

AVOID DANGER WITH THE ELECTRONIC “FLY EYE”

Why is it so tricky to swat a fly?

The science behind the fly's ability to avoid a lethal collision reveals a clever physiology that can be imitated by electro-optics and put to use in a host of applications. Today, we can transform the fly's high performance eyesight into a cutting edge electronic appliance. This is a NEW frontier in sensor technology!

The fly reacts in a fast $1/300^{\text{th}}$ sec... the electronic FLY EYE can react as fast as $1/1000^{\text{th}}$ sec.
The fly has about 150,000 “pixels per eye” ... the electronic FLY EYE can have millions.
The fly brain is hard wired for pattern matching... the electronic FLY EYE can analyze patterns.
The fly approximates angles and distances... the electronic FLY EYE can make precise measurements

KEY POTENTIALS:

Utilizes commodity optics & electronics to “sense” without creating an “image” like a camera.
Leverages sensor and processor improvements in step with Moore's Law.
Easily “brain trained” for specific applications using proven algorithms.
Exploits commercial video, optical and computer components.
Inherently compact, lightweight & inexpensive to manufacture.
Employs the ideal geometry of a buckyball.

BENEFITS:

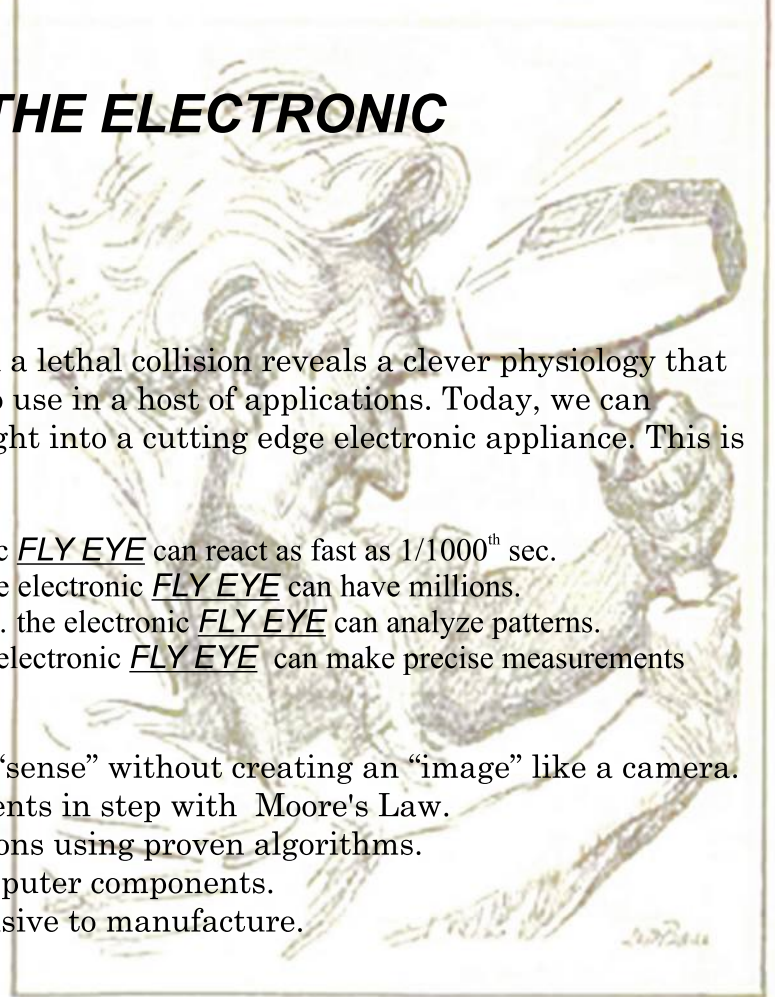
Know the direction from which a threat is coming within a 180-360° sphere.
Detect & respond to a threat in a few milliseconds.
Determine the speed of a threat and when it will arrive.
Do this with any object that moves.

MILITARY USES:

Aircraft collision avoidance
Passive “optical radar” (visible + IR)
Personnel Carrier self-protection
Aircraft (manned & unmanned) self-protection
Automatic Pan-Tilt-Zoom airborne camera control

COMMERCIAL USES:

Surveillance command & control automation
Automotive & marine collision avoidance
Motion and position detection
Intruder alert
Swimming pool accident alarm



SWAT THE FLY, BUT USE COMMON SENSE.

