i) Depth bornes consist of a set of depth variations that explains scene Jeometric viriation.

i) Descriptor map is used as descriptors in puir-wise feature matching that we involved in the reprojection factor and spense matched scometry

i) feartre map set is used for the computation of the feature metric Santor because illumination varies from same viewpoint in RCIB from endo light

Sentre map save as Lepth Hetur except for two output 1) H. H for brunches.

.) Video L) video sequen is of 800 video frames

2) Estimutes carriera trajectory and dense geomety per key frame

) Iruga prof Selected

3) loop dosere [explain]

4) After SLAM run finishes a covers pore aid a derre desta estinde per key grave will be produced

to got Lind Sertene recon 5) Den dipth Surion + Surface reon

6) All test cases not baining

1) left is endorupe blunk right is recon

Table I Tain on all mosels except lister these text OND

(ATE = absolute trajectory error = quentities whole trajectory over a frame in terral

on

(RPE = relative pose error = local accord of trajectory over a frame in terral

texformed

(RPE = relative pose error = local accord of trajectory over a frame in terral

from trajectory o

Bon = Day of words

) Impe poir selected so GiT ratio of scere overlap is leger the 0-6.

1) Training procedure:

1) Each iter 3 try used Some, tirget, for.

r) factor Design:

outor Nesign:
1) feature Metric factor (FM): Processed to Som a gaussian pyramid to Increse convergere basin.

Description may "the relation of description in particular teader what chiring

lind in married in the superiord in mader and spine stadeled grandling

season versions.

2) Sporse Matched Creonety Soutor (SMG): Only FM makes conveyed bein smell. Less ambigus them 2D filtery based on episoder geomety

.) Module Design

Cam Truling: Treat son frame to reference (spatially client) based on appearance com LM used to some Tight proce featur FM+ RP

Kezfrare Creation: Ambigas scale so chech if how recht for each leg frame "boy of work" created from descriptor mup and added to a database for global loop indexing dester becom pairnite Souters involved FM, GC.

Mapping: ISAM 2 [bayes, bel]. The South groph consisting of principle and prive factors from al lay barres is optimised in this module

loup closure: total loop bused on Selected local connection is linked with pair nise fautors same as temporal connections.

Craph optim terminates it was number of item reached.

1) Wiki example of (Ku-): un decomposet in factors Training requites G. T of relative comesa pose, intrinsing, video most, Lenge Lepth map. log detection veridication

1) Local loop: Filtering Conditate Keyfrane pairs based on spatial distance appennel ver (featse meth inte [performed in small temperal

2) Orlobal logs: uses Bon for læyfraves and same or boal logs [feature match inlier ratio]

(Summy)

1) Network trains fore seperately and then employed after sufficient trains and good results

2) Traing again with objective of pair wise image alogument.

R. R lors [Relative Respone Loss]