**1. Passive Infrared (PIR) Sensor-Based Detection**

* **Title:** *A Motion Induced Passive Infrared (PIR) Sensor for Stationary Human Occupancy Detection*
  + **Summary:** This study addresses the limitation of traditional PIR sensors, which typically detect only moving humans. The proposed motion-induced PIR sensor enhances detection capabilities for stationary human occupancy.
  + **Link:** <https://www.researchgate.net/publication/338375555_A_Motion_Induced_Passive_Infrared_PIR_Sensor_for_Stationary_Human_Occupancy_Detection>
* **Title:** *Passive Infrared Sensor-Based Occupancy Monitoring in Smart Buildings: A Review*
  + **Summary:** This review thoroughly examines the application of various techniques, machine learning algorithms, and configurations for PIR sensors in indoor building occupancy monitoring.
  + **Link:** https://www.mdpi.com/1424-8220/24/5/1533

**2. Thermal Sensor-Based Detection**

* **Title:** *Detection and Tracking of a Human Using the Infrared Thermopile Array Sensor*
  + **Summary:** This research explores the use of infrared thermopile array sensors for human detection and tracking, highlighting their effectiveness in capturing thermal signatures.
  + **Link:** <https://ieeexplore.ieee.org/document/8342790/>
* **Title:** *Human Presence Detection with Thermal Sensor using Multilayer Perceptron Algorithm*
  + **Summary:** The study presents a method for human presence detection utilizing thermal sensors in conjunction with a multilayer perceptron algorithm, aiming for enhanced accuracy in smart home applications.
  + **Link:** <https://www.researchgate.net/publication/351356928_Human_Presence_Detection_with_Thermal_Sensor_using_Multilayer_Perceptron_Algorithm>

**3. Infrared-Based Detection**

* **Title:** *Research on the Multiple Factors Influencing Human Identification Using Infrared Sensors*
  + **Summary:** This paper investigates various factors affecting human identification through infrared sensors, providing insights into optimizing detection systems.
  + **Link:** <https://www.ncbi.nlm.nih.gov/pmc/articles/PMC5854993/>
* **Title:** *Exploring the Potential of Combining Time of Flight and Thermal Infrared Cameras for Person Detection*
  + **Summary:** The study explores the integration of Time-of-Flight and thermal infrared cameras to enhance person detection capabilities, leveraging the strengths of both technologies.
  + **Link:** <https://arxiv.org/abs/1612.02223>

**4. Machine Learning-Based Approaches**

* **Title:** *Deep Learning Based Human Presence Detection*
  + **Summary:** This research focuses on developing a human presence detector using state-of-the-art YOLO variations to achieve real-time detection with high accuracy, suitable for deployment in smart factory environments.
  + **Link:** <https://www.researchgate.net/publication/353696817_Deep_Learning_Based_Human_Presence_Detection>

**5. RGB Camera Based**

* **Title:** People Detection and Tracking Using RGB-D Cameras for Mobile Robots

**Summary:** This study presents a human detection and tracking system designed for mobile robots using RGB-D cameras. The framework comprises human detection, tracking, and re-identification, utilizing depth-weighted histograms and particle filter algorithms to enhance precision.

**Link:** https://journals.sagepub.com/doi/10.1177/1729881416657746

* **Title:** People Detection and Tracking from an RGB-D Camera in Top-View Configuration: Review of Challenges and Applications

**Summary:** This paper provides a literature review on the use of RGB-D cameras for people detection and tracking, focusing on top-view configurations. It discusses the challenges and applications associated with this approach.

**Link:** <https://www.researchgate.net/publication/320267380_People_Detection_and_Tracking_from_an_RGB-D_Camera_in_Top-View_Configuration_Review_of_Challenges_and_Applications>

**6. Thermal Camera Based**

**7. WIFI Signal Based**

* **Title:** *WiFi-Based Human Identification with Machine Learning*
  + **Summary:** This paper conducts a comprehensive survey of recent advances and practical implementations of WiFi-based human identification, emphasizing machine learning techniques.
  + **Link:** <https://www.mdpi.com/1424-8220/24/19/6413>
* **Title:** *Attention-Enhanced Deep Learning for Device-Free Through-the-Wall Presence Detection Using Indoor WiFi Systems*
  + **Summary:** The study proposes a novel system employing attention mechanisms and bidirectional LSTM networks to detect human presence through walls using WiFi signals, enhancing accuracy in non-line-of-sight scenarios.
  + **Link:** <https://arxiv.org/abs/2304.13105>