Errata

The following references should have accompanied the article entitled *Intelligent Tutoring Systems: A Review for Beginners* which appeared in Volume 19, Number 2 of CJEC. We include them here, with apologies to the authors and readers.

REFERENCES

Anderson, J.A., & Rosenfeld, E. (Eds.) (1988). *Neurocomputing: A reader.* Cambridge, MA: MIT Press.

Anderson, J.R. (1983). *The architecture of cognition.* Cambridge, MA: Harvard University Press.

Anderson, J.R. (1988). The expert model. In M.C. Polson, & J.J. Richardson (Eds.), *Foundations of intelligent tutoring systems* (pp. 21-64). Hillsdale, NJ: Lawrence Erlbaum Associates.

Baecker, D., & Buxton, W. (Eds.) (1987). *Readings in human-computer interaction.* Los Altos, CA: Morgan Kauffman.

Beale, R., & Finlay, J. (1989). *User modeling with a neural system.* Heslington, UK: University of York, Department of Computer Science, Technical Report.

Begg, I., & Hogg, I. (1987). Authoring systems for ICAI. In G.P. Kearsley (Ed.), *Artificial intelligence and instruction: Applications and methods* (pp. 323-345). Reading, MA: Addison-Wesley

Brecht, B., McCalla, G., Greer, J., & Jones, M. (1989). Planning the content of instruction. In D. Bierman, J. breuker, & J. Sandberg (Eds.), *Artificial intelligence* and *education: Synthesis and reflection* (pp. 32-44). Amsterdam, Netherlands: IOS.

Bobrow, D. (1984). Qualitative reasoning about physical systems: An introduction. In D. Bobrow (Ed.), *Qualitative reasoning aboutphysical systems* (pp. l-5). Cambridge, MA: MIT Press.

Brown, J.S. (in press). Towards a new epistemology for learning. In C. Fraisson & J. Gauthiers (Eds.) *Intelligent tutoring systems: At the crossroad of Al and education.* Norwood, NJ: Ablex.

Brown, J.S., & Burton, R.R. (1978). Diagnostic models for procedural bugs in basic mathematical skills. *Cognitive Science, 2,* 155-192.

Burns. H.L., & Capp, C. G. (1988). Foundations of intelligent tutoringsystems: An introduction. In M. C. Polson, & J. J. Richardson (Eds.), *Foundations of intelligent tutoring systems* (pp. l-20). Hillsdale, NJ: Lawrence Erlbaum Associates.

Card, S.K., Moran, T.P., & Newell, A. (1983). *Psychology of human-computer interaction.* Hillsdale, NJ: Lawrence Erlbaum Associates.

Carr, B., & Goldstein, J.P. (1977). *Overlays: A theory **of** modelling for computer aided instruction: AI lab memo (406), Logo memo (40.* Cambridge, MA: MIT Press.

Carbonell, J. (1970). AI in CAI: An artificial intelligence approach to computer assisted instruction, *IEEE Transaction on Man-Machine Systems, 11,190-*202.

Charniak, E., & McDermott, D. (1984). *Introduction to Artificial Intelligence.* Reading, MA: Addison-wesley Publishing Company.

Clancey, W.J. (1987). *Knowledge-based tutoring: The GUIDON program.* Cambridge, MA: MIT Press.

Cumming, G., & Self, J. (in press). Learner modelling in collaborative intelligent educational systems. In P. Goodyear (Ed.), *Teaching knowledge and intelligent tutoring systems.* Norwood, NJ: Ablex.

Derry, S., Hawkes, L, & Ziegler, U. A plan-based opportunistic architecture for intelligent tutoring. *Proceedings of the International Conference on Intelligent Tutoring Systems* (pp. 116-123). Montreal, Canada: University of Montreal.

Elsom-Cook, M. (1988). Guided discovery tutors and bounded user modelling. In J. Self (Ed.), *Artificial intelligence and human learning: Intelligent computer-aided instruction.* New York, NY Chapman and Hall.

