Visual-AI Foundation Platform enabling comprehensive use case Automation

WildAI - Patented Technology

Wildfaces.ai

Contact Info



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Automation with WildAITM

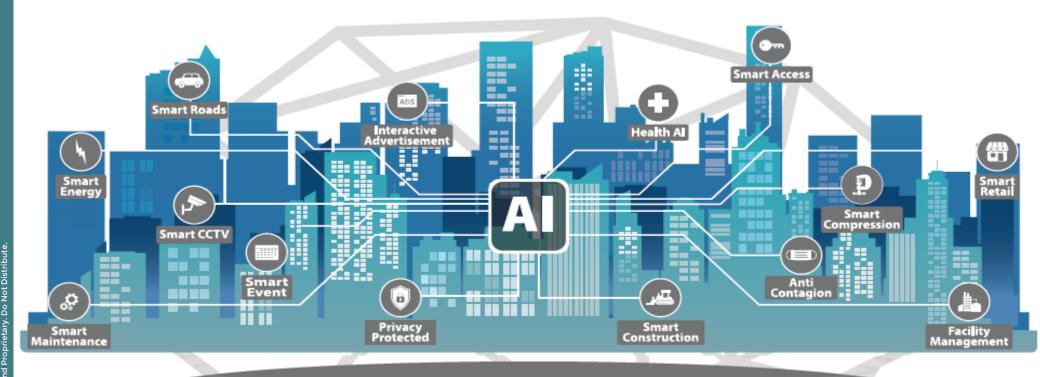


Vision:

WildFaces.ai strives to become the core visual Al platform provider helping leading organizations in key industries to establish on which they can develop different use cases automating their various time-consuming manual processes.



Foundation AI Platform for KEY Industries



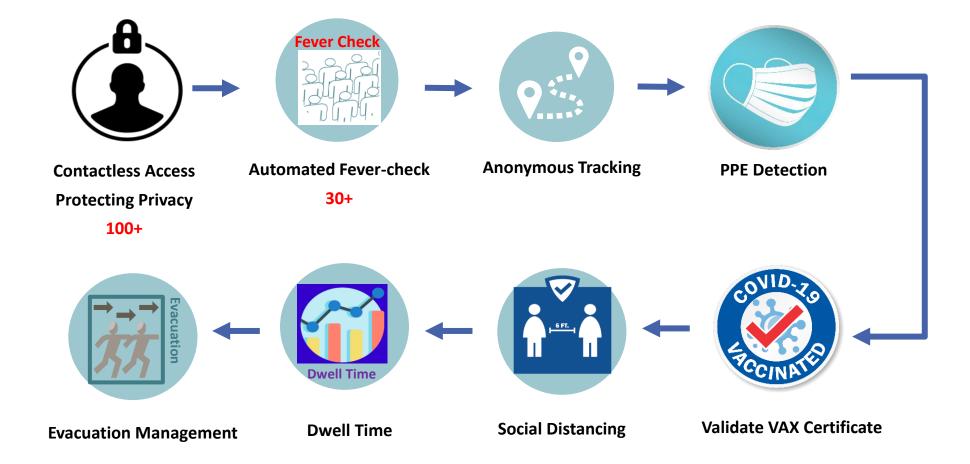
Smart City Foundation Al

WildAIM



Award Winning Automatic Anti-Contagion Suite







Works well UNIQUELY for Extreme Crowds







Large crowd analytics



Higher visual coverage



Accurate & Successive Fever Scanning



WildFaces.a



Recognitions & Achievements

Recognized by AI Technology Leaders Globally

19'Jul 20'Sep 18'May 18'Oct 20'Dec Awarded the top project in Top 3 winners Won the prestigious Hong Kong Winner of the Hong Kong Winner of Innovation Award the "Straight To Wuzhen" selected for "She Smart City Award for its Science and Technology "Anti-Contagion Suite" By contest during the World Loves Tech" "Outstanding Smart Recognition Park's Elevator Pitch under **HK Computer Society** Internet Conference. Competition. and Tracking System" by ETNet Smart City category. 2019 2020 2021 2018 19'Mar 18'Mar 18'Jun

Successfully registered the "onthe-move" recognition patent.

