

REFERENCES

(A) JOURNAL PAPERS

- 1) **Afshar, A., Sharifi, F. and Jalali, M.R.**, "*Non-dominated archiving multi-colony ant algorithm for multi-objective optimization: Application to multi-purpose reservoir operation*", DOI: 10-1080/03052150802460414, online Journal of Engineering optimization, Vol.41 No.4, Pg.No.313-325, April 2009.
- 2) **Afshar, M. H. and Shahidi, M.**, "*Optimal solution of large-scale reservoir operation problems: Cellular-automata versus heuristic-search methods at Engineering Optimization*", Iran University of Science and Technology, Vol.41, No.3, Pg.No.275-293, March 2009.
- 3) **Agnithotri, P. G. and Patel, J. N.**, "*Preparation of Flood Reduction Plan for Surat City and Surrounding Region (India)*", Weseas Transactions on Fluid Mechanics, Issue.2, Vol.3, Pg.No.82, April 2008.
- 4) **Ammari, A. and Remini, B.**, "*Estimation of River Discharges based on Chiu's Equation*", Journal of IWWA, Vol.XXXI, Pg.No.103, June 2009.
- 5) **Celeste, A. B., Suzuki, K., Kadota, A.**, "*Integrating Long-ant Short Term Reservoir Operation Models via Stochastic and Deterministic Optimization*", Journal of Water Resources Planning and Management, Pg.No.440, October 2008.
- 6) **Chaudhury, P.**, "*Multiple inflows Muskingum routing model*", Journal Hydrology Engineering, 12(5), Pg.No.437-481, January 2007.
- 7) **Cohon, and Marks.**, "*Models for Optimization: Multi-objective and Multipurpose*", Ch.No.13, Pg.No.390-425, March 1975.
- 8) **Kumar, N. and Reddy, M. J.**, "*Multipurpose Reservoir Operation Using Particle Swarm Optimization*", Journal of U.S.Corps of Engineers, Vol.133 No.3, June 2007.
- 9) **Deka, P. C. and Chandramouli, Y.**, "*Fuzzy Natural Network Modeling of Reservoir Operation*", Journal of Water Resources Planning and Management, Pg.No.5-12, February 2009.
- 10) **Douglas, A. Haith. and Daniel, P. Louds.**, "*Multi-objective Water Resources Planning*", Dept. of Agricultural and Environmental Engineering, Cornell University, Pg.No.365-396, July 1973.
- 11) **Frizzone, Coelho, R.D., Dourado-Neto D., and Soliani. R.**, "*Linear programming model to optimize the water resource use in irrigation projects: an application to the senator Nilo Coelho project*", Research paper Scientia Agricola, Vol.54, June 1997.

- 12) Garrote, L. and Bras, R. L., "A distributed model for real-time flood forecasting using digital elevation models", Journal of Hydrology Engineering, Pg.No.279-306, October 2010.
- 13) Getachew, and Belaineh., "Optimization modeling for water resources management", Journal of Water Resources Planning and Management, Vol.2, Pg.No.154-161, June 1999.
- 14) Golembesky, Kurt. Sankarasubramanian, and Devineni, Naresh., "Improved drought management of falls lake reservoir", Journal of Water Resources Planning and Management, Vol.3, Pg.No.188, June 2009.
- 15) Hazrat Ali, M. D. and Shui, Leeteang., "Optimal Allocation of Monthly Water Withdrawals in Research Systems", Water Resources Management, Pg.No.323, January 2002.
- 16) Illich, Nesa., "Limitations of network flow algorithms in river basin modeling", Journal of Water Resources planning and Management, Pg.No.48, February 2009.
- 17) Jain, S. K., Das A., Srivastava, D. K., "Application of Artificial Neural Network (ANNs) for reservoir inflow prediction and operation", Journal of Water Resources Planning and Management, Pg.No.263, October 1999.
- 18) Jinwen, Wang, and Hubei, P. R., "A Reliability and Risk Analysis System for Multipurpose Reservoir Operation", Environmental Fluid Mechanics, Vol.3, Pg.No.289-303, June 2003.
- 19) Kodinariya, A. M., "Application of low impact development in urban storm water management", M.Tech. Civil engineering at SVNIT, January 2012.
- 20) Kuiry, S. N., Sen, D., MISH, Bates D. Paul and Yan, Ding., "Application of the 1D-QUASI2D Model Tin flood for flood inundation prediction of river Thames", Journal of Hydraulic Engineering (ISH), Vol.17, Pg.No.98, March 2011.
- 21) Martin, G.W., "Optimal operation of multiple reservoir system", Journal of Water Resources Planning and Management, Vol.109 No.1, Pg.No.58-74, January 1983.
- 22) McMohan, G. F., ASCE M. and Farmer, Michael, C., "Rule-Based Storage Accounting for Multipurpose Reservoir Systems", Journal of Water Resources Planning and Management, Pg.No.286, August 2009.
- 23) Mehta, R. and Jain, S. K., "Optimal operation of a multi-purpose reservoir using Neuro-Fuzzy Technique", Water Resource Management, Pg.No.509-529, August 2008.
- 24) Neelakantan, T. R. and Pundarikanthan, N. V., "Neural Network Based Simulation Optimization Model for Reservoir Operation", Journal of Water Resources Planning and Management, Vol.126, Pg.No.57-64, April 2000.
- 25) Patel D. P. and Dholakia, M. B., "Identifying probable submergence area of Surat city using digital elevation model and geographical information system", World Applied Sciences Journal, Pg.No.461-466, March 2010.

