in Computer Science and Engineering*. The University of Michigan.
- Zhang, L., Tiwana, B., Qian, Z., Wang, Z., Dick, R. P., Mao, Z. M., & Yang, L. (2010). Accurate online power estimation and automatic battery behavior based power model generation for smartphones. *The 8th IEEE/ACM/IFIP International Conference on Hardware/software Code Sign and System Synthesis*. pp. 105-114, Scottsdale, AZ, USA.
- Zhang, X., Jeong, S., Kunjithapatham, A., & Gibbs, S. (2010). Towards an elastic application model for augmenting computing capabilities of mobile platforms. *The 3rd International Conference on Mobile Wireless Middleware, Operating Systems, and Applications*. pp. 161-174, Chicago IL, USA.
- Zhang, X., Kunjithapatham, A., Jeong, S., & Gibbs, S. (2011). Towards an elastic application model for augmenting the computing capabilities of mobile devices with cloud computing. *Mobile Networks and Applications*, 16(3), pp. 270-284.

- Zhao, B., Xu, Z., Chi, C., Zhu, S., & Cao, G. (2010). Mirroring smartphones for good: A feasibility study. *The 7th International Conference on Mobile and Ubiquitous Systems: Computing, Networking, and Services*, pp. 26-38, Sydney Australia.
- Zhuang, Z., Kim, K.-H., & Singh, J. P. (2010). Improving energy efficiency of location sensing on smartphones. *The 8th International Conference on Mobile Systems, Applications, and Services*. pp. 315-330, San Francisco CA, USA.