Awarded the best technology presentation at the Create @Hong Kong Smart City Contest by Alibaba & Deloitte.

Awarded the best technology presentation at Startup Pitch Day organized by the Hong Kong Cyberport

20'Jan

On-The-**Move Patent** Granted



3X (Nov 2019, 2020, 2021)

Gartner

Tops Gartner's list as "Most Comprehensive AI supplier" TWICE against 97 multinational companies





2022

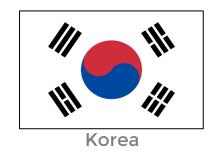
200 Construction Sites
15 Larsen & Toubro facilities



Air Force Hospitals



Samsung Facility



Saudi Telecom Company



Saudi Arabia

Telecom Italia



Exponential-e Data Centers



LAX
Conure Networks Facility



MORE +++







Trusted by public sector clients

Successfully delivered projects for:













and more...

Penetrating the private sector

Engaged for proof-of-concept projects & establishing strategic alliance with:













and more..

Successful Deployments

 Highly Trusted by Public Sector

 Able to achieve their high Accuracy & Privacy Requirements

3. Our Algorithms & Differentiators





Who is WildFaces?













Owns core AI Algorithms; Expandable to cover comprehensive industry use cases



WildAl™ - Practical Al Approaches

- Better emulate multi-faceted human intelligence able to cope with real-life complexities & extreme crowds
- 300 Ready & Proven AI modules including patented capabilities
- Requires NO/ Limited Data Training
- Self-Developed Training Engines requiring 50 samples (others will need at least 20,000)

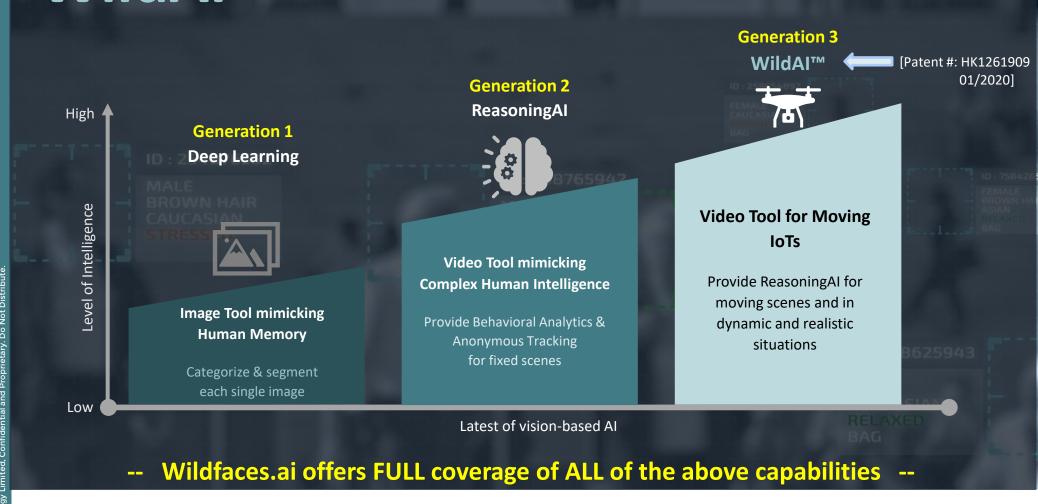








Wildy-complex scenes



Vision-based artificial intelligence has undergone continuous development, its capabilities have expanded from single to multiple matching targets and from static to On-The-Move analytics. Wildfaces.ai is now giving the world of visual AI a new dimension from fixed cameras to moving IoT devices. This proprietary "on-the-move" technology is patented & made-in-HK by Wildfaces.ai in Hong Kong SAR. Our development team is continuously improving the accuracy and response time of the models.

