

# **Panasonic Security Camera Ptz Auto Tracking**

**Daniel F McAuley** 

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Digital Video Surveillance and Security Anthony C. Caputo, 2014-03-18 The use of digital surveillance technology is rapidly growing as it becomes significantly cheaper for live and remote monitoring The second edition of Digital Video Surveillance and Security provides the most current and complete reference for security professionals and consultants as they plan design and implement surveillance systems to secure their places of business By providing the necessary explanations of terms concepts and technological capabilities this revised edition addresses the newest technologies and solutions available on the market today With clear descriptions and detailed illustrations Digital Video Surveillance and Security is the only book that shows the need for an overall understanding of the digital video surveillance DVS ecosystem Highly visual with easy to read diagrams schematics tables troubleshooting charts and graphs Includes design and implementation case studies and best practices Uses vendor neutral comparisons of the latest camera equipment and recording options Casino Journal ,2006 Today's Facility Manager ,2007 Security, 2008 Campus Technology ,2007 CCTV Surveillance Herman Kruegle, 2011-03-15 This revision of the classic book on CCTV technology CCTV Surveillance provides a comprehensive examination of CCTV covering the applications of various systems how to design and install a system and how to choose the right hardware Taking into account the ever changing advances in technology using digital techniques and the Internet CCTV Surveillance Second Edition is completely updated with the recent advancements in digital cameras and digital recorders remote monitoring via the Internet and CCTV integration with other security systems Continuing in the celebrated tradition of the first edition the second edition is written to serve as a useful resource for the end user as well as the technical practitioner Each chapter begins with an overview and presents the latest information on the relevant equipment describing the characteristics features and application of each device Coverage of aging or obsolete technology is reduced to a historical perspective and eight brand new chapters cover digital video technology multiplexers integrated camera lens housing smart domes and rapid deployment CCTV systems Serves as an indispensable resource on CCTV theory Includes eight new chapters on the use of digital components and other related technologies that have seen a recent explosion in use Fully illustrated the book contains completely updated photographs and diagrams that represent the latest in CCTV technology advancements **Global Sources Electronics** ,2006 **Metro** .2007 A Novel Tracking Algorithm Using Thermal, MmWave Radar and Optical Sensors Fusion Imaging Bogdan Iepure, 2020 Moving object tracking in pan tilt zoom PTZ cameras is a critical feature for automated surveillance applications The PTZ auto tracking function enables the camera to control electric motor mechanisms that perform pan tilt zoom tasks to adjust the course of the optical sensor field of view FOV of the camera to track moving objects automatically The aim of moving object tracking is to extract a region of interest from a frame of sequenced images and to keep track of the region s motion and position while avoiding occlusions The preceding steps of tracking an object in a sequence of images are object detection and object

classification Object detection is performed to isolate and localize a region of interest from a frame of successive images After identifying and curbing a region of interest in an image the classification of the confined region is performed in order to implement a complete object tracking Object classification is the process of categorizing the detected region of interest in unequivocal classes such that the region of interest can be discerned from other constituencies in a frame of consecutive images In moving object tracking and preceding steps the quality of the image plays an imperative role The performance of an accurate object tracking implementation heavily relies on factors such as scene lighting image background dynamic the presence of shadows in the image occlusions or the existence of noise or image distortion In order to enhance moving object tracking the quality of the image in which the tracking is performed can be improved by fusing images from sensors with different wavelength spectrums such as thermal and optical sensors In fusing such sensors the image quality of an optical sensor can be drastically improved in low light or dark scene scenarios. The image fusion process is defined as congregating the significant information of two or more input images of a scene into a single image output conveying supplementary detailed information of the same scene which ultimately is greater than the original information of the input images In order to aid in avoiding occlusions that can pose difficulties in continuous object tracking sensors that can measure the distance or angular velocity of the targeted region of interest such as millimeter wave mmWave based radars can be merged or fused together with thermal and optical image sensors In this study a comprehensive research of different methods of computer vision object detection object classification and object tracking is presented Further a thorough examination of different methods of thermal and optical sensor image fusion is conducted The advantages and drawbacks of the different methods presented are discussed and quantitatively evaluated Moreover the millimeter wave radar technology for measuring the distance and angular velocity of an object of interest in the field of view of a camera sensor is explained Finally a proposed novel object tracking method based on the fusion of thermal and optical sensor images is implemented Additionally the fused image is merged with a millimeter wave radar raw data measurement The implementation of the proposed method is performed on a small pan tilt setup which ultimately tracks the object of interest based on thermal data while keeping the optical image resolution the same as the thermal image resolution and provides valuable distance measurements to the target based on the millimeter wave radar readings Photographer's Guide to the Panasonic Lumix LX3 Alexander S. White, 2010-07-12 Photographer's Guide to the Panasonic Lumix LX3 Getting the Most from Panasonic's Versatile Digital Camera is a follow up to the author's well received guide to a very similar camera the Leica D Lux 4 This new guidebook covers all features and operations of the LX3 one of the most highly esteemed compact digital cameras of recent years In 232 pages with numerous color photographs and illustrations the book explains in plain language how to achieve the best possible results taking pictures with the automatic or manual controls of the LX3 Although much of the information in this book is similar to that in the earlier book about the Leica D Lux 4 camera this new volume is updated to include several new

