

References

- [1] C. Mayer, M. A. Tariq, R. Mayer, and K. Rothermel, "GrapH : Traffic-Aware Graph Processing," vol. 29, no. 6, pp. 1289–1302, 2018.
- [2] M. Dayarathna *et al.*, "Acacia-RDF: An X10-Based Scalable Distributed RDF Graph Database Engine," *2016 IEEE 9th International Conference on Cloud Computing (CLOUD)*, San Francisco, CA, 2016, pp. 521-528. doi: 10.1109/CLOUD.2016.0075
- [3] M. Dayarathna *et al.*, "An X10-Based Distributed Streaming Graph Database Engine," *2017 IEEE 24th International Conference on High Performance Computing (HiPC)*, Jaipur, 2017, pp. 243-252. doi: 10.1109/HiPC.2017.00036
- [4] M. Dayarathna and T. Suzumura, "Towards Scalable Distributed Graph Database Engine for Hybrid Clouds," *2014 5th International Workshop on Data-Intensive Computing in the Clouds*, New Orleans, LA, 2014, pp. 1-8. doi: 10.1109/DataCloud.2014.9
- [5] Aurelius (2018), Titan: Distributed Graph Database, <http://titan.thinkaurelius.com/>
- [6] "Oracle Labs PGX: Parallel Graph AnalytiX Overview", *Oracle.com*, 2018. [Online]. Available: <https://www.oracle.com/technetwork/oracle-labs/parallel-graph-analytix/overview/index.html>. [Accessed: 24- Oct- 2018].
- [7] "The Neo4j Graph Platform", *Neo4j Graph Database Platform*, 2018. [Online]. Available: <https://neo4j.com/>. [Accessed: 24- Oct- 2018].
- [8] Bin Shao, Haixun Wang, and Yatao Li. 2013. Trinity: a distributed graph engine on a memory cloud. In *Proceedings of the 2013 ACM SIGMOD International Conference on Management of Data (SIGMOD '13)*. ACM, New York, NY, USA, 505-516. DOI: <http://dx.doi.org/10.1145/2463676.2467799>
- [9] "GraphChi/graphchiDB-scala", *GitHub*, 2018. [Online]. Available: <https://github.com/GraphChi/graphchiDB-scala>. [Accessed: 24- Oct- 2018].
- [10] "AllegroGraph", *Allegrograph.com*, 2018. [Online]. Available: <https://allegrograph.com/>. [Accessed: 24- Oct- 2018].

- [11] G. Karypis and V. Kumar. A fast and high quality multilevel scheme for partitioning irregular graphs. *SIAM J. Sci. Comput.*, 20(1):359–392, Dec. 1998.
- [12] S. Ravindra, M. Dayarathna, and S. Jayasena, “Latency Aware Elastic Switching-based Stream Processing Over Compressed Data Streams,” *Proc. 8th ACM/SPEC Int. Conf. Perform. Eng. - ICPE '17*, pp. 91–102, 2017.
- [13] WSO2. Wso2 Stream Processor. URL:<https://docs.wso2.com/display/SP400/Stream+Processor+Documentation>, 2018.
- [14] W. Kleiminger, E. Kalyvianaki, and P. Pietzuch. Balancing load in stream processing with the cloud. In *Data Engineering Workshops (ICDEW)*, 2011 IEEE 27th International Conference on, pages 16–21, April 2011.
- [15] W. Hummer, B. Satzger, and S. Dustdar. Elastic stream processing in the cloud. *Wiley Interdisciplinary Reviews: Data Mining and Knowledge Discovery*, 3(5):333–345, 2013.
- [16] S. Loesing, M. Hentschel, T. Kraska, and D. Kossmann. Stormy: An elastic and highly available streaming service in the cloud. In *Proceedings of the 2012 Joint EDBT/ICDT Workshops, EDBT-ICDT '12*, pages 55–60, New York, NY, USA, 2012. ACM.
- [17] R. Li, Q. Zheng, X. Li and J. Wu, "A Novel Multi-objective Optimization Scheme for Rebalancing Virtual Machine Placement," 2016 IEEE 9th International Conference on Cloud Computing (CLOUD), San Francisco, CA, 2016, pp. 710-717. doi: 10.1109/CLOUD.2016.0099
- [18] Rishan Chen, Mao Yang, Xu Tian Weng, Byron Choi, Bingsheng He, and Xiaoming Li. 2012. Improving large graph processing on partitioned graphs in the cloud. In *Proceedings of the Third ACM Symposium on Cloud Computing (SoCC '12)*. ACM, New York, NY, USA, Article 3, 13 pages. DOI=<http://dx.doi.org/10.1145/2391229.2391232>
- [19] M. K, "Know more about the system load and its impact on the server performance", Site24x7.com, 2022. [Online]. Available: <https://www.site24x7.com/blog/load-average-what-is-it-and-whats-the-best-load-average-for-your-linux-servers>. [Accessed: 18- Feb- 2022].
- [20] A. Karunaratna et al., "Scalable Graph Convolutional Network based Link Prediction on a Distributed Graph Database Server," 2020 IEEE 13th International Conference on Cloud Computing (CLOUD), 2020, pp. 107-115, doi: 10.1109/CLOUD49709.2020.00028.

