Kelwert Nuval Netwooks.

Recurrent Neuval netwoods (RNN). au. a deep least 1919 Stoutegy for modeling dequental data. RNNs our the succommendation for coorling with sequential data. A deap feed forward model for sequence may need specific parameters for Each Element of the sequence. It may not be able to generalize to sequina af rourable lengths.

A ruccelful astocategy for clouding with sequential data whould solded their things.

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Ability to model variable length sequences without very warry additional, parameters that depend on the sequence of lungth.

= (2) Capacity to outpect element orcheving.

-) Use of RNN in dutonomous during.

with the help of the Radon and Irdan sensors we Collect the golound touth data to tolain the model. the comora domain to label comora images with sullouty data. This lets us exploit own-unjor fusion to busto an automated data pipeline that generated quound fouth information for RNN toraining. The RNN output CONIITS of time-to-time colluion (TTC), future position and fetwer relately productions for each dynamic object detected in the scene- (e.g. cary end redetermine). The south are very weful to provide information for contoiol function in an autonomous Keticly.

Use of LSTM in Autonomous during.

A clone eletection method that combined convolutional newal networks (CNN) and long-short-time memory naval networks (LSTM) is proposed to Entoract Mey features of lone with great acrovery.

(1) J. The video is procused using a feature-based image processing method to Entract hey information of

The lone which is stoned as lakel.

(2) The CNN and the CNN-LSTM models are Established

occipactively.

(3). Therining and thething are operated on step(2) mentioned model ceving the image and Jahl obtained in step(1).

(4). Multi resistion of prained model is operated with

row violens.

Use of Gosted receivement units (420) in autonomous sehecles. for autonomous repriety road segmentation is a funda-- mental just mat can perovide the dollucceble. area for path planning. A CNN-4RU model is recopered and forcined to perform aload signantation using data continued by the front comme of a reticle. GRU networks Objevin a long spectial sequence with lower computational Complementy, composition