



New York University School of Medicine
Office of Industrial Liaison/Technology Transfer

Human Motion Signature

Graphics

Principal Inventor

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Description of the Technology:

Human Motion Signatures collects data from human motions and recognizes the action performed, an expression cadence, and a human signature. The new technology not only recognizes human motions, such as walking, stair ascending/descending, or dancing, unique to each person but it also records the pattern of movement and predicts where the next movement will be.

Features and Benefits:

- Developed a new algorithm that can analyze everyday human motions to separate out distinctive motion signatures.
- Recognize specific individuals performing motions not included in our database, using extracted motion signatures associated with these individuals.
- Synthesize novel motions that are in accord with extracted motion signatures.

Applications:

This system and process robustly extracts signature parameters from a corpus of motion data spanning multiple subjects performing different types of motions. The extracted signatures are useful in the recognition and synthesis of novel motions for animating articulated characters and for recognizing individual human motion.

Patent Status:

U.S. Patent application pending.

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