

Interactive comment on “Comment on “How effective and efficient are multiobjective evolutionary algorithms at hydrologic model calibration?” by Y. Tang et al., Hydrol. Earth Syst. Sci., 10, 289–307, 2006” by J. A. Vrugt

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I would like to thank Tang et al. (2006) for their excellent contribution to HESS. Their work is important, of high quality, and addresses a number of critical issues related to the use of multiobjective optimization for calibration of hydrologic models. In addition, I high appreciate the comments / suggestions of both reviewers and the editor.

Our recent approach has been to develop multimethod search methods, such as AMALGAM which implements multiple search methods simultaneously for population evolution, and adaptively changes preference to individual algorithms during the search based on their reproductive success. This new search method is relatively easy to

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implement, and is designed such that it can take full advantage of the power of distributed computer networks (with for instance an Octave / MPI implementation used and detailed in Vrugt et al. 2006). This will enable efficient optimization of the emerging generation of complex fully-integrated spatially distributed hydrologic models. We hope to report our findings related to this research in the near future.

Interactive comment on Hydrol. Earth Syst. Sci. Discuss., 4, 179, 2007.

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