

Novel Approach on Video Analytics with Variant Ways

Divya B M¹, Dr. Ravikumar G K^{2,3} Bhavya B M^{*4} Kavya B M^{*}

¹Research student , BGSIT, Dept of computer Science & Engineering Department,

² Research Scholar ,Professor, Dept of Computer Science &Engineering,
BGSIT, B G nagar, Mandya, India.

³ Asst.Professor. Dept. Of M.C.A, PES College of Engineering ,Mandya

⁴ Asst.Professor, Dept. Of Civil engineerin, BGSIT, B G NAGAR

Abstract

Trafficking is not only the iteration of data transport in network. We need to think of layman life way as vehicle transmission. Focusing with the point, the handiness of many technique and tools to avoid and monitor the flow. And make route for the smooth flow without accidents and mess-up action. As well points like weather forecasting, and major accident zone or areas. While using of GPS. We need to be up to date with the feed of data. We have self driven car called ALVINN, which works by artificial neural network (ANN). To Map the Conditional Random Field (CRF) to find this we using (DTW) Dynamic Time wrapping .All this OAM has to be considered. Here in this paper we made a small survey on available tools and methods like Tensor flow that we have as to state our plan of research methodology we have intact.

Keywords: OAM, GPS, CRF, DTW, Tensor-flow.

I. INTRODUCTION

Tracing the activity of an object in still position is easier but if it is in motion means its bit hectic. Hence it has to be traced for each moment or action for each interval of seconds to be measured for the accuracy of result to be drawn at once. Means checking the status of still photography is bit cushy compared to video or motion pictures. In the earlier days of motion picture it was with slow motion because to take care of the quality of film or picture, from the rays of daylight and its zooming clarity which reduce the opacity of picture.

In the days of First World War it was too feverish due to sudden change in environmental changes. Like cloudy, rainy, drizzling, fog, smog, etc. As per the quality of picture is a concern. In a way of thinking of Today's traffic control just imagine the force they running on the board. So, our approach is to drive a feature of extraction of the flow and analysis of traffic surveillance using data mining concept. The flow concept is to measure the distance between the cluster of data, where its flow is, because monitoring the each field using motion or colouring feature as a concept to identify the traffic strength. To encounter the deviation they taking or to guide the deviation needed for them to take. Considering a simple Town as an Example we can think in a peak time like Fairs or any festivals like celebrations there is a walloping of data for manual tracing is available for our study. Because we need to take the spatial and temporal sequence of flow of each data.

II. SURVEIL WORK OF TRAFFIC

First question arises when we read about of this concept is why we need to take care of each flow that to for vehicle flow. The answer hers is, it may be for Vehicles transported on the road for the survey of Patrol, which helps them to trace the accident Zones in common, Heavy or Light vehicle transport areas means can we migrate the transportation mode to set for the Metro area for by pass survey. Second is for the major help is for the Maps like Google maps, Safari, etc., here they will update each and a fraction of seconds view of a connected graph of a city traffic where each node is connected to each other. In this banging of vehicles we have to trace the vehicle which skip the signal or which took a wrong deviation or which leading us to mis-interrupt the flow say in the case of customs related cases as an example.

For this we have particle video, dense point trajectories which effectively focus on long-term Movements of videos. It focus with Rich texture of each frame to frame will be captured for analysis. If an Example of trace a particular element each frame captured will be simultaneously compared with each connected flow. For measurement of distance we DTW [1], that sense as dynamic Time wrapping. Where it finds a mapping of points for two sequences for similar actions to check the mapping criteria is satisfied in wide or not .The flight is for the analysis of motion by Morris et al., [7, 8] as per this concept the different behavioural types in surveillance video in the clustered data sets as been experimented with DTW, PCA, Hausdroff etc., methodologies with the conclusion of the better approach of wrapping is done.

As of the dominant flow directing the common path traversed in the video will give a comparative statement of centrifuged view of camera focus point to compare the partial flow of traversed path. This gives the ideology to which point we need to concentrate.

