REFERENCES

Abawajy, J., Deris, M., and Omer, M. (2006). A novel Data Replication and Management Protocol for Mobile Computing Systems. Mobile Information Systems, IOS Press, Netherlands, 2(1), pp. 3-19.

Adelstein, F., and Singhal, M. (1995). Real-Time Causal Message Ordering in Multimedia Systems. In Proceedings of 15th International Conference on Distributed Computing Systems, Vancouver, Canada, pp. 36-43.

Adly, N., and Kumar, A. (1994). HPP: A Hierarchical Propagation Protocol for Large Scale Replication in Wide Area Networks. Technical Report no. TR-331, Computer Laboratory, University of Cambridge.

Adly, N., and Nagi, M. (1995). Maintaining Causal Order in Large Scale Distributed Systems Using a Logical Hierarchy. In proceedings of the 12th IASTED international Conference on Applied Informatics, Innsbruck, Austria, pp. 214-219.

Adly, N. (1995). Performance Evaluation of HARP: A Hierarchical Asynchronous Replication Protocol for Large Scale Systems. Technical Report no. TR-378, Computer Laboratory, University of Cambridge.

Adly, N., Nagi, M., and Bacon, J. (1993). A Hierarchical Asynchronous Replication Protocol for Large Scale Systems. In Proceedings of the IEEE Workshop on Advances in Parallel and Distributed Systems, Princeton, New Jersey, pp. 152–157.

Agrawal, D., El Abbadi, A. & Steinke, R. (1997). Epidemic Algorithms in Replicated Databases, In Proceedings of the 16th Symposium on Principles of Database Systems, pp. 161–172.

Ajmone, M., Balbo, G., Conte, G., Donatelli, S. and Franceschinis, G. (1995). Modeling with Generalized Stochastic Petri Nets. John Wiley, Chichester.

Ajmone, M., Balbo, G., and Conte, G. (1986). Performance Models of Multiprocessor Systems. MIT Press, Cambridge.

Alagar, S., and Venkatesan, S. (1997). Causal Ordering in Distributed Mobile Systems. IEEE Transactions on Computers, 46(3), pp. 353-361.

Baboglu, O., Bartoli, A., and Dini, G. (1995). Replicated File Management in Large-Scale Distributed Systems. Technical Report UBLCS-94-16, June 1994 (Revised January 1995).

Balbo, G. (2001). Introduction to Stochastic Petri Nets. Lecture Notes in Computer Science, Springer Berlin / Heidelberg, Volume 2090/2001, pp. 84-155.

Balbo, G. (2007). Introduction to Generalized Stochastic Petri Nets. Lecture Notes in Computer Science, Springer Berlin / Heidelberg, 4486/2007, pp. 83-131.

Baliga, A. (2006). Data Replication: Weak Consistency is a Strong Paradigm!. Technical Report, Rutgers University, 2006.

Barbara, D. (1999). Mobile Computing and Databases – a Survey. IEEE Transactions on Knowledge and Database Engineering, 11(1), pp. 108-117.

Barreto, J. (2003). Information Sharing in Mobile Networks: A Survey on Replication Strategies. Technical Report RT/015/03, Instituto Superior T´ecnico, Lisboa.

Bause, F., and Kritzinger, P. (2002). Stochastic Petri Nets -- An Introduction to the Theory. 2nd edition, Springer Verlag, Germany.

Beloued, A., Gilliot, J., Segarra, M., and André, F. (2005). Dynamic Data Replication and Consistency in Mobile Environments. In Proceedings of the ACM 2nd international doctoral symposium on Middleware, Grenoble, France, pp. 1 – 5.

Bernstein, P. A., Hadzilacos, V., and Goodman, N. (1987). Concurrency Control and Recovery in Database Systems: Addison-Wesley.

Birman, K. (1993). The Process Group Approach to Reliable Distributed Computing. Communications of the ACM, pp. 37–53.