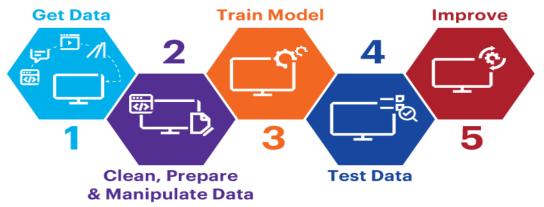




Wildfaces.ai self-developed all core algorithms from scratch. Currently, these are now running on Intel processors but remain open to others. We can license our unique technology worldwide.



Comparison between Deep Learning & WildAI™



Steps	Deep Learning Process	WildAl™ (hybrid AI) Process	
Do Not Distribute	Requires good quality images with sufficient #/types of samples. Eg. 10,000 to 50,000 images per object type to return a reasonable result	Ready Algorithm ingests realistic/ low resolution video & automatically decode the video into frame by frame images.	
2	massive manual data annotation processes. E.g. image selection, cleaning & cropping Massive	Ready Algorithm to select, crop, detect & classify target images/section automatically in the video.	
imited Confident	Massive data training of at least 10,000 – 50,000 images are required for each type of Deep Learning en	Proprietary Training engine requires only 50 images	
diaces Technology	repeat ALL the above steps if the camera view has changed	Adaptable to any new camera view requires no re-training 90% of the cases.	
2 2018 Wil	Repeat all of the above steps to fine tune the system Massive	Just need to test different day & night data to make sure the very system can cope with realistic scene Auto	

Proven Case

Hong Kong Transport Department (HKTD)

Detect Pedestrian
Trespassing in extreme
environment



Major Detection Targets:







About

Pedestrian

Illegal Parking

Left Objects

Benefits:

- Prevent Accidents; Improve Road Safety;
- Eliminate unnecessary traffic congestion

Key Challenges:





Extreme weather (e.g. glare, lightning, rainstorm, typhoon)

Light CPU usage due to limited power supply at the lamppost

Results Achieved by Wildfaces.ai

- 19 out 19 results incidents detected with only 1 false alarm during black rain & signal 10 typhoon in the first month of deployment;
- Go-live within 8 weeks and ready for multi-site deployment.

Proven Case

Hong Kong Correctional Services
Department (HKCSD)

Visual Analytics with NO Data Training



Major Detection Targets:







About

Suicidal Acts

Collapse; Slip & fall

Fighting

Benefits:

To protect HKCSD's officers to be charged for negligence for inmates' injuries or deaths.

Key Challenges:





No past data available for machine learning

Constant
Background changes

Results Achieved even with Extensive Use cases

- Delivered 28 out of 30 use-cases with only 3 false alarms during lengthy 3-month POC stage;
- R&D works are required for the remaining use cases
- Go-live within 12 weeks and featured on various media,
 e.g. SCMP, MingPao etc. See media link from Ces.

How to Start Visual AI Project?

Proven Processes to ensure successful implementation

- 1. Determine customer's Wish List and Priorities
- 2. Choose the right applications, software and systems that meet your requirements.
- 3. Agree with the required processes & operational approach (e.g. manual or automated responses)
- 4. Design the system including camera selection/placement, network design etc
- 5. Implement with knowledge (including proper training).



* If you implement the system without planning for your analytics it will cost a lot to retrofit it later.

How to select VA Supplier?

Capabilities	iOmniscient/WildFaces	Other Suppliers
# of Commercial Experience in	A spin-off from 20 years long Visual AI company,	?
Analytics	iOmniscient (www.iomni.ai)	
Track Records	Successful 75 smart City projects including many	Ş
	railway	
Patents in Crowded and Complex	70 international patents	?
scenes		
Comprehensive Capabilities	Multi-sensory Analytics (video, Sound and Smell)	
Solved Customer Problems – Use	Plenty of Smart city/Railway use cases	?
Case Basis Approaches		
References	Many – see our partial reference list	?
Design Assistance offered to	Yes – to many	Ş
Customers		

www.wildfaces.ai

Smart Retail: Use Case Examples

OPERATIONAL EFFICIENCY

Understand customers including visiting patterns, demographics, individual or average dwell times for shoppers (excluding passers-by)



