V.S.B Engineering College, Karur Department of information Technology IBM NALAIYA THIRAN

TITLE: VirtualEye - Life Guard for Swimming Pools to Detect Active Drowning

DOMAIN NAME: Artificial Intelligence

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PROBLEM STATEMENT:

Swimming is one of the best exercises that helps people to reduce stress in this urban lifestyle. Swimming pools are found larger in number in hotels, and weekend tourist spots and barely people have them in their house backyard. Beginners, especially, often feel it difficult to breathe underwater which causes breathing trouble which in turn causes a drowning accident. AngelEye is a leader in the pool safety market and offers systems for drowning detection and prevention. The most innovative software technologies developed by AngelEye and patented underwater cameras detect all the movements of swimmers by providing notifications to safety

SwimEye is a computer vision detection system for the prevention of drowning incidents in swimming pools.

Our underwater cameras will monitor and track the movements of all swimmers in your pool.

SwimEye works
like an "extra
lifeguard"
under the
water of your
pool.

Says

Does

The alarm is also provided directly to pool lifeguards via portable

Thinks

Feels

The live colour video stream is automatically processed by our object recognition software.

AngelEye
LifeGuard is
customizable
according to
customer
needs.

The live video stream from our underwater cameras is automatically monitored by our "state-of-the-art" object recognition software

Lifeguards can
visually assess
the developing
situation within
seconds of the
event first
occurring

it will raise a radio alarm to pool lifeguards and an visual alarm to our Monitoring & Control Station. SwimEye can provide very stable monitoring and highly effective drowning incident detection. SwimEye is secure, private and customizable to be compliant with regional data protection and privacy regulations.

In the event of a serious drowning incident, SwimEye can warn lifeguards much earlier than compared to a pool without this technology.