Photographer's Guide to the Panasonic Lumix DC-ZS200/TZ200 Alexander White, 2018-06-18 Photographer's Guide to the Panasonic ZS200 TZ200 is a complete guide to the use of the Panasonic Lumix DMC ZS200 camera which is known as the TZ200 in areas outside the United States The book shows beginning and intermediate photographers how to capture excellent images and video sequences with the ZS200 The book explains the use of autofocus manual focus aperture shutter speed exposure compensation white balance and ISO and many other settings The book discusses the camera's options for playback setup and customizing the operation of its controls The book contains more than 480 color photographs showing the camera's controls display screens and menus The book includes photographs taken using the many creative settings of the camera including the Photo Style settings the Creative Control mode picture effects which provide the ability to customize the appearance of images in dramatic ways and the camera's features for burst shooting and shooting in high contrast lighting conditions The book explains how to use the ZS200 s innovative features such as Light Composition and Sequence Composition which enable the creation of multiple exposures of scenes with bright flashes such as fireworks or motions such as sports events The book includes a full discussion of the video recording abilities of the ZS200 camera which offers manual control of exposure and focus during movie recording and provides ultra high definition 4K recording of motion pictures The book also explains the camera's features for extracting still images from 4K video and using the Post Focus feature to select a sharply focused image after a shooting session In three appendices the book discusses accessories for the ZS200 including cases power supply options and other items and includes a list of websites and other resources for further information The

book includes an appendix with helpful Ouick Tips that explain how to take advantage of the camera's features in the most efficient ways possible Panasonic Lumix Tz100: An Easy Guide to the Best Features Bill Stonehem, 2016-09-07 The Panasonic Lumix TZ100 camera is the latest digital release by the tech giants The newest model is a compact long range camera that has been lauded for its enhancement of earlier models in the same line and is said to be the replacement for the FZ1000 The Panasonic Lumix TZ100 or the DMC TZ100EB as it is also known was released in early 2016 and according to reviews has also continued the trend of versatility while still maintaining the need to appeal to the photography professional The TZ100 camera is equipped with a twelve 12 megapixel 1 inch BSI CMOS sensor a three inch OLED display a 1 2M dot electronic Live viewfinder LVF a 25 600 millimetre equivalent F2 8 5 9 lens and 4K photo and UHD video capture support Users of the new camera will also be able to enjoy the built in Wi Fi feature Post Focus Defocus Auto Focus Exposure and Scenic modes as well as a built in orientation sensor Photographer's Guide to the Panasonic ZS100/TZ100 Alexander S. White, 2016-06-06 Guide Book for Panasonic Lumix DMC ZS100 digital camera **Video Motion Detection and Tracking for Surveillance Applications** Joey Quevillon, 2012 These days video surveillance is an important security asset to control theft trespassing or traffic monitoring for any physical systems whether personal or commercial Implementing a surveillance system can allow people to get an idea of what is going on without the physical need to be there In the classical video surveillance installations there is a need for a human operator to consistently watch the video feed to see if there is any interesting activity An intelligent computer vision based motion detector eliminates the need for constant surveillance by an operator by notifying an interested party that there is relevant motion in the area being monitored Pan tilt zoom PTZ cameras can be used to track an object of interest moving throughout a scene However in classic systems this again would require the operator to manually move the PTZ camera to get the subject in scope The goal of this work is to eliminate the operator from controlling the system With the proposed automated tracking approach an object found in a scene can be tracked automatically and followed until the target is out of camera scope PANASONIC DIGITAL VIDEO CAMERA NV-GS330 Photographer's Guide to the Panasonic Lumix LX100 Alexander S. White, 2015-01-06 With the release of PANASONIC., this guide book for the Panasonic Lumix DMC LX100 camera White Knight Press has provided users with a complete guide to all operations of this advanced compact camera Using a tutorial like approach the book provides guidance to beginning and intermediate photographers about how to accomplish things with the LX100 with tips about when and why to use the camera s many controls menus options and other features The book provides details about the camera s controls for autofocus manual focus aperture shutter speed exposure compensation white balance and ISO sensitivity as well as many other settings The book also provides details about the camera's numerous options for playback setup and customizing the operation of the various buttons and other controls The book contains more than 350 photographs almost all in full color illustrating the LX100 s controls display screens and menus The images also provide examples of the photographs that can be taken using