In the scenario of metro areas they planned for creating the virtual network topology (VNT) [2] for data analytics of traffic prediction (VENTURE) hence it reconfigures Predicted traffic for current and traffic volume with direction based on VNT. Reconfiguring this path will be monitored by VNTM for reconfiguring of on-demand

VNT. Here its data collection and transmission is done by IP/MPLS routers for connection through vlinks. Hence they cope up for off-net traffic forecast. That transmission will be by packet by packet transmission with labelling for each new switched path to be established on traffic engineering database (TED) to calculate and make a path for each iteration. All these operations, administration and maintenance (OAM) is encountered each flow is going to take care by this with guidelines to each notification for rerouting or path allocation in a reactive manner [2,4 as9].

Using ANN (artificial Neural network) for the supplement of inputs to the VNT based on prediction of path relocation in VENTURE problem solving. As well in big data network manager architecture for the benefit of VNT for adopting the prediction of path by the application of data analytics for Monitoring. With this concentrating on the recording or record holding capacity to reduce the burden of this the planning of constant amount of feedback when required as per the request allocation. If it reached the threshold level planning for reutilising available path if possible, if not think of parallel light path configuration will be done by vlink setup as per IP address of nodes connected. If new link is created to avoid the confusion Renaming of Old one with the same ideology of existing one which increased the capacity of existing links.

So for this OD will be revisited each time with monitoring the details added in the network. where prediction module based on machine learning techniques generates the OD traffic for future estimation to decide is it needed to reset the path for rerouting or not. So, Once the procedure is over then the local Search method will be executed because to aim the local minimum path. As well which gives the minimal solution that one will be finalised. This is to reduce the count of transponders during the construction; hence from this only we can calculate the max transmission from source to destiny which is dedicated for each node of transmission. This will be deactivated in low Traffic time, hence to avoid the increase in energy consumption and making a path for light paths to reduce the cost of rerouting with minimal path establishment ideology.

Prediction of each path is by the learning method of predictive analytics. this method is used in Video-Watching behaviour in MOOC's [4], here in this concept the videos of many streams like education, tutorials courses, techniques and tools, social, economical and lay man usage data's flow is there in the stream. In the Online course segment [3] the user active or inactive nature has to be surveyed once for the prediction of the accuracy of data set needed in stream. As the user or human brain interaction for each set means one slot of complete video viewing time will be calculated. Because if their ten minute of video stream is playing then moreover the user may concentrate of seven to eight minutes in rare case where as five to six minutes in usual routine.

The user or human interaction with the online video his liking hit list, mode of interaction like continuous play or often and often viewing of continuous or same video may be depend on the viewer choice. But by having a keen observation on the usage of each course it will be rated and of needed of manipulation of data if needed will be suggested. This suggestion is based the average view ratio of time versus

video content observation. This observation will lead to the average set of data used by the user or human utilization. Learning of such behaviour will lead to predict the case of number of play or pause of the video basis. Especially in MOOCs (Massive Open Online Courses). Because priority of video selected for their references may vary from person to person. In that Research work they took the count of number pausing, rewinds, Fast forwards, the time limit of play and pause etc., considered has a point of consideration. From this we can take a count of video used for the interaction with its associated actions is taken as a counterpart. It is useful to trace the vehicles actions simultaneously or sequent if needed for keep observation. The main thing to think is accounting the particle or particular data in dataset in of clusters of videos and movements in those video has to be with similar markings with measurable points of the target should be there .