- 26) **Patel, D. P. and Dholakia, M. B.**, "*Feasible structural and non-structural measures to minimize effect of flood in lower Tapi basin*", WSEAS transaction on fluid mechanics, Issue.3 Vol.5, July 2010.
- 27) **Patel, D. P., Patel, C. G. and Dholakia, M. B.**, "*Urban flood hazardous mapping by HEC-Georgas and HEC-RAS hydrological modeling*", Urban flood mapping according to TPS of Surat city, ME Dissertation (WRM) CED, L.D. College of Engineering, Ahmadabad, Gujarat, India, August 2009.
- 28) **Prasad, A.K.**, "*Potentiality of multi-sensor satellite data in mapping flood hazard*", Journal of India Soc. Remote Sensing, 34(3), Pg.No.219-231, June 2006.
- 29) **Mohan, S., Prasad, M. A.**, "*Fuzzy neural network modeling of reservoir operation*", Journal of Water Resource Planning and Management, Pg.No.5, February 2009.
- 30) **Singh, A.K., Eldho T.I. and Lindonmaier, F.**, "*GIS, remote sensing and computer models for water resources management*", Proceedings of Training Course, Dept. of Civil Engineering, Nirma University, Ahmadabad, India, January 2005.
- 31) **Singh, A.K., Shah R., Desai S. and Patel D. P.**, "*High resolution remote sensing and field measurements for urban flood mapping. High resolution remote sensing and thematic application*", India Society of Remote Sensing, Calcutta, Pg.No.108-109, December 2007.
- 32) **Yadav S. M. and Samtani B. K.**, "*Bed load transport in Tapi River, India*", Global Journal of Environmental Research, July 2010.
- 33) **Zhao, B. T. and Yeou, Kounq.**, "*Determination of Optimal Unit Hydrographs by Linear Programming*", Journal of Water Resource Management, Pg.No.101, September 1994.

(B) BOOKS / REPORTS

- 1) "*Safety against flood*" broacher by GSDMA, UNDP, Report no. 3739 of 1- CHARIMA model study CWPRS, Khadakvasala, Pune, February 2000.
- 2) A report on "*Tapi River and Flood Embankment SCHEME*", sic, Surat, July 2006.
- 3) **Ashra, L. V. and Shaikh, M. A.**, A report of BIS "*Sedimentation Survey of Ukai Reservoir*", Gujarat Engineering Research Institute (GERI), GOTRI, Vadodara, June 2003.
- 4) Central Water Commission: Water Year Book 2000-2001, Tapi Basin Hydrological Observation Circle, Gandhinagar, Gujarat, India, 2000.
- 5) **Khatwani, K. H., SMC, Surat**, A report on "*State Government response to Surat flood*", August 2006.

- 6) MacMillan, D.H., "The future of tidal research" Chapter No.12, Tides (book) by Pg.No.180-186, 2007.
- 7) News Report, Times of India, Gujarat Samachar published, August 2006.
- 8) Rolf A. De by, Principles of Geographic Information Systems. An Introductory Textbook. ITC Enscheda, the Netherlands, January 2001.
- 9) Shah, P.K., A report on "Ukai Reservoir Operation Guidelines", Ukai Vibhag No.1, Ukai, July 2000.

(C) WEBOGRAPHY

- 1) <http://ntrs.nasa.gov/archive/nasa/casi.ntrs.gov>
- 2) <http://wrmin.nic.in> website of the Ministry of Water Resources, Gol.