PAJ7025R2 Sample Kit (CDC)
Multiple Objects Tracking Sensor

Paj7025r2 Multiple Objects Tracking Sensor Module

Muhannad Khaled Al-Hajri

Paj7025r2 Multiple Objects Tracking Sensor Module:

Multi-object Detection and Tracking in Sensor Networks and Video Sequences Guohua Ren,2017 Firstly the problem of tracking multiple objects using observations acquired at spatially scattered sensors is considered here Sensors are measuring a sort of signal attenuation from the present targets sources Multiple moving targets may die and be born at some point of the monitored period while the states of the sources e g temperature of a fire source CO CO_2 density of gas source are also changing with time In the case of targets tracking radar signals sent out by sensors and later bounced back from the surface of the targets are measured at sensors and the task is to find out the true position velocity information hidden in the sensor measurements While in the scenario where sources are present in the sensed field the aforementioned signal attenuation is generally not available so the task is to estimate the states of the corresponding sources and in the meanwhile recovering the unknown sensing observation matrix Concretely in this thesis a framework is put forth where norm one regularized factorization is employed to decompose the sensor observation data covariance matrix into sparse factors whose support facilitates recovery of sensors that acquire informative measurements about the targets This novel sensors to targets association scheme is integrated with pariticle filtering mechanisms to perform accurate tracking Precisely distributed optimization techniques are employed to associate targets with sensors and Kalman particle filtering is integrated to perform target tracking using only the sensors selected by the sparse decomposition scheme Different from existing alternatives the novel algorithm can efficiently track and associate targets with sensors even in noisy settings As for the multi source tracking scenario two different sensing architectures are studied i A fusion center based topology where sensors have a limited power budget and ii an ad hoc architecture where sensors collaborate with neighboring nodes enabling in network processing A novel source to sensor association scheme and tracking is introduced by enhancing the standard Kalman filtering minimization formulation with normone regularization terms In the fusion based topology a pertinent transmission power constraint is introduced while coordinate descent techniques are employed to recover the unknown sparse observation matrix select pertinent sensors and subsequently track the source states In the ad hoc topology the centralized minimization problem is written in a separable way and the alternating direction method of multipliers is utilized to construct an in network algorithmic tracking and association framework The problem of distributed tracking of multiple targets is tackled by exploiting sensor mobility and the presence of sparsity in the sensor data covariance matrix Sparse matrix decomposition relying on norm one two regularization is integrated with a kinematic framework to identify informative sensors associate them with the targets and enable them to follow closely the moving targets Coordinate descent techniques are employed to determine in a distributed way the target informative sensors while the modified barrier method is employed to minimize proper error covariance matrices acquired by extended Kalman filtering Different from existing approaches which force all sensors to move here local updating recursive rules are obtained only for the target informative sensors that can update their

location and follow closely the corresponding targets while staying connected Lastly we extend out tracking scheme to tackle the problem of tracking multiple objects in a sequence of frames video The task of identifying objects is formulated as the process of factorizing a properly defined kernel covariance matrix into sparse factors The support of these factors will point to the indices of the pixels that form each object A coordinate descent approach is utilized to determine the sparse factors and extract the object pixels A centroid pixel is estimated for each object which is subsequently tracked via Kalman filtering A novel interplay between the sparse kernel covariance factorization scheme along with Kalman filtering is proposed to enable joint object detection and tracking while a divide and conquer strategy is put forth to reduce computational complexity and enable real time tracking Extensive numerical tests on both synthetic data and thermal video sequences demonstrate the effectiveness of the novel approach and superior tracking performance compared to existing alternatives

Object Tracking Sensor Networks Using Sequential Patterns in an Energy Efficient Prediction Technique Muhannad Khaled Al-Hajri,2010 **Distributed Multi-target Tracking in a Wireless Sensor Network Using Diffusion Strategies and Adaptive Combiners** Jaume Anguera-Peris,2016 Wireless sensor networks WSN have been attracting attention over the past years owing to their capability to observe the environment process the data and make decisions These features have gained importance in the context of object detection and localization surveillance and environmental monitoring Specifically there is an ongoing trend of solving these problems in a distributed manner i e without the use of a central node controlling all the data generated and exchanged over the network This project presents an algorithm for tracking multiple objects in a distributed manner using a wireless sensor network In addition to the objects locations the strength of the field that they generate is considered as an unknown parameter to be estimated The proposed algorithm is based on a diffusion cooperation scheme which has been shown to provide good performance in distributed implementations Our algorithm is based on explicit non linear tracking and as such is not restricted to a pre specified quantization grid in space We allow for imperfect communication links where information packets can be lost and rely on an efficient adaptive combination strategy to improve robust ness to node and link failures Performance is analyzed in terms of the mean squared error MSE as a function of the signal to noise ratio SNR in situations with different number of objects moving across the field and different probability of packet loss

Unveiling the Power of Verbal Artistry: An Mental Sojourn through **Paj7025r2 Multiple Objects Tracking Sensor Module**

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