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List of Publications[1]

1 Book

[1] J. Schumann Automated Theorem Proving in Software Engineering. ISBN 3-540-67989-8. Springer Verlag, 2001.

2 Peer-Reviewed Articles in Books, Journals, and Workshop and Conference Proceedings

[1] J. Schumann, P. Gupta, and S. Nelson. On Verification & Validation of Neural Network Based Controllers. In *Proc. Engineering Applications of Neural Networks (EANN'03)*. 2002.

[2] G. Scheler and J. Schumann. Presynaptic modulation as fast synaptic switching: state-dependent modulation of task performance. In *Proc. IJCNN 2003*, 2003.

[3] A.G. Gray, B. Fischer, J. Schumann, and W. Buntine. Automatic derivation of statistical algorithms: The EM family and beyond. In *NIPS-15*. MIT Press, 2003.

[4] B. Fischer and J. Schumann. AutoBayes: A System for Generating Data Analysis Programs from Statistical Models. *Journal Functional Programming*, 2003 (in print).

[5] J. Schumann, B. Fischer, M. Whalen, and J. Whittle. Certification Support for Automatically Generated Programs. In *Proceedings of the Thirty-Sixth Annual Hawaii International Conference on System Sciences (HICSS-36)*, 2003, IEEE Press.

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[6] J. Schumann and S. Nelson. Toward V&V of Neural Network Based Controllers. In *Proceedings WOSS (Workshop on Self-Healing Systents, 2002*, pages 67–72, ACM Press.

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[8] M. Whalen, J. Schumann, and B. Fischer. Combining Program Synthesis with Automatic Code Certification (System Description). In *Conference on Automated Deduction (CADE)* , volume 2392 of LNAI, pages 290–294, Springer, 2002 .

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3 Technical Reports

[1] D. Mackall, S. Nelson, and J Schumann. Verification and Validation of Neural Networks of Aerospace Applications. NASA Report CR-211409, 2002.

[2] M. Whalen, J. Schumann, and B. Fischer. Synthesizing Certified Code. RIACS Technical Report 02.03.

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