Brief Curriculum Vita

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Steven L. Tanimoto is Professor of Computer Science and Engineering and Adjunct Professor of Electrical Engineering at the University of Washington in Seattle. His interests include visual languages, parallel image processing, artificial intelligence and educational technology. He has held visiting positions at the University of Paris, Linkoping University (Sweden), Kobe University (Japan), the National Institutes of Standards and Technology, and Thinking Machines Corporation.

Dr. Tanimoto served an an Associate Editor of IEEE Transactions on Pattern Analysis and Machine Intelligence from 1983 to 1986, and as Editor-in-Chief from 1986-1990. His text, The Elements of Artificial Intelligence Using Common Lisp, Second Edition, was published by W.H.Freeman in 1995. He served as the program chair for the 1994 International Conference on Pattern Recognition subconference on parallel computation, and as co-program chair of the 1994 IEEE Computer Society Conference on Computer Vision and Pattern Recognition. He is serving as co-general chair of the 2000 International Symposium on Visual Languages. He was named a Fellow of the IEEE in 1996.

He received the A.B. from Harvard in 1971 and the Ph.D. from Princeton in 1975.

Recent Publications:

1. Tanimoto, S. L. and King, J., and Rice, R. E. 2000. Learning mathematics with image processing: Constructing cylindrical anamorphoses. International Conference on Mathematics/Science Education and Technology, San Diego, CA, Feb. 5-8, 2000.

2. Johnson, D. B. and Tanimoto, S. L. 1999. Reusing web documents in tutorials with the current-documents assumptions: Automatic validation of updates. *Proc. ED-MEDIA 99*, Seattle, WA, June, 1999.

3. Bricker, L. J., Baker Bennett, M. J., Fujioka, E., and Tanimoto, S. L. 1999. Colt: A system for developing software that supports synchronous collaborative activities. *Proc. ED-MEDIA 99*, Seattle, WA, June, 1999. (Also, Technical Report UW-CSE-98-09-03, Dept of Computer Science and Engineering, Univ. of Wash., Seattle, September 1998.)

4. Tanimoto, S. L. 1998. Connecting middle school mathematics to computer vision and pattern recognition. *Int'l J. of Pattern Recognition and Artificial Intelligence* Vol. 12, No. 8, pp.1053-1070.

5. Tanimoto, S. L. and Bernardelli, C. E. 1998. The design and implementation of Vedo-Vedi, a visual language for human communication in the Internet. Technical Report, Dept of Computer Science and Engineering, Univ. of Wash., Seattle, April 1998.

6. Tanimoto, S. L. and Bernardelli, C. E. 1998. Extensibility in a visual language for web-based interpersonal communication. Technical Report, Dept of Computer Science and Engineering, Univ. of Wash., Seattle, March 1998.

7. Cinque, L., Lecca, F., Levialdi, S., and Tanimoto, S. 1998. Image retrieval using rich region descriptions. *Proc. Int'l Conf. on Pattern Recognition*, Brisbane, Australia, pp.899-904.

8. Tanimoto, S. L. 1997. Representation and learnability in visual languages for web-based interpersonal communication. *Proceedings of the International Symposium on Visual Languages*, Capri, Italy, pp.2-10. Also available as Technical Report UW-CSE-97-07-01, Dept. of Computer Science and Engineering, Univ. of Washington, July 1997.

9. Baker, M., Bricker, L., and Tanimoto, S.L. 1997. Cooperative interaction techniques for graphical objects in a collaborative activity. Technical report 97-04-03, Dept. of Computer Science and Engineering, Univ. of Washington, April.
10. Allen, R., Cinque, L., Tanimoto, S.L., Shapiro, L.G., and Yasuda, D. 1997. A parallel algorithm for graph matching and its MasPar implementation. IEEE Trans.Parallel and Distributed Systems, Vol.8, No.5, pp.490-501.
11. Cinque, L., Yasuda, D., Shapiro, L.G., Tanimoto, S.L., and Allen, R. 1996. An improved algorithm for relational distance graph matching. Pattern Recognition, Vol.29, No.2, pp.349-359.
12. Jakobovits, R., Lewis, L.M., Ahrens, J.P., Shapiro, L.G., Tanimoto, S.L., and Brinkley, J.F. 1996. A visual database system for scientific research. J. Visual Languages and Computing, Vol.7, No.4, pp.361-375.
13. Tanimoto, S.L. 1995. Exploring mathematics with image processing. Proceedings of the 1995 IFIP World Conference on Computers in Education, Birmingham, UK. London: Chapman &Hall, pp.805-814.
14. Robinson, R.V., Cook, D., and Tanimoto, S.L. 1995. Programming agents using visual rules. Proceedings of the 1995 International Symposium on Visual Languages, Darmstadt, Germany, Sept. 5-9, pp.13-20.
15. Rogers, R.P., MacDuff, I., and Tanimoto, S.L. 1995. Systolic cellular logic: Architecture and performance evaluation. Proceedings of CAMP'95 (International Workshop on Computer Architecture for Machine Perception), Como, Italy, Sept. 18-20, 1995, pp.51-58.
16. Bricker, L.J., Tanimoto, S.L., Rothenberg, A.I., Hutama, D.C., and Wong, T.H. 1995. Multiplayer activities that develop mathematical coordination. Proceedings of CSCL'95 (Computer Support for Collaborative Learning '95), Bloomington, IN, October 17-20, pp.32-39.
17. Tanimoto, S.L. 1995. Fast median filtering algorithms for mesh computers. Pattern Recognition, Vol.28, No.12, pp.1965-1972. (December).

Current Support: "Use of Online Assessment in Forming and Coaching Learning Groups," Project director for NSF Grant CDA-9616532 Oct. 1996-Sept. 2000. ($600,000 including R.E.U. supplement).

Supervision of completed PhD dissertations:

1. Ephraim P. Glinert (1984, Current employment: Renselaer Polytechnic Institute, Troy, NY); Joseph J. Pfeiffer, Jr. (1986, Current employment: New Mexico State University, Las Cruces, NM);
2. Carlen Brett Bennett (1986. Current employment: Private consultant);
3. Kuo-Lung Ku (1987, Current employment: National Defense Research Laboratory, Taiwan, ROC);
4. Ronald P. Blanford (1988, Current employment: TRW Corporation, Los Angeles);
5. Shu-Yuen Hwang (1989, now deceased, most recent employment: National Chiao Tung University, Taiwan, ROC);
6. Chun-Fu Ricky Yeung (1989, Current employment: Microsoft Corp);
7. James P. Ahrens (1996, Co-supervised by Linda Shapiro, Current employment: Los Alamos National Laboratory, New Mexico);
8. David B. Johnson (1997, Current employment: U.S. West, Seattle, WA).
9. Lauren J. Bricker (1998, Current employment: MathSoft, Inc.)