

Research

Different Areas

- **Soft Computing:** Genetic Algorithms, Ant colony optimization, particle swarm optimization and their hybridized techniques have been applied in various NP-hard problems with high accuracy rates. There are a few application areas in which GAs have been successfully applied.
 1. Facility layout
 2. Scheduling
 3. Inventory control
 4. Forecasting and network design
 5. Information security
 6. Image processing
 7. Bandwidth and channel allocation

- **IoT and data security:** IoT platforms use different kinds of sensors that measure movement, temperature, humidity, etc. The data obtained from the sensors must be sent to a cloud database once in a certain period of time. Databases must be highly available and fault-tolerant. Once implementing security measures, you should also take into account the number of dynamic resources that a security solution will utilize. DataSunrise Security Suite protects on-premises and cloud databases from unauthorized access and SQL injections, causing a minimal effect on the database performance.

- **IoT and Machine Learning:** Machine learning can help demystify the hidden patterns in IoT data by analyzing massive volumes of data using sophisticated algorithms. Machine learning inference can supplement or replace manual processes with automated systems using statistically derived actions in critical processes.