Breitbart, Y., and Korth, H. (1997). Replication and Consistency: Being Lazy Helps Sometimes. In Proceedings of 16 ACM Sigact/Sigmod Symposium on the Principles of Database Systems, Tucson, Arizona.

Cetintemel, U., Keleher, P., Bhattacharjee, B. and Franklin, M. (2003). Deno: A Decentralized, Peer-to-Peer Object-Replication System for Weakly Connected Environments', IEEE Transactions on Computers, 52(7), pp. 943–959.

Connolly, T., Begg, C. (2004). Database Systems: a Practical Approach to Design, Implementation and Management. 4th edition, Addison-Wesley.

Davidson, B., Molina G., and Skeen, D. (1985) Consistency in a partitioned network: a survey. ACM Computing Surveys (CSUR), 17(3), pp. 341–370.

Demers, A., Greene , D., Hauser , C., Irish, W., Larson, J., Shenker , S., Sturgis, H., Swinehart, D., and Terry, D. (1987), Epidemic Algorithms for Replicated Database Maintenance. In Proceedings of the Sixth ACM Symposium on Principles of Distributed Computing, pp. 1-12.

Deris, M. , Abawajy, J. , and Mamat, A. (2008). An Efficient Replicated Data Access Approach for Large-scale Distributed Systems. Future Generation Computer Systems, ScienceDirect 24 (2008), pp. 1–9.

Dunham, M., and Helal, A. (1995). Mobile Computing and Databases: Anything New?. SIGMOD Record, 24(4), pp. 5-9.

Ekenstam, T., Matheny, C., Reiher, P., and Popek, G. (2001) "The Bengal Database Replication System", Distributed and Parallel Databases, Springer Netherlands, 9(3) , pp. 187-210.

Fidge, C. (1991). Logical Time in Distributed Computing Systems. Computer, 24(8), pp. 28–33.

Flinn, J., and Satyanarayanan, M. (1999). Energy-aware Adaptation for Mobile Applications. Symposium on Operating Systems Principles (SOSP), pp 48-63.

Ghosh, S. (2006). Distributed Systems: An Algorithmic Approach. CRC Press, pp. 93.

Gifford, D. K. (1979). Weighted Voting for Replicated Data. In Proceedings of the Seventh Symposium on Operating System Principles SOSP 7, pp. 150–162, Asilomar Conference Grounds, Pacific Grove CA. ACM, New York.

Goel, S. , and Buyya, R. (2006). Data Replication Strategies in Wide-Area Distributed Systems. Chapter IX of Enterprise Service Computing: From Concept to Deployment, IGI Global, pp. 211-241.

Golding, R. (1992). Weak-Consistency Group Communication and Membership. PhD Thesis. Technical Report no. UCSC-CRL-92-52. University of California Santa Cruz, CA.

Golding, A. (1993). Modeling replica divergence in a weak-consistency protocol for global-scale distributed data bases. Technical Report: UCSC-CRL-93-09, University of California at Santa Cruz.

Gollmick, C. (2003). Replication in Mobile Database Environments: A client-Oriented Approach. In Proceedings of 14th International Workshop on Database and Expert Systems Applications, pp. 980 – 981.

Gray, J., Helland, P., O'Neil, P., and Shasha. D. (1996). The Dangers of Replication and a Solution, In Proceedings of the 1996 ACM international conference on Management of data, Montreal, Quebec, Canada, pp. 173 – 182.

Hara,T., Nakadori,M., Uchida,W., Maeda, K., and Nishio, S. (2005). Update Propagation Based on Tree Structure in Peer-to-Peer Networks. In proceedings of AICCSA, pp. 40–48.

Helal, A. A. Heddaya, A. A., and Bhargava, B. B. (1996). Replication Techniques in Distributed Systems. Kluwer Academic Publishers.

Holliday, J., Steinke, R., Agrawal, D., and Abbadi, A. (2003). Epidemic Algorithms for Replicated Databases. IEEE Transactions on Knowledge and Data Engineering, 15(5),pp. 1218 - 1238.