- [21] "nmon for Linux | Main / HomePage", *Nmon.sourceforge.net*, 2022. [Online]. Available: <http://nmon.sourceforge.net/pmwiki.php>. [Accessed: 26- Feb- 2022].
- [22] "man page getloadavg section 3", *Manpagez.com*, 2022. [Online]. Available: <http://www.manpagez.com/man/3/getloadavg/>. [Accessed: 27- Feb- 2022].
- [23] "Apache JMeter - Apache JMeter™", *Jmeter.apache.org*, 2022. [Online]. Available: <https://jmeter.apache.org/>. [Accessed: 01- Mar- 2022].
- [24] "SNAP: Network datasets: Youtube social network", *Snap.stanford.edu*, 2022. [Online]. Available: <https://snap.stanford.edu/data/com-Youtube.html>. [Accessed: 02- Mar- 2022].
- [25] "SNAP: Network datasets: Epinions social network", *Snap.stanford.edu*, 2022. [Online]. Available: <https://snap.stanford.edu/data/soc-Epinions1.html>. [Accessed: 02- Mar- 2022].
- [26] "SNAP: Network datasets: Google web graph", *Snap.stanford.edu*, 2022. [Online]. Available: <https://snap.stanford.edu/data/web-Google.html>. [Accessed: 02- Mar- 2022].
- [27] "SNAP: Network datasets: Astro Physics collaboration network", *Snap.stanford.edu*, 2022. [Online]. Available: <https://snap.stanford.edu/data/ca-AstroPh.html>. [Accessed: 02- Mar- 2022].
- [28] S. Noel, D. Bodeau, and R. McQuaid, "Big-Data Graph Knowledge Bases for Cyber Resilience," *CEUR Workshop Proc.*, vol. 2040, no. 17, pp. 6–21, 2017.
- [29] S. Noel, E. Harley, K. H. Tam, and G. Gyor, "Big-Data Architecture for Cyber Attack Graphs," no.14–3549, pp. 1–6, 2016.
- [30] Andreas Wagner and David A. Fell, *The small world inside large metabolic networks*, Proceedings of the Royal Society of London. Series B: Biological Sciences, <http://doi.org/10.1098/rspb.2001.1711>
- [31] Jeong, Hawoong, Bálint Tombor, Réka Albert, Zoltan N. Oltvai, and A-L. Barabási. "The large-scale organization of metabolic networks." *Nature* 407, no. 6804 (2000): 651.
- [32] Moore, Cristopher, and Mark EJ Newman. "Epidemics and percolation in small-world networks." *Physical Review E* 61, no. 5 (2000): 5678.
- [33] McGovern, Amy, Lisa Friedland, Michael Hay, Brian Gallagher, Andrew Fast, Jennifer Neville, and David Jensen. "Exploiting relational structure to understand

publication patterns in high-energy physics." ACM SIGKDD Explorations Newsletter 5, no. 2 (2003): 165-172.

[34] "Home - Docker", *Docker*, 2022. [Online]. Available: <https://www.docker.com/>. [Accessed: 21- Mar- 2022].