	Integrating Millimiter Wave Radas with
	Monocular Vaion Senson for on-Road Charlack
-	
	Detection_Applicationy
67	proposed fersion Approach
	Proposed Ferrion Approach.
	To be all the state of the stat
	Tuson Schence of MMnl Radag and a monocerlag vision Sensol.
13.17	residency vision servey.
hus	Raday->!
1 1194	Point > Region Peaching - Real Chil
	Alianment for longet steller-acle
	Varion > Leleihon
07.	to this itilis, sound nowhere of the
-	Place parameter subscriber
	Radar-Canusa Coordinate Calibration
	Xr, Yr, Zr -> MMW Raday Coold.
	Xc, Yc, Zc -> Camera Co-ord
	U,V -> Emage Corold.
	8 -> Range of targets in the saday Coordination
	d -> azimetho of taget point.
	La Smage
	Vc : Smage plane.
	Cu, VI) u
`~	Camera X
`	26
	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\
	Padal, C
	XT
-	
k	Saannad by CamSaannar

	Transformation orelation of Raday Just Eurage Coroid frame
	Eurage Coroid. France
	120
	10 tu t12 t13 8-8.8 01 V = t21 t22 t21 8- cos ol.
200	V= t21 t22 t21 18- cos d.
	Let at tex tes 1
	Transformation materia (4)
	C. P. Italy of T. I into
	6 parameter of (rans pounation Malen
	6 Parameters of Transpouriation maters Con be Solved Theorigh pollowing Colculation.
	Cosecicalion.
	Lot.
	Tê = [ti, tiz tis],
	v= [Wiellz Un];
1.9	V= [Vn V2
	Inx1=[1]' and.
	P = [7/2" 4x' 1.7
	and low with at soin is how in
	Carrilles in addition direction the first day
p.E.	n= number of aliqued Points.
	(7/8, 45) J=1,2-n (n>4) -> Portion
	of the aligned point in oraday coold.
1 1 1	
3	The = [Ti To To To To Sofained fleeough
	linear levil Equare method.



	7
6	b) Condidate region for 2-torget detection
	Directly Williams on the
6.12	12.10 Paris 12.12 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
	E. Decomfose. R2
	Delistates.
	Tr
	Carpi vicini
top's	and the fact of the King
	Car all I de la
	UIV-> Padas - Comera aliqued (colibrates)
· (a)	pout.
-	C-flegion> Condidate sugion for potential object. detection.
1	Object delection.
	[\we [1. 4+W/2], Le [1, V+H/2]
	C-Region = 1 4 U = W/2:, V = +1/2
Service Control	C- Region = 1
	IN FT1, U+W/2] 10 F (1/- +1/2 +17
	\(\telle{\pi} \) \(\
	$ \hat{W} \in [u - W/2, W], \hat{W} \in [1, V+ H/2]$ $ \hat{Y} = \hat{W} = \hat$
	y 4> W/2, V = H/2
16	WE Cu-W/2, WJ, GETV-H/2, H]
	else.
	W, H- Total width & height of ponel
	Emage:
	V