Use the above information to tailor advertisements and schedule staff accordingly

Understand footfalls of regular shoppers, non-regular shoppers, and VIPs,

Understand Shoppers' interest in certain merchandise (e.g. how many times this item has been picked up)

Turning traditional digital signage or LED display into interactive addressing approaching shoppers' profiles based on their demographic information





HEIGHTEN SECURITY

Find lost children/elderly in a large retail environments

Enhance access control – DriverMatch combines license plate recognition with facial recognition as additional authentication layer to prevent unauthorized entry



Anonymous Tracking for shoplifters upon missing objects



Interface with point-of-sale system to prevent fraud (e.g. cash register left open for too long)

Identify trespassing and tailgating in restricted areas

Real time alerts for theft and vandalism detection of expensive displays



ENHANCE SAFETY

Raise real time alerts for slips and falls

Raise real alerts for any water spills and abandoned objects at the emergency exits



Give warnings for overcrowding to comply with maximum occupancy regulations

Perform video based smoke and fire detection for high ceiling/outdoor environment

Detect children playing near escalators/high floor barriers

Real time alerts for sudden crowd formation / dispersal to prevent stampede



Smart Manufacturing: Use Case Examples

Operational Efficiency

Raise an alert if a piece of machinery needs repair or replacement

Track the location of important equipment

Raise an alert for suspicious behaviors or machine stoppage at the assembly line

Alerts for illegal parking incidents at the facility ensuring smooth & safe access for other vehicles





Enhance Security

Detect and prevent theft in the stock room that is keeping expensive goods & materials to avoid any delay of the work progress

Ensure authorized access 24x7 preventing any intrusion and able to highlight and preventing repeating intruders from entering.

Surveillance System HealthCheck: Alert for camera tampering or sabotage

Ensure Safety

Video based early smoke and fire detection for outdoors and high ceiling environments

Understand occupancy to facilitate evacuations in case of emergency

Prevent tailgating by auto-authenticating access control

Smell Analytics – Detection of hazardous substances (odor/poisonous gases)

Sound Analytics - Detection of loud noises/explosion

Promote worker safety by checking for proper PPE, safety vests, etc

Real time alert of any slips or falls incidents



Smart Warehouse: Use Case Examples

Operational Efficiency

Automate the pickup and drop-off process for regular drivers

Automate the loading process, ensuring loading the proper number of pallets

Prohibit entry of overloaded or oversized vehicles

Establish quarantine control using our video based Fever Check

Ensure the end of the queue (truck queuing line) is not blocking the traffic on the road







Enhance Security

Provide double authentication with facial recognition for faster check-in and fraud prevention, even in large groups. It also works for vehicles using License Plate Recognition or DriverMatch.

Ensure no stealing at the loading docks or temporary storage areas - Detect and prevent theft of expensive goods. Alert if suspects/known thieves are spotted.

Surveillance System HealthCheck: Alert if a camera is tampered with or sabotaged

Ensure SAFETY

Track the location of forklifts

Equipment operation safety (e.g. ensure no one can go near moving forklift or beneath a moving crane)

Ensure workers follow warehouse safety guidelines e,g using a crosswalk on a busy road

Extra big truck cannot enter a small road or going wrong way



Logistic Management: Use Case Examples



Distribution Center Management (ensuring fast check-in & operational efficiency)

Auto Check-in with DriverMatch (e.g. matching Responsible Driver and vehicle plates)

Expedite check-in time for regular users (e.g. auto-fill paper works including Auto-validation of containers & any barcoded merchandise)

Fast Clearance & Quick Turnover at the loading docks particularly for frozen foods that will require immediate refrigeration

- Auto detect the arrival of Truck;
- Auto-opening and closure of door not to waste energy particularly accessing the cold room
- Auto-allocation of first available loading dock
- Auto count of # of loading pallets
- Interface with scale to record the weight of each pallet