Holliday, J., Agrawal, D., Abbadi, A. (2002). Disconnection Modes for Mobile Databases. Wireless Networks, 8(4). pp. 391-402.

Jia, W., and Zho, W. (2005). Distributed Network Systems: From Concepts to Implementations. Springer, pp 252.

Kang, B. (2004). S2D2: A Framework for Scalable and Secure Optimistic Replication. Technical report no. UCB/CSD-04-1351, University of California, Berkeley.

Kang, B. , Wilensky, R. , and Kubiatowicz, J. (2003). Hash history approach for reconciling mutual inconsistency in optimistic replication. In proceedings of the 23rd IEEE International Conference on Distributed Computing Systems (ICDCS'03), pp. 670.

Keleher, P., and Cetintemel, U., (2000). Consistency Management in Deno. Mobile Networking and Applications (MONET), Kluwer Academic Publishers, 5(4), pp. 299-309.

Keleher, P. (1999). Decentralized Replicated Object Protocols. In Proceedings of the 18th Annual ACM Symposiums on Principles of Distributed Computing (PODC'99), pp. 143 - 151.

Ladin, R., Liskov, B., Shrira, L., and Ghemawat, S. (1992). Providing High Availability Using Lazy Replication. ACM Transactions on Computer Systems (TOCS), 10(4), pp. 360–391.

Lamport, L. (1978). Time, Clocks, and the Ordering of Events in a Distributed system. Communications of the ACM, 21(7), pp. 558-565.

Lange, D., and Oshima, M. (1999). Seven good reasons for mobile agents. Communications of the ACM, 42 (3), pp. 88-98.

Lim, A., and Mok, K. (1998). A Study on the Design of Large-Scale Mobile Recording and Tracking Systems. In Proceedings of the Thirty-First Annual Hawaii International Conference on System Sciences,IEEE, pp.: 701.

Lubinski , A. , and Heuer, A. (2001). Configured Replication for Mobile Applications. Databases and information systems, Kluwer Academic Publishers, pp. 139 – 151.

Madria, S., and Bhowdrick, S. (2001), Mobile data management. Potentials, IEEE, 20(4), pp. 11 – 15.

Madria, S., Mohania, M., Bhowmick, S., Bhargava, B. (2002). Mobile data and transaction management, Journal of Information Sciences, Elsevier 141 (2002), pp. 279–309.

Martins, V., Pacitti, E., and Valduriez, P. (2006). Survey of data replication in P2P systems, Technical report, Institut National De Recherche En Informatique Et En Automatique (INRIA), ISSN 0249-6399.

Mattern, F. (1989). Virtual Time and Global States of Distributed Systems. In proceedings of the International Workshop on Parallel and Distributed Algorithms, Elsevier Science Publishers, pp. 215–226.

Minoura, T., and Wiederhold G. (1982). Resilient Extended True-Copy Token Scheme for Distributed Database Systems. IEEE Transactions on Software Engineering, SE-8, pp. 173–189.

Monteiro, J., Brayner, A., Lifschitz, S. (2007). A Mechanism for Replicated Data Consistency in Mobile Computing Environments. In Proceedings of the ACM symposium on Applied computing, Seoul, Korea, pp. 914 – 919.

Montgomery, D. (1991). Design and analysis of experiments. 3rd edition. New York: John wiley & Sons.

Murata, T. (1989). Petri Nets: Properties, Analysis and Applications. In Proceedings of the IEEE, pp.541–580.

Nicola, M., and Jarke, M. (2000). Performance Modeling of Distributed and Replicated Databases. IEEE Transaction on Knowledge and Data Engineering, pp. 645–672.

Nishio, B., Tsukamoto, M. (2002). Data Management Issues in Mobile and Peer-to-Peer Environments. Data & Knowledge Engineering, 41(2–3), pp. 183–204.

Ozsu, T., Valduriez, P. (1999). Principles of Distributed Database Systems. Second Edition. Prentice-Hall.Inc.

