

A New Method for Automatic, Real-Time Face Detection and Expression Recognition

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TECHNOLOGY DESCRIPTION

University researchers have invented a method for automatic, real-time face detection and expression recognition that is robust for unconstrained situations such as free human motion, varied facial expressions, and many other human and machine factors. The main application has been in human-robot and human-computer interactions, though security applications are also well within reach. Other applications include market surveys, psychological assessment, truth quantification, and automatic tutoring systems.

PATENT STATUS

| Country | Type | Number | Dated | Case |
|--------------------------|---------------|-----------|------------|----------|
| United States Of America | Issued Patent | 7,624,076 | 11/24/2009 | 2003-227 |
| United States Of America | Issued Patent | 7,587,069 | 09/08/2009 | 2003-227 |
| United States Of America | Issued Patent | 7,379,568 | 05/27/2008 | 2003-227 |

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OTHER INFORMATION

KEYWORDS

robots, human-machine interface,
security, smart environments

CATEGORIZED AS

- **Imaging**
 - 3D/Immersive
 - Other
 - Security
- **Sensors & Instrumentation**
 - Other
 - Physical Measurement

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