

Publications:

(a) Books.

- 1 Crichlow, J.M., 1988. *An Introduction to Distributed and Parallel Computing*, Prentice Hall, Int., U.K., 209 pps.
- 2 Crichlow, J.M., 1997. *An Introduction to Distributed and Parallel Computing, 2nd Edition*, Prentice Hall, Int., U.K., 238 pps.
- 3 Crichlow, J.M., 2000. *The Essence of Distributed Systems*, Prentice Hall (Pearson Education), 192 pps.
 - 3.a. Crichlow, J.M., 2001. *De Principes Van Gedistribueerde Systemen, (The Dutch translation by Jan Rietdijk of The Essence of Distributed Systems)*, Academic Service, Schoonhoven.
 - 3.b. Crichlow, J.M., 2001. *Hajautetut tietojärjestelmat (The Finnish translation of The Essence of Distributed Systems)*, IT Press.
 - 3.c. Crichlow, J.M., 2003. *Elosztott rendszerek (The Hungarian translation of The Essence of Distributed Systems)*, Kiskapu Kft.
- 4 Crichlow, J.M., 2009. *Distributed Systems – Computing over Networks*, Prentice Hall India, 197pps.

(b) Refereed articles and reviewed conference presentations.

- 1 Crichlow, J.M., 1982. The effect of underground structure on seismic motions of the ground surface, *Geophysical Journal of the Royal Astronomical Society*, 70, 563-575.
- 2 Crichlow, J.M., Beckles, D. and Aspinall, W.P., 1984. Two dimensional analysis of the effect of subsurface anomalies on the free surface response to incident SH waves, *Geophysical Journal of the Royal Astronomical Society*, 79, 2, 495-512.
- 3 Crichlow, J.M., 1986. The free surface response of a subsurface anomaly to an SH wave with source on the surface, *Soil Dynamics and Earthquake Engineering*, 5, 4(Oct), 234-238.
- 4 Crichlow, J.M., 1993. Availability in distributed computing systems, *Caribb. J. Math. Comput. Sci*, 3(1&2), 1-16.
- 5 Francis, M. and Crichlow, J.M., 1995. A mechanism for combining optimism and pessimism in distributed processing, *Proceedings of the IASTED/ISMM International Conference on Intelligent Information Management Systems*, June 7-9, Washington, D.C., 103-106.
- 6 Francis, Y. and Crichlow, J.M., 1996. Graph-based multi-technique distributed system modelling, *Proceedings of the IASTED International Conference on Networks*, Jan 8-10, Orlando, Florida, 197-199 (only abstract reviewed).
- 7 Crichlow, J.M., and Mohammed, I., 1996. Finding bounds on Pessimistic algorithms in Distributed Transaction Processing, *Proceedings of the 7th AGM of the Caribbean Academy of Sciences*, April 25-28, 105-120, Tobago (only abstract reviewed).
- 8 Crichlow, J.M. and O'Neal, M., 1997. An Expert System to regulate Voting in Distributed Transaction Processing, *Proceedings of the 3rd Conference of Natural Sciences*, Jan 14-17, UWI, Mona, Jamaica (only abstract reviewed).
- 9 Crichlow, J.M., Mohan, P. and Devenish, R., 1997. Distributed Concurrency Control with Objects, *Proceedings of the IASTED Int. Conference on Software Engineering*, Nov. 2-4, San

Francisco, California, 307-310.

10 Mohan, F., Brereton, M. and Crichlow, J.M., 1998. Building Distributed Computer systems for the Caribbean - The Roads Maintenance System example, *Proceedings of the 9th AGM of the Caribbean Academy of Sciences*, May 28-30, Guadeloupe.

11 Mohan, P., Crichlow, J.M. and Devenish, R., 1998. Constructing Replication Algorithms using Distributed Objects, *Proceedings of the Tenth IASTED International Conference on Parallel and Distributed Computing and Systems*, October 28-31, Las Vegas, 255-258.