Elsom-Cook, M., & Spensley, F. Using multiple teaching strategies in an ITS. *Proceedings of the International Conference on Intelligent Tutoring Systems* (pp. 286-290). Montreal, Canada: University of Montreal.

Gagne, R., Briggs, L., & Wager, W.W. (1988). *Principles **of** instructional design (3rd edition).* New York, NY: Holt, Rinehart and Winston.

Gorman, R., & Sejnowski, T. (1988). Analysis of hidden units in a layered network trained to classify sonar targets, *Neural Networks, 1, 75-89.*

Greeno, J. (1983). Conceptual entities. In D. Gentner, & A. Stevens (Eds) *Mental models* (pp. 227-251). Hillsdale, NJ: Lawrence Erlbaum Associates.

Hunka S. (1988). *Fifteen years **of** teaching elementary applied statistics using CAI.* (RIR-88-6) Edmonton, AB: Division of Educational Research, Faculty of Education, University of Alberta,

Kieras, D. (1988). What mental model should be taught: Choosing instructional content. In J. Psotka, L. Massey, & S. Mutter (Eds.), *Intelligent tutoring systems: Lessons learned* (pp. 85-112). Hillsdale, NJ: Lawrence Erlbaum Associates.

Lippert, C. (1987). Teaching problem solving in mathematics and science with expert systems. *School Science and Mathematics, 87, 477-493.*

Littman, D., & Soloway, E. (1988). Evaluating ITSs: The cognitive science perspective. In M.C. Polson, & J. J. Richardson (Eds.), *Foundations **of** intelligent tutoring systems* (pp. 209-242). Hillsdale, NJ: Lawrence Erlbaum Associates.

Mathews, M., Biswas, G., & Neelakandam, H. (1988). USCSH: An active assistance interface for Unix. *Proceedings of the International Conference on Intelligent Tutoring Systems* (pp. 124-131). Montreal, Canada: University of Montreal.

McCalla, G. (1987). *Knowledge representation issues in automated tutoring.* (Research Report 87-l). Saskatoon, SK: Computational Science, University of Saskatchewan.

McCalla, G., & Greer, J. (1988). Intelligent advising in problem solving domains: The SCENT-3 architecture. *Proceedings of the International Conference on Intelligent Tutoring Systems* (pp. 124-131). Montreal, Canada: University of Montreal.

Miller, J.R. (1988). The role of human-computer interaction in intelligent tutoring systems. In M.C. Polson, & J. J. Richardson (Eds.), *Foundations of intelligent tutoring systems* (pp. 143-190). Hillsdale, NJ: Lawrence Erlbaum Associates.

Moyse, R. (1989). Knowledge negotiation implies multiple viewpoints. In D. Bierman, J. Breuker, & J. Sandberg (Eds.), *Artificial intelligence and education: Synthesis and reflection* (pp. 142-149). Amsterdam, Netherlands.

Minsky, M. (1986). *The society of mind.* New York, NY: Simon & Schuster.

Minsky, M., & Papert, *S.* (1969). *Perceptrons.* Cambridge, MA: MIT Press.

Norman, D. (1983). Some observations on mental models. In D. Getner, &A. Stevens (Eds.), *Mental models* (pp. 7-14). Hillsdale, NJ: Lawrence Erlbaum Associates.

Norman, D., & Draper, *S.* (Eds.) (1986). *User centered system design.* Hillsdale, NJ: Lawrence Erlbaum Associates.

Papert, *S.* (1981). *Mindstorms. New* York, NY:Basic Books Inc.

Park, O., Perez, R.S., & Seidel, R.J. (1987). Intelligent CAI: Old wine in new bottles, or a new vintage? In G.P. Kearsley (Ed.), *Artificial intelligence and instruction: Applications and methods* (pp. 11-45). Reading, MA: Addison-Wesley Publishing Company.

Pea, R., & Soloway, E. (1988). The state of the art in education technology research and design: Policy issues and opportunities. *Proceedings of the International Conference on Intelligent Tutoring Systems* (pp. 16-17). Montreal, Canada: University of Montreal.

