

Professor Alex Paul Pentland
 Academic Head, The Media Laboratory
 Toshiba Professor of Media, Arts, and Sciences
 Massachusetts Institute of Technology
 Room E15-387
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Previous Positions

Title	Institution	Date
Senior Computer Scientist	SRI AI Center	1982-87
Visiting Professor	Stanford Psychology Dept	1982-83
Industrial Lecturer	Stanford Computer Science Dept	1983-84
Associate Professor	(MIT)	1987-present
Associate Professor, Civil Engineering	(MIT)	1989-present
Head, Perceptual Computing Section, Media Arts & Sciences (MIT)	(MIT)	1992-present
Adjunct Professor, Electrical Engineering	University of Rochester	1996-present
Academic Head, Media Arts & Sciences	(MIT)	1996-present
Toshiba Professor of Media Arts & Sciences	(MIT)	1996-present

Degrees

Subject	Class	University	Date
B.G.S	1976	University of Michigan	June 1976
Ph.D., Psychology,	1982	MIT	June 1982

HONORS AND AWARDS

1988-90 Optical Society of America, National Chair, Image Understanding Technical Group June
 1987 - present Senior Editor, MIT Press/Bradford Boods Monographs in AI

6/1986 Exceptional Achievement Award, AI Center, SRI International

6/1986 Distinguished Speaker, Stanford University Computer Forum

6/1988 NEC Computer and Communication Career Development Professor

6/1990 NEC Computer and Communication Career Development Professor

6/1991 Best Paper Prize, Institute of Elec. & Electronic Engineers (IEEE)

6/1993 Nominee in Science, Computerworld/Smithsonian Awards

5/1994 Honorable Mention, Ars Electronica

8/1996 Toshiba Professor of Media, Arts and Sciences

1997 Newsweek -The Century Club (list of 100 people to watch in the next century)

Awards Received

NASA Supporting Research Team Group Achievement Award 1979
Industrial Lectureship, Stanford University Computer Science 1983
Best Paper Prize, American Asso. Artificial Intelligence (AAAI) 1984
Exceptional Achievement Award, AI Center, SRI International 1986
Distinguished Speaker, Stanford University Computer Forum 1986
Best Paper Prize, Institute of Elec. and Electronic Engineers (IEEE) 1991
Nominee in Science, Computerworld/Smithsonian Awards 1993
Award in Interactive Art, Ars Electronica 1994
The Century Club (100 people to watch in the next century), Newsweek, 1997
Most Influential Paper of the Decade, Int'l Asso. Pattern Recognition, 2000
Alcatel Prize for Technology in International Development, 2001

Five Directly Related Publications

Weng, J., McClelland, J., Pentland, A., Sporns, O., Stockman, I., Sur, M., Thelen, E., (2001)
Autonomous Mental Development by Robots and Animals, Science, V291 No. 5504, Jan 26, 2001

Pentland, A., and Liu, A., (1999) Modeling and Prediction of Human Behavior,
Neural Computation, 11(1), pp. 229-242, Jan 1999

Pentland, A., (1998) Wearable Intelligence, Scientific American, 9(4) pp. 90-95, Nov. 1998

Stamer, T., Weaver, J., Pentland, A., (1998) Real-Time American Sign Language Recognition from Video Using
Hidden Markov Models, IEEE Trans. Pattern Analysis and Machine Vision, 20 (12) pp. 1371-1375

Essa, I., and Pentland, A., (1997) Coding, Analysis, Interpretation and Recognition of Facial Expressions,
IEEE Trans. Pattern Analysis and Machine Vision, 19 (7) pp. 757-763

Significant Publications

Pentland, A., (1998) Wearable Intelligence, Scientific American special issue on Intelligence, pp. 90-95, Dec.
1998,

Pentland, A., and Liu, A., (1998) Modeling and Prediction of Human Behavior, Neural Computation, 11(1), (to
appear Jan 1999)

Stamer, T., Weaver, J., and Pentland, A., (1998) Real-Time American Sign Language Recognition from Video
Using Hidden Markov Models, IEEE Transactions on Pattern Analysis and Machine Vision, Vol. 20, No. 12, pp.
1371-1375, Dec. 1998.

Pentland, A. (1996) Smart Rooms, Smart Clothes, Scientific American, Vol. 274, No. 4, pp. 68-76, April 1996.

Essa, I., Pentland, A., (1997), Coding, Analysis, Interpretation and Recognition of Facial Expressions, IEEE
Trans. Pattern Analysis and Machine Vision}, Vol. 19, No. 7, pp. 757-763.

Wren, C., Azarbayejani, A., Darrell, T., and Pentland, A., (1997), Pfunder: Real-Time Tracking of the Human Body,
IEEE Trans. Pattern Analysis and Machine Vision, Vol. 19, No. 7, pp. 780-785.

Pentland, A., Picard, R., Sclaroff, S. (1996) Photobook: Tools for Content-Based Manipulation of Image
Databases, in Int'l Journal of Computer Vision, Vol. 18, No. 3., pp. 233-254

Turk, M., and Pentland, A., (1991) Eigenfaces for Recognition, Journal of Cognitive Neuroscience, Vol. 3, No. 1,
pp. 71-86.