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The field of Intelligent Autonomous Systems (IAS) has attracted over the years the

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Recent breakthroughs in Artificial Intelligence (AI)-based methods and the emergence of highly-parallelized processor boards with low form-factor has led to the opportunity to employ Machine Learning (ML) techniques to enhance navigation system performance, particularly for small UAS (sUAS), which account for the majority of current and future unmanned aircraft use-cases. sUAS navigation systems typically employ diverse low Size, Weight, Power and Cost (SWaP-C) sensors such as Global ...

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- Combining visual, tactile and range sensor information to increase the autonomy of robots / M. Seitz [and others]
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Intelligent Autonomous Systems - Call for Papers - Elsevier

According to the Intelligent Transportation Systems website of the U.S. Department of Transportation, the cost of SCATS and SCOOT technology is upward of \$20,000 per intersection, with SCOOT being ...

Smarter Traffic Lights, Calmer Commuters - The New York Times

Advances in Intelligent Autonomous Systems by S.G. Tzafestas, 9780792355809, available at Book Depository with free delivery worldwide.

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We conclude the following about autonomous

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technology's current state of the art: • Advances in autonomy have been steady, but the transition to systems capable of reacting to unexpected changes in the environment has not occurred and might not occur for a decade or more.

Advancing Autonomous Systems - RAND Corporation

Recent advances in the areas of Artificial Intelligence, Machine Learning and Adaptive Control enable autonomous systems with improved robustness and flexibility. This special issue focuses on theory and advanced systems to be applied in industry and society as well as in adverse environments.

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Based in Greater Vancouver, Advanced Intelligent Systems Inc. (AIS) is an autonomous robotics company in Western Canada that creates practical, affordable mobile robots to solve real industry problems. AIS technology is based on modularity allowing robots to be used for more than one

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application.

Autonomous Robots | Advanced Intelligent Systems (AIS)

Intelligent Robotics and Autonomous Systems (IRAS) R&D advances intelligent robotic systems; this includes R&D in robotics hardware and software design and application, machine perception, cognition and adaptation, mobility and manipulation, human-robot interaction, distributed and networked robotics, and increasingly autonomous systems.

IRAS - nitrd.gov

This paper summarizes the state of the art autonomous systems by first discussing the definition, modeling, and system structure of autonomous systems and then providing a perspective on how autonomous systems can be integrated with advanced resources (e.g., the Internet of Things, big data, Over-the-Air, and federated learning).

Integrations between Autonomous Systems and Modern ...

Robotic Systems and Autonomous Platforms: Advances in Materials and Manufacturing showcases new materials and manufacturing methodologies for the enhancement of robotic and autonomous systems. Initial chapters explore how autonomous systems can enable new uses for materials, including innovations on different length scales, from nano, to macro

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and large systems.

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A 2014 ICRC expert meeting report, *Autonomous weapon systems: Technical, Military, Legal and Humanitarian Aspects*, identifies ship and land-based defensive weapon systems and fixed gun systems as examples of autonomous weapons systems currently in use. These weapon systems operate in stationary roles, with differing degrees of human oversight.

Lethal Autonomous Weapons Systems at the First and Second ...

Autonomous Intelligent Systems: Multi-Agents and Data Mining: This book constitutes the refereed proceedings of the Second International Workshop on Autonomous Intelligent Systems: Agents and Data Mining, AIS-ADM 2007, held in St. Petersburg, Russia in June 2007. The 17 revised full papers and six revised short papers presented together ...

Intelligent Agents, Robotics & Artificial Intelligence ...

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