Pacitti, E., Minet, P., and Simon, E. (2001). Replica Consistency in Lazy Master Replicated Databases. Distributed and Parallel Databases, Kluwer Academic Publishers(Netherlands), Vol. 9, pp. 237–267.

Pacitti, E., Simon, E. , and de Melo, R. (1998). Improving data freshness in lazy master schemes. In Proceedings of International Conference on Distributed Computing Systems (ICDCS98), Amsterdam, pp. 164.

Parker, D. and Ramos, R. (1982), A distributed file system architecture supporting high availability, in 'Proceedings of the 6th Berkeley Workshop on Distributed Data Management and Computer Networks', pp. 161–183.

Petersen, K., Spreitzer, M., Terry, D., and Theimer, M. (1996). Bayou: Replicated database services for World-Wide Applications. In 7th ACM SIGOPS European Workshop, Connemara, Ireland.

Petersen, K., Spreitzer, M., Terry, D., Theimer, M., and Demers, A. (1997). Flexible Update Propagation for Weakly Consistent Replication. In proceedings of the 16th Symposium on Operating Systems Principles. (SOSP). St. Malo, France, pp. 288–301.

Phatak, S., and Nath, B. (2004). Transaction-Centric Reconciliation in Disconnected Client-Server Databases. Journal of Mobile Networks and Applications 9(5), pp. 459–471.

Prakash, R., Raynal, M., and Singhal, M. (1996). An efficient Causal Ordering Algorithm for Mobile Computing Environment. In Proceedings of the 15th IEEE International Conference on Distributed Computing Systems, Hong-Kong, pp. 744.

Prakash, R., Raynal, M., and Singhal, M. (1997). An Adaptive Causal Ordering Algorithm Suited to Mobile Computing Environments. Journal of Parallel Distributed Computing, 41(2), pp. 190-204.

Rabinovich, M., Gehani, N., and Kononov, A. (1996). Scalable Update Propagation in Epidemic Replicated Databases. In 'Proceedings of the 5th International Conference on Extending Database Technology: Advance in Database Technology', pp. 207–222.

Ratner, D., Reiher, P., Popek, G., Kuenning, G. (2001). Replication Requirements in Mobile Environments. Mobile Networks and Applications, 6(6), pp. 525–533.

Ratner, D. (1998). Roam: a Scalable Replication System for Mobile and Distributed Computing. PhD Dissertation, University of California, Los Anglos.

Ratner, D., Reiher, P., Popek, G. (2004). Roam: a Scalable Replication System for Mobility. Mobile Network and Applications, 9(5), pp. 537-544.

Raynal, M., Schiper, A., and Toueg, S. (1991). Causal Ordering Abstraction and a Simple Way to Implement It. Information Processing Letters, 39(6), pp. 343-350.

Reiher, P., Popek, J., Gunter, M., Salomone, J., and Ratner, D. (1996). Peer-to-Peer Reconciliation Based Replication for Mobile Computers. In Proceedings of European Conference on Object Oriented Programming 96 Second workshop on mobility and replication.

Richard G., John, S., Heidemann, W., Thomas, W., Gerald, J., and Dieter, R. (1990). Implementation of the Ficus Replicated File System. In Proceeding of 1990 Summer USENIX Conference, Anaheim, pp. 63-71.

Richard, G, Reiher, P., Ratner, D, Gunter, M., Wilkie, M., and Popek, J. (1998). Rumor: Mobile Data Access through Optimistic Peer-to-Peer Replication. In ER Workshops, pp.254–265.

Saito, Y. & Shapiro, M. (2005). Optimistic Replication. ACM Computing Surveys,73(1), pp. 42 - 81.

Satyanarayanan, M. (2002). The Evolution of Coda. ACM Transactions on Computer systems (TOCS), 20(2), pp. 85–124.

Schiper, A., Eggli, J., and Sandoz, A. (1989). A New Algorithm to Implement Causal Ordering. In Proceedings of the Third International Workshop on Distributed Algorithms, Berlin, pp. 219-232.