We have an ideology is edge computing for real-time video analytics [5]. Taking an example of pedestrian, cross walks path, double side parking of vehicles slot with Turns like U-turn, V-turn, two ways cross of vehicle. All has to be considered before planting of cameras. Coming to the point of cameras. We have many advanced features like smart cameras, which detects the distance of object it passed form it vision. These also survey the points on sudden change in the scenario other than regular or daily routine, distance between the object which overruled the rules of traffic nature to be founded instantly as well sending an warning message to corresponding person could be done as a criteria but letting it aside now. We need to thought a plan for self driving cars, self parking means GPS enabled parking slots, Personal digital assistants which guide us in the novice areas details to travel or parking or shopping and all. In some of the private sectors they maintaining their own devices like cameras, cloud storage to analyse, decode and detect objects and perform different sets of testing on the target object with its own set rules of checking the video accuracy like Microsoft Azure for many Organization having a help form it. Which concludes the differentiation between the clusters of data and corresponding action to be taken for those processing in nature is to be done. The various types of hardwires for clouds is FPGA's, ASIC's and Cameras of IP-enabled with min of 250fps to 600fps with very good machine vision character. The red light cameras at the same interactions for with or without red light violations of vehicle running on the way. Which make us the way to make good pavements from the review of many drivers and conditions of road status.

In most of the cases the differences between clusters like its uplink and downlink bandwidth for immediate action taking on the particular video analysis. Because we are not with that much of sufficient cloud storage for those streaming video with high resolution. These because of insufficient or low maintenance of those video from cloud maintaining layer. This will cause a major problem for the decoder of a particular video or object in the video with predefined interfaced to collect and to implement the process events on them to draw the accurate results from these set of data. In the application layer of process we need track about the system details which of monitoring the system information means CPU, Memory, allocated modules to each system or processor, is it with Standard OS mechanism, or it own Mechanism to

be followed if yes is it abide to governed by the Govt. Of the local areas rules and regulations or not. In 2015 We with Visual Object Tracking (VOT) as asset of rule with one frame per second in eight crore machine where each with 30 frames for one second frame rate. Because gigabyte of data are ain the stream with yottabytes of transmission in network, so, thinking about the vision parameters of frame resolution, frame sampling, and which type of algorithm is following for which parameters its relationship in action of the data for resource accuracy profile metering for canonical object tracker processing video with tracking speed is all to be considered. With this we have to think of prediction based algorithm to predict and analyse the situation or flow of the vehicles in the network is tracked for the object finding in the cluster of data available is the main task with wired or wireless connection data transmission. To maintain the orientation, resolution, and soar nature of the image should not affect on our process. Traffic systems has to cope up to show case the data of regular movements, set of restricted movements sets, which lead us to learn the parameters of study for our training data up gradation list or scenario. Especially in the edge referencing of the picture of frame the camera should support for each pixel , hence there will be reduce in the picture quality. In the general scenario the real-time systems are with augmented reality will suffer from delay tolerance .if processing is done it the latency can be in peak as we expected especially in deep vision processing. As the task of traffic monitoring is became a multimodal task in the nowadays criteria hence in the growth of population with vehicles numbers and transportation's

CONCLUSION

The action to find the Motion in Vehicles traffic is the keen Observation task. Where each single or minute change can make a big disaster in the action. Like they may strike at mid or hazards like accidents. Using many techniques as well the possibilities of utilising the algorithms we are within hand to make the clear picture of Data (vehicle) movement made clear with locomotive action towards soft driving with clear idea to self driven Vehicle like Alvin can be with clear ideas. It's a Glimpse of travel towards the traffic analysis.

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ABOUT THE AUTHOR

Divya B M , working as Asst.Professor, Dept. Computer Science & Engineering. BGSIT , BG NAGAR, MANDYA. Her Field Of Interest Data Mining, Clustering , Machine Learning .Doing Research On Traffic Maintenance And Its Hazards.

Dr. Ravikumar G K, Professor and Head of R&D Dept. in BGSIT, BG NAGAR, MANDYA. Presently Guiding 5 Research Students . His Field Of Interest Data Mining, Cloud Computing, Big Data, Machine Learning, Iot And Current Trends.

Bhavya B M , Asst. Professor. Dept of MCA, PESCE mandya, she guided many students with current trend and technology in their project handling . her field of interest IoT, Big Data., Data Mining.

Kavya B M, Asst Professor, Dept. Of civil engineering , guided 20 plus students for project , interested fields , highway, hydraulics, transportation. With good number of publication.