WAVESYS

EDGE ANALYTICS
WHERE, HOW & WHAT ………?

TECH SPEAKS – BRIEF

Edge AI is a combination of edge computing with artificial intelligence.With AI it becomes possible to use machine learning algorithms for real-time analysis of the data generated by edge devices.Security is less of a concern with edge analytics as well, compared to centralized cloud providers. Data breaches are common with centralized clouds these days ,With edge analytics, data stays within your own firewall, limiting the risk of a breach.

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Edge Analytics is the optimal strategy to improve technical efficiency in surveillance without making massive investments.

EDGE ANALYTICS: WHERE, HOW & WHAT ....

Analytics at Edge is becoming the word of the surveillance industry lately. Analytics at Edge or Edge Analytics as related to video surveillance is the video analytics that takes place on the edge/ your edge of the network, i.e., the camera itself. Wow, right! It would reduce the burden of setting up multiple equipment and a thousand wires dangling after the footage is being captured for analytics. Now that the 'Where' is answered, let's move to the 'What' and 'How'.
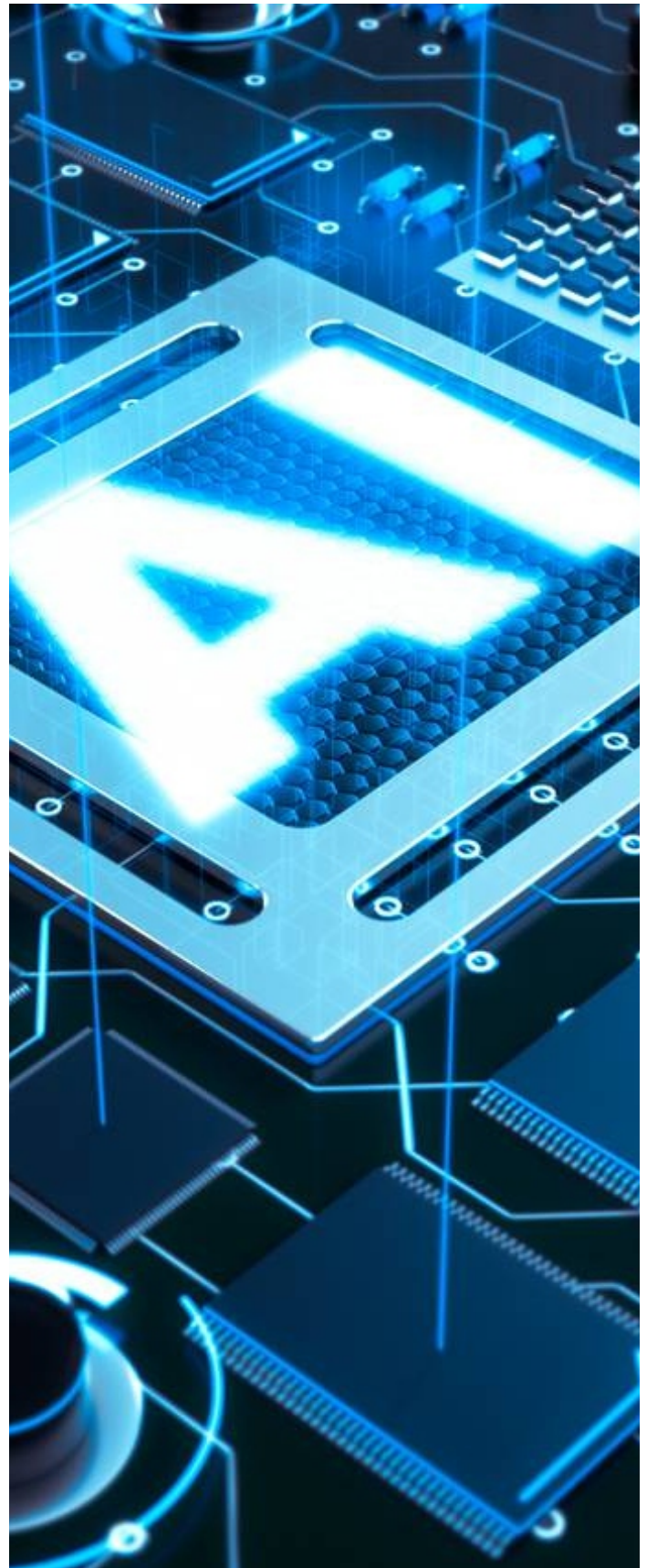
What are the benefits of Edge Analytics?

- Reduced **cost** as high amount of data storage, processing and
- **High-quality** images for review as compression of such images is no more essential.
- Only **valuable data** needs to be transferred to the server.
- Easily **scalable** as the computation process is distributed among cameras with each device analysing its own data.
- **Near real-time analysis** as the time of transmission is revoked.
- **Improved security** as the raw data stays within the camera reducing chances of a data leak.

How does Edge Analytics work?

Edge analytics is an approach wherein the analytical process is performed within the camera instead of compressing and sending the data to a centralised server. It identifies patterns and indicates anomalies alarming the user of safety & security concerns in time. Set up via the camera's web interface, Edge analytics triggers one or more alert actions (as programmed) when an alarming condition is detected.

The technology involved in Edge analytics will continue to improve and transform with AI, DL, and other advanced technologies.

With these rapid advancements and many more on the way, investing in edge analytics can be an effective way to help operations.

Wavesys Camera Support Machine Learning based video content analytics at edge on their IP30 series cameras as well as with more than 5000 camera model sof other manufacturers at server level using open platform video management software. The latest range of Wavesys camera IP 50 series offer industry leading deep learning-based analytics at edge.

Wavesys Global specializes in Video Content Analytics, Video Management Software, IP Cameras and IP Access Control Solutions. Waveys Global offer complete analytics suite with features like speed violation, counting, people tracker, zone & lines, object classification, pattern recognition, post estimation and many more

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