Schneiderman, R. (2002). The Mobile Technology Question and Answer Book ASurvival Guide for Business Managers. American Management Association.

Singhal, M., and Kshemkalyani, A. (1992). An Efficient Implementation of Vector Clocks. Information Processing Letters, vol. 43, pp. 47-52.

Son, S. (1988). Replicated Data Management in Distributed Database Systems. SIGMOD RECORD, 17(4), pp. 62-69.

Stonebraker, M. (1979). Concurrency Control and Consistency of Multiple Copies of Data in Distributed INGRES. IEEE Transactions on Software Engineering, SE-5, pp.188–194.

Sun, C., and Maheshwari, P. (1996). An Efficient Distributed Single-Phase Protocol for Total and Causal Ordering of Group Operations. In Proceedings of the 3rd IEEE International Conference on High Performance Computing, pp. 295.

Terry, D., Theimer, M., Petersen, K., Demers, A., Spreitzer, M., and Hauser, C. (1995). Managing Update Conflicts in Bayou, a Weakly Connected Replicated Storage System. In Proceedings of the Fifteenth ACM Symposium on Operating Systems Principles, pp. 172 – 182.

Terry, S. (1983). Stronger than a Hundred Men: A History of the Vertical Water Wheel. Johns Hopkins University Press, pp. 9-46.

Thomas, R. (1979). A majority Consensus Approach to Concurrency Control for Multiple Copy Databases. ACM Transactions on Database Systems, 4(2), pp.180–209.

Tolia, N., Satyanarayanan, M. and Wolbach, A. (2007). Improving Mobile Database Access Over Wide-area Networks Without Degrading Consistency. In Proceedings of the 5th international conference on Mobile systems, applications and services, San Juan, Puerto Rico, pp.71 – 84.

Vijay, K. (2002). Elements of Distributed Computing. Wiley-IEEE Press, pp. 195-217.

Waluyo,A., Srinivasan, B., and Taniar, D. (2005). Research in Mobile Database Query Optimization and Processing, Mobile Information Systems 1(4), pp. 225–252.

Watanabe, T., Hara,T., Kido, Y., Nishio, S. (2007). An Update Propagation Strategy for Delay Reduction and Node Failure Tolerance in Peer-to-Peer Networks, In Proceedings of the 21st IEEE International Conference on Advanced Information Networking and Applications Workshops (AINAW'07), pp. 103-108.

Watanabe, T., Akimitsu Kanzaki, Hara,T., and Nishio, S. (2008). An Update Propagation Strategy Considering Access Frequency in Peer-to-Peer Networks. DASFAA 2008, LNCS 4947, Springer-Verlag Berlin Heidelberg, pp. 661–669.

Wiesmann, M., Pedone, F., Schiper, A., Kemme, B., and Alonso, G. (2000). Understanding replication in databases and distributed systems. In Proceedings of 20th International Conference on Distributed Computing Systems (ICDCS’2000), Taipei, Taiwan, R.O.C., IEEE Computer Society Los Alamitos California.

Wiesmann, M. (2002). Group Communications And Database Replication: Techniques, Issues And Performance. PhD thesis. informaticien diplômé de l'Université de Genève.

Yu, H., and Vahdat, A. (2000). Design and Evaluation of a Continuous Consistency Model for Replicated Services. In proceedings of the 4th Symposium on Operating Systems Design and Implementation (OSDI) , San Diego, CA, USA, pp. 305–318.

Yu, H., and Vahdat, A. (2001). The costs and limits of availability for replicated services. In Proceedings of ACM SOSP, 2001.

Zhiming, D., Xiaofeng, M., and Shan, W. (2002). A Transactional Asynchronous Replication Scheme for Mobile Database Systems. Journal of Computer Science and Technology, 17(4), pp. 389 – 396.

Zhou, W., Wang, L., and Jia, W. (2004). An Analysis of Update Ordering in Distributed replication Systems. Future Generation Computer Systems 20 (2004), pp. 565-590.