12 Mohan, F. and Crichlow, J.M., 1998. Building Distributed Object-Oriented Web-based Computer Systems for the Caribbean, *Proceedings of the Tenth IASTED International Conference on Parallel and Distributed Computing and Systems*, October 28-31, Las Vegas, 64-67.

13 Hosein, M. and Crichlow, J.M., 1998. Fault-tolerant Optimistic Concurrency control in a Distributed System, *Proceedings of the IASTED International Conference on Software Engineering*, Las Vegas, October 28-31, 319-322.

14 Mohan, F., Crichlow, J.M. and Mohan, P., 1998. A Road System that leads Yesterday's Investment into Tomorrow's Technology, *Proceedings of the IASTED International Conference on Software Engineering*, Las Vegas, October 28-31, 99-102.

15 Crichlow, J.M., Hosein, M.A., Imambaksh, D.C. and Virgil, M.S., 1999. Optimistic replica Management with Concurrent Validation: A Java Implementation, *Proceedings of the IASTED International Conference on Software Engineering and Applications*, Arizona, October 6-8, 381-384.

16 Mohan, P., Crichlow, J.M., Yussuff, S. and Posthoff, C., 2000. Business Rule Processing in a Distributed Object-Oriented System, *Proceedings of the 12th IASTED International Conference on Parallel and Distributed Computing and Systems*, November 6-9, Las Vegas, 677-682.

17 Mohan, P., Yussuf, S., Crichlow, J. and Posthoff, C., 2000. A Rule Language for Specifying and Reusing Object-Oriented Business Rules, *Proceedings of the 4th IASTED International Conference on Software Engineering and Applications*, Las Vegas, November 6-9., 285-290.

18 Innis, C., Crichlow, J., Hosein, M. and Hartley, S., 2002. A Java System that Combines Optimism and Pessimism in Updating Replicas, *Proceedings of the IASTED International Conference on Software Engineering and Applications*, Cambridge, MA, November 4-6.

19 Crichlow, J., Hartley, S., Hosein, M. and Innis, C., 2004. The COPAR Service: Combining Optimism and Pessimism in Accessing Replicas, *Proceedings of the Third IASTED International Conference on Communications, Internet and Information Technology*, St. Thomas, US Virgin Islands, November 22-24, 558-563.

20 Crichlow, J., Hartley, S., Hosein, M. and Ivins, D., 2006. Using an XML file to test a Distributed Replica Accessing System, *Proceedings of the Fourth IASTED International Conference on Communications, Internet and Information Technology*, St. Thomas, US Virgin Islands, November 29-December 1.

21 Crichlow, J., Hartley, S. and Hosein, M., 2008. Using COPAR to facilitate quick Distribution of Disaster Relief, *Proceedings of the 9th IASTED International Conference Software Engineering and Applications (SEA 2008)*, Orlando, Florida, November 16 – 18, 100-105.

22 Beharry, S., Hosein, M., Hartley, S. and Crichlow, J., 2009. Processing Transactions with Greater Accuracy and Availability in COPAR, *Proceedings of the 21st IASTED International Conference Parallel and Distributed Computing and Systems (PDCS 2009)*, Cambridge, MA,

November 2-4, 21-28.

23 Hartley, S., Crichlow, J. and Hosein, M., 2011. Improving distributed Processing in the COPAR System, *International Conference Parallel and Distributed Processing Techniques and Applications, PDPTA'11, Las Vegas, Nevada*, July 18-21, 897-900.

24 Seegobin, R., Hosein, M., Crichlow, J. and Hartley, S., 2011. Design changes to the COPAR Service using Opnet Modeler, *Proceedings of the 15th IASTED International Conference Software Engineering and Applications(SEA 2011), Dallas, Texas*, December 14-16.