the many creative settings of the camera including the Photo Style settings which let the photographer alter the color processing as well as contrast sharpness and noise reduction for images the Intelligent Auto shooting mode with scene detection optimized for various subjects including landscapes portraits and sunsets the Filter button picture effects which provide the ability to customize the appearance of images in dramatic ways and the camera's strong array of features for continuous shooting and shooting in high contrast lighting conditions. The book also includes a full discussion of the video recording abilities of the LX100 which offers manual control of exposure and focus during movie recording and which provides ultra high definition 4K recording of motion pictures In three appendices the book provides information about accessories for the LX100 including cases external flash units and other items and includes a list of web sites and other resources for further information The book includes an appendix with helpful Quick Tips that explain how to take advantage of the camera's features in the most efficient ways possible Automated Surveillance Systems with Multi-camera and Robotic Platforms Chung Hao Chen, 2009 This dissertation addresses automated surveillance systems focusing on four topics 1 spatial mappings of omnidirectional and PTZ cameras and PTZ and PTZ cameras 2 target hopping application for dual camera systems 3 camera handoff and placement 4 the mobile tracking platform The four topics represent four contributions in this dissertation Dual camera systems have been widely used in surveillance because of the ability to explore the wide field of view FOV of the omnidirectional camera and the wide zoom range of the PTZ camera Most existing algorithms require a priori knowledge of the projection models of omnidirectional and PTZ cameras to solve the spatial mapping between any two cameras The proposed methods not only improve the mapping accuracy by reducing the dependence on the knowledge of the projection model but also improved flexibility in adjusting to varying system configurations. The omnidirectional camera is capable of multi object tracking while the PTZ camera is able to track one individual target at one time to maintain the required resolution It becomes necessary for the PTZ camera to distribute its observation time among multiple objects and visit them in sequence In comparison with the sequential visiting and nearest neighbor methods the proposed adaptive algorithm requires less computational and visiting time Tracking with multiple cameras is mainly the consistent labeling or camera handoff problem An automatic calibration procedure combined with Wilcoxon Signed Rank Test is proposed to solve the consistent labeling problem Meanwhile we introduce an additional constraint to search for optimal cameras overlapped field of views FOVs and resource management approach to improve camera handoff performance Experiments show that our proposed camera handoff and placement can outperform existing approaches However in the majority of surveillance systems their cameras are stationary These stationary systems often require the desired object to stay within the surveillance range of the system Thus the robotic platform we propose uses a visual camera to sense the movement of the desired object and a range sensor to help the robot detect and then avoid obstacles in real time while continuing to track and follow the desired object Experiment shows this robotic and intelligent system can fulfill the requirements of tracking an object and

avoiding obstacles simultaneously when the object moves in speed of 4 km hr  $\,$ 

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