Pinker, S., & Mehler, J. (Eds) (1988). *Connections and symbols.* Cambridge, MA: MIT Press.

Quigley, M. (1989). In D. Bierman, J. Breuker, & J. Sandberg (Eds.), *Artificial intelligence and education: Synthesis and reflection* (pp. 210-2 17). Amsterdam, Netherlands.

Reiser, B. J., Anderson, J.R., &Farrell, R.B. (1985). Dynamic student modelling in an intelligent tutor for LISP programming. *Proceedings of the International Joint Conference on Artifical Intelligence · 85   1* (pp. 8-14). Los Altos, CA: Morgan Kaufmann.

Richardson, J. J. (1988). Directions for research and applications. In M.C. Polson, & J. J. richardson (Eds.), *Foundations of intelligent tutoring systems* (pp. 243-252). Hillsdale, NJ: Lawrence Erlbaum Associates.

Rosenblatt, J. J. (1988) Directions for research and applications. In M.C. Polson, & J. J. Richardson (Eds.), *Foundations of intelligent tutoring systems* (pp. 243-252). Hillsdale, NJ: Lawrence Erlbaum Associates.

Rumelhart, D., McClelland, J., & PDP Research Group (Eds.) (1986). *Parallel distributed processing, Volume 1: Foundations.* Cambridge, MA: MIT Press.

Sejnowski, *T., &Rosenberg, C.* (1986). *NETtalk: A parallel network that learns* to read aloud. John Hopkins University electrical Engineering and Computer Science Technical Report.

Self, J. (1988). Bypassing the intractable problem of student modelling. *Proceedings of the International Conference on Intelligent Tutoring Systems* (pp. 18-24) Montreal, Canada.

Self, J. (1989). The case for formalizing student models (and intelligent tutoring systems generally). Presented at: *The 4th International Conference on AI and Education,* Amsterdam, Netherlands.

Shorliffe, E.H. (1976). *Computer based medical consultants: MYCIN. New* York, NY: American Elsevier Publishers.

Sleeman, D., & Brown, J.S. (Eds.) (1982). *Intelligent tutoring systems. New* York, NY: Academic Press.

Suthers, D. (1988). Providing multiple views of reasoning for explanation. *Proceedings of the International Conference on Intelligent Tutoring Systems* (pp. 436-442). Montreal, Canada: University of Montreal.

VanLehn, K. (1982). Bugs are not enough: Empirical studies of bugs, impasses, and repairs in procedural skills. *The Journal of Mathematical Behavior, 3* (2), 3-71.

Vardi, M. (Ed.) (1988). *Proceedings of the Second International Conference on the Theoretical Aspects of Reasoning about Knowledge.* Los Altos, CA: Morgan Kaufmann.

Walters, J., &Nielsen, R. (1988). *Crafting knowledge based systems.* NewYork, NY: John Wiley and Sons.

Waterman, D.A. (1986). *A guide to* expert *systems.* Reading, MA: Addison-Wesley Publishing Co.

Enger, E. (1987). *Artifical intelligence and tutoring systems: Computational and cognitive approaches to the communication of knoweldge.* Los Altos, CA: Morgan Kaufmann.

Winne, P., & Cramer, L. (1988). representing and inferencing with knowledge about teaching: DOCENT -An artifically intelligent planning system for teachers. *Proceedings of the International Conference on Intelligent Tutoring systems* (pp. 7-15). Montreal, Canada: University of Montreal.

Wipond, K., & Jones, M. (1988). Curriculum and knowledge representation in a knowledge based system for curriculum development. *Proceedings of the International Conference on Intelligent Tutoring systems* (pp. 97-102). Montreal, Canada: University of Montreal.

Woolf, B. (1988a). Intelligent tutoring systems: A survey. *Survey lectures from the American Association of Artificial Intelligence 1986-1987.* Los Altos, CA: Morgan Kaufmann.

Woolf, B. (1988b). 20 years in the trenches: What have we learned? *Proceedings of the International Conferenceon Intelligent Tutoring Systems* (pp. 33-39). Montreal, Canada: University of Montreal.