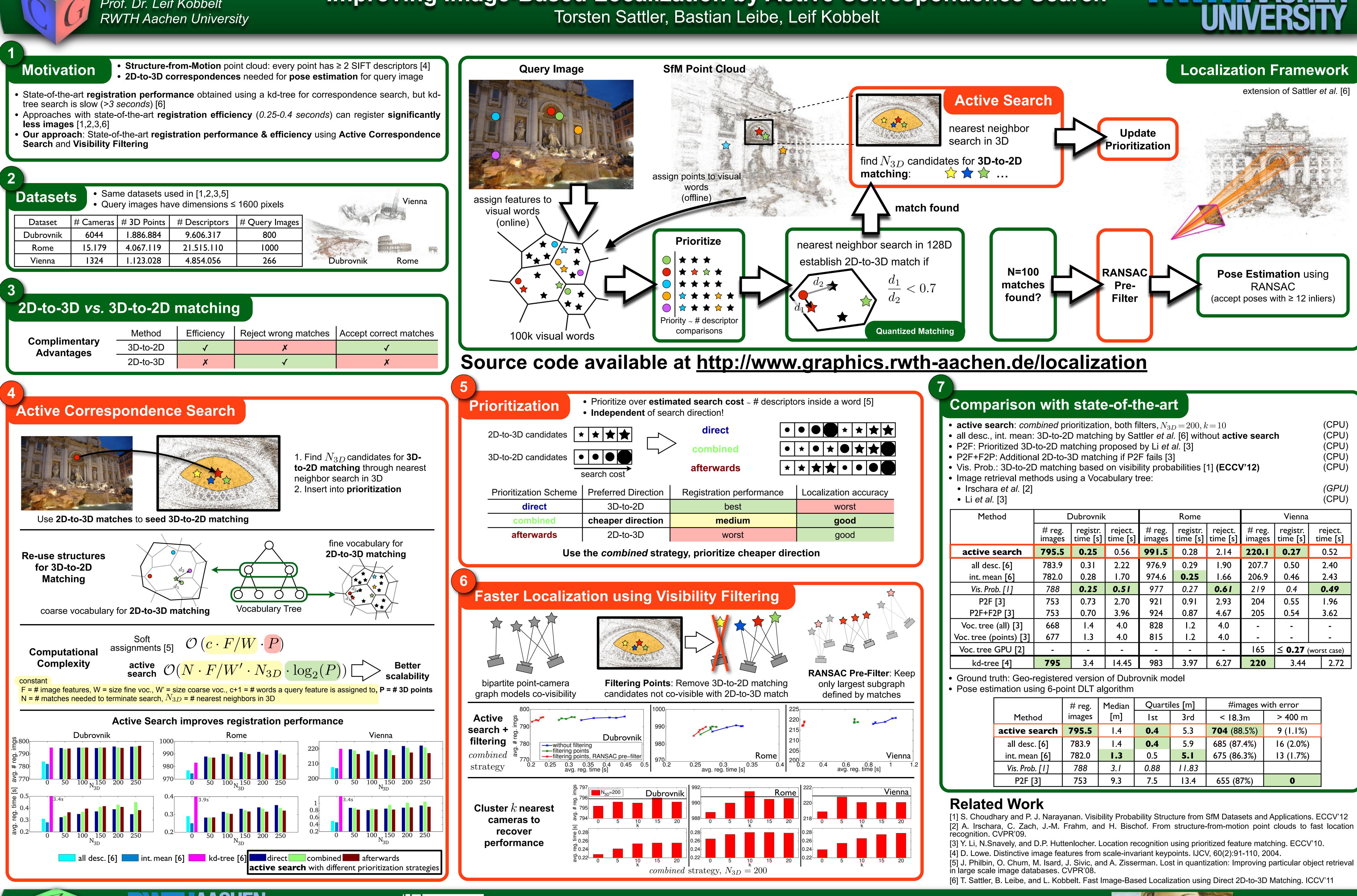
# Computer Graphics & Multimedia Prof. Dr. Leif Kobbelt

- tree search is slow (>3 seconds) [6]
- less images [1,2,3,6]
- Search and Visibility Filtering

2	Dataset					
	Dataset	# Cameras	# 3D Points	# Descriptors	# Query Images	
	Dubrovnik	6044	I.886.884	9.606.317	800	
	Rome	15.179	4.067.119	21.515.110	1000	A CONTRACT
	Vienna	1324	1.123.028	4.854.056	266	Dubrovnil

	Method	Efficiency	ciency Reject wrong matches Ac	Accep
Complimentary Advantages	3D-to-2D	$\checkmark$	×	
Advantages	2D-to-3D	×	$\checkmark$	

UNIVERSITY



# Improving Image-Based Localization by Active Correspondence Search

**Unic** Ultra High-Speed Mobile Information and Communication

								(CPU)
ik		Rome			Vienna			
: ]	reject. time [s]	# reg. images	registr. time [s]	reject. time [s]	# reg. images	registr. time [s]		reject. me [s]
	0.56	991.5	0.28	2.14	220.1	0.27		0.52
	2.22	976.9	0.29	1.90	207.7	0.50		2.40
	I.70	974.6	0.25	l.66	206.9	0.46		2.43
	0.51	977	0.27	0.61	219	0.4		0.49
	2.70	921	0.91	2.93	204	0.55		1.96
	3.96	924	0.87	4.67	205	0.54		3.62
	4.0	828	1.2	4.0	-	-		-
	4.0	815	1.2	4.0	-	-		-
	-	-	-	-	165	≤ 0.27	(wor	st case)
	14.45	983	3.97	6.27	220	3.44		2.72

Igorithm			
Madian			

Median	Quartiles [m]		#images with error	
[m]	lst	3rd	< 18.3m	> 400 m
I.4	0.4	5.3	<b>704</b> (88.5%)	9 (1.1%)
I.4	0.4	5.9	685 (87.4%)	I6 (2.0%)
1.3	0.5	5.1	675 (86.3%)	13 (1.7%)
3.1	0.88	11.83		
9.3	7.5	13.4	655 (87%)	0

ECCV 2012

