

Robotic | Human Intelligence

- Presenter: Matthew Yeseta
- LinkedIn: <https://www.linkedin.com/in/matthew-yeseta-master-data-science/>

Advancements Robotic Systems

Advancements in Robotic Systems:

Merging Human Intelligence with Machine Precision for
Autonomous Unstructured Workplaces

Merging Human Intelligence

- Merging Human Intelligence with Machine Precision for Autonomous Unstructured Workplaces
- Brief overview of benefits of combining human intelligence, instincts, judgment with robotic strength, endurance, and precision.

Background

- Context of unstructured workplaces.
- Challenges faced in unstructured, dynamic environments.
- Concept of robotic systems combining human and machine capabilities to address these challenges.

Objectives

- Augment human performance and awareness.
- Enable autonomous operation in unstructured, dynamic environments.
- Leverage AI/ML technologies for learning and independent task execution.

Human-Machine Collaboration

- Importance of collaboration between humans and machines.
- Synergy between human intelligence, instincts, and judgment with machine strength, endurance, and precision.

Augmentation of Human Abilities

- Robotic systems enhance human capabilities in unstructured environments
- Robotics improved strength, endurance, and precision through robotic assistance.
- Robotics work groups with humans working alongside robots for enhanced performance

Autonomous Operation

- Concept on robots operating autonomously when trained or remotely supervised by a human operator.
- Benefits of autonomous operation in unstructured and dynamic workplaces.

Learning from Operators

- Integration of AI/ML technologies to enable robots to learn from human operators.
- Vital continuous learning for adapting to evolving tasks and environments.
- AI/ML technologies contribute to the adaptability and flexibility of robotic systems

Multiplied Benefits

- Benefits: Combination of human-machine collaboration, autonomous operation, and AI/ML learning
- Benefits: Improved performance, increased efficiency, and enhanced adaptability in unstructured workplaces

Applications & Industries

- Industries, applications where robotic systems can be applied:
- Manufacturing
- Healthcare
- Agriculture
- Search and rescue
- Exploration and more

Future Outlook AI ML

- Potential future developments and advancements in robotic systems.
- Ongoing research and innovation in the field.

Thank You

- Thank you for you valued time and interest
- Connections:
- Matthew Yeseta
- 812-727-8151
- aidatasmart@gmail.com