For manufacturers to compete domestically and even on a global scale, responding to marketplace and customer demands is imperative. Essential is the capability to operate manufacturing systems at full capacity and produce quality products in a smartest, most cost effective and efficient way possible.

IOT BIG DATA PROCESSING

NEC’s System Invariant Analysis Technology (SIAT) is proprietary AI analytics software that helps in predictive maintenance of machines by using system or IoT data. This is more advantageous than standard reactive or rule-based preventive maintenance system.

PREDICTIVE MAINTENANCE (AI/DX-BASED)

> Streamlines the monitoring parameters
> Increases AI system oversight
> Emulates systems with many sensors and subsystems yet with less complexity
> Advances AI adoption in machine operations
> Uses standard system data to model normal machine behavior
> Monitors relationships across sensors and predicts a breakdown when sensor failures are detected
> A system dashboard and GUI tools assists in root cause analysis of detected anomalies

VIDEO ANALYTICS SOLUTION

> Enterprise-level use cases using IP cameras
> Camera management
> Thermal sensing
> Notification and Alert Management
> Report generation

WORKER PRODUCTIVITY

> Inactive/no activity monitoring
> Worker count in relationship to work volume
> Work station loitering and absenteeism
> Crowd detection

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SMARTPREDICT™ FOR MANUFACTURING

WORKER SAFETY

> PPE (mask/clothing) detection
> COVID-based mask and social distancing detection
> Intrusion detection in hazardous areas

SITE SURVEILLANCE

> Perimeter security such as detecting fence climbing
> Vehicle monitoring such as plate number, speed and congestion detection

WHY NEC

Headquartered in Irving, Texas, NEC Corporation of America is a leading technology integrator providing solutions that improve the way people work and communicate. NEC delivers integrated Solutions for Society that are aligned with our customers’ priorities to create new value for people, businesses and society, with a special focus on safety, security and efficiency. We deliver one of the industry’s strongest and most innovative portfolios of communications, analytics, security, biometrics and technology solutions that unleash customers’ productivity potential. Through these solutions, NEC combines its best-in-class solutions and technology, and leverages a robust partner ecosystem to solve today’s most complex business problems. NEC Corporation of America is a wholly-owned subsidiary of NEC Corporation, a global technology leader with a presence in 160 countries and $25 billion in revenue. For more information, visit necam.com.

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