25 Crichlow, J., Hartley, S. and Hosein, M., 2012. A High-Availability Distributed System for Countable Objects like Disaster Relief, *The Computing Science and Technology International Journal, Vol. 2, No. 2*, June, 29-32.

(c) Non-refereed articles and non-reviewed conference presentations.

1 Crichlow, J.M. and Barnes, R.F., 1983. The design of a simple interprocess communication system, *No. 68-01-85, Dept. of Maths., U.W.I., St. Augustine, Trinidad*.

2 Crichlow, J.M., 1987. Computer Communications: the St. Augustine experience, *Bulletin of Eastern Caribbean Affairs, ISER, U.W.I., Vol 13, No 3 (Jul/Aug)*, Cave Hill, Barbados, 31-36.

3 Crichlow, J.M., 1988. Computer algorithms for estimating underground structure from seismic SH waves, *No. 68-01-88, Dept. of Maths., U.W.I., St. Augustine, Trinidad*.

4 Crichlow, J.M., 1990. The modelling of distributed computing systems, *1st Festival of Natural Sciences*, U.W.I., Trinidad, August.

5 Crichlow, J.M., 1991. Availability in distributed computing systems, *6th Caribbean Conference of Combinatorics and Computing*, U.W.I., Trinidad, January.

6 Crichlow, J.M., 1991. Multi-technique distributed computer system modelling with a single tool, *2nd Festival of Natural Sciences*, U.W.I., Trinidad, August.

7 Devenish, R. & Crichlow, J.M., 1992. User-space IPC in a distributed computing environment, *Technical Report, Dept. of Maths. & Comp. Sci., U.W.I., St. Aug.*

8 Crichlow, J.M., 1992. Automatic distributed system modelling with graphs, *Technical Report, Dept of Maths & Comp. Sci., U.W.I., St. Aug.*

9 Crichlow, J.M. & Francis, Y., 1992. A quick check on optimistic algorithms for distributed transaction processing, *Technical Report, Dept. of Maths. & Comp. Sci., U.W.I., St. Aug.*

10 Crichlow, J.M., 1994. Combining Optimism and Pessimism to produce high availability in distributed transaction processing, *ACM SIGOPS Operating Systems Review*, 28, 3(Jul), 43-64.

11 Posthoff, Ch. and Crichlow, J.M., 1995. Computer Science Education, *Sixth AGM Caribbean Academy of Sciences*, April 1995, St. Lucia.

12 Crichlow, J.M. and Devenish, R., 1995. Towards an Object-oriented framework for implementing distributed concurrency control algorithms, *Festival of Natural Sciences, U.W.I., St. Augustine*, November.

13. Crichlow, J.M., 2003. Combining Optimism and Pessimism in Accessing Replicas in a Distributed System, *Rowan University, Computer Science Seminar*, March 2003.

(d) Invited presentations.

1 Crichlow, J.M., 1988. Simulation capability of computers and its use in demonstration and instruction, presented to **UNESCO Workshop on the use of computers in Engineering Education**, Faculty of Engineering, U.W.I., Sept. 26-28.

2 Crichlow, J.M., 1994. Computer networks, presented to **First regional workshop on Computer Aided Engineering and Design**, Faculty of Engineering, U.W.I. and Commonwealth Secretariat, Jun 6-17.

3 Crichlow, J.M., 1994. Client-Server Technology, presented to **Uniforum Trinidad and Tobago, First Annual Open Systems conference and exhibition**, Jul 13.

4 Crichlow, J.M., 1995. Client-Server Technology II, presented to **Uniforum Trinidad and Tobago Conference and Exhibition 1995**.

5 Crichlow, J.M., 1997. Computer Networking, **Computer Exposition**, sponsored by St. Augustine Rotary Club and Dept of Surveying and Land Information, UWI, St. Augustine, April 16.

6 Crichlow, J.M., 1999. Internetworking, **Cariscience Workshop**, sponsored by Cariscience and UNESCO, UWI, St. Augustine, September 20-23.