Ensure staff productivity eliminate unnecessary bottlenecks due to prolonged smoking breaks

Auto-detect of extra-long queuing time & to notify for opening more service counters

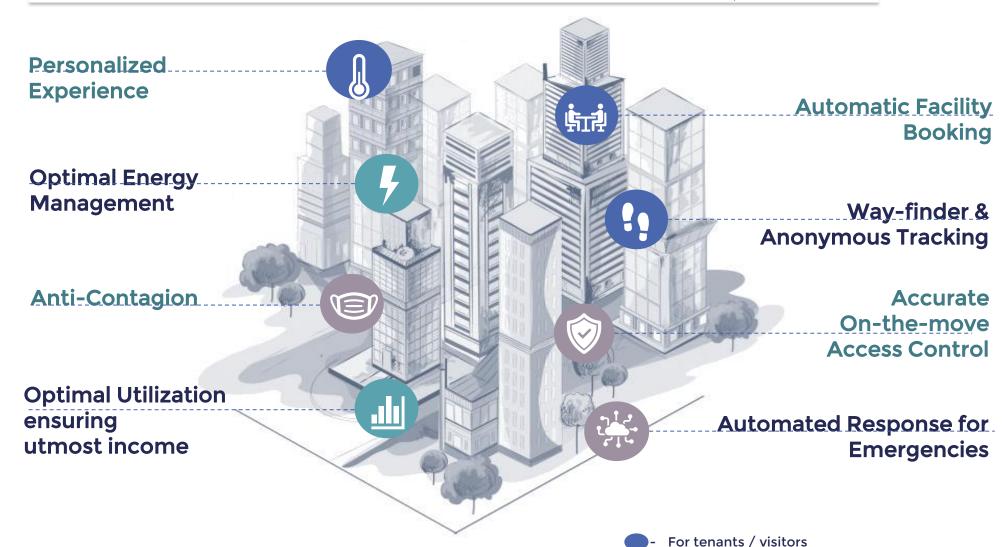
Automated Facility Management using WildAI™

click <u>here</u> for youtube video demo



For landlords
For operation

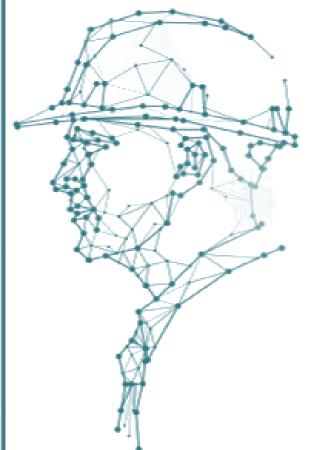
WildFaces



Preventive Maintenance using WildAI™

click <u>here</u> for youtube video demo







Autonomous Site Management

- Automating tedious manual inspections
- Smart Maintenance removing human checks & maintenance
- Automatic Analyzing of work progress
- · Managing visitors, staff & sub-contractors access



Safety Compliance

- Ensure PPE & safety gear compliance
- Automatic Anti-Contagion measurement
- 3-3-3 rules with crane operation
- Immediate Alert of any accidents eg. Slip & fall, leakage & smoke and fire



Automated Asset Management

- · Analyzing asset utilization & staff productivity
- Immediate Alert of unauthorized access 24x7
- Immediate Alert of improper behavior (eg. Missing materials)



Enhanced Security with AI

- Alert for aggressive behavior (e.g. fighting)
- · Alert for equipment tempering and sabotage
- Prevent unauthorized access and frauds particularly after-hour



We would like to offer your organization our core AI engine helping you to automate many more of your time-consuming processes





WildFaces.ai
wildAl On-The-Move 26



More Youtube video demos:

Dwell Time & Demographic Analytics <u>demo video</u>
Automated Facility Management <u>demo video</u>
Smart Traffic <u>demo here</u>
Smart Maintenance <u>demo here</u>

