Mobile Intelligent Autonomous Systems

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Going beyond the traditional field of robotics to include other mobile vehicles, **Mobile Intelligent Autonomous Systems** describes important theoretical concepts, techniques, approaches, and applications that can be used to build truly mobile intelligent autonomous systems (MIAS). It offers a comprehensive treatment of robotics and MIAS, as well as related disciplines, helping readers understand the subject from a system-theoretic and practical point of view. Organized into three sections, the book progresses from conceptual foundations to MIAS and robotics systems and then examines allied technologies. With an emphasis on recent research and developments, experts from various fields cover key aspects of this rapidly emerging area, including:

- Path and motion planning
- Obstacle avoidance in a dynamic environment
- Direct biological-brain control of a mobile robot
- Sensor and image data fusion
- Autonomous decision making and behavior modeling in robots
- Hydro-MiNa robot technology
- Adaptive algorithms for smart antennas
- Control methods for autonomous micro-air vehicles
- Neuro-fuzzy fault-tolerant auto-landing for aircraft
- H-infinity filter based estimation for simultaneous localization and mapping

Where relevant, concepts and theories are illustrated with block/flow diagrams and numerical simulations in MATLAB®. An integrated exploration of the theory and practice of MIAS and robotics, this is a valuable reference and recipe book for research and industry.

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