

				Timings			
Author	Method	Simplification	Watertight (FAUST)	Real	Synthetic	FAUST	Language
Giachetti	APT	×	✓	38 s/pm	25 s/pm	40 s/pm	C++
	APT-Trained	×	✓	Training: 10 s			C++
Lai	HKS	×	✓				
	WKS	×	✓				
	SA	×	✓				
	Multi-Feature	×	✓			40 s/pm	
B. Li	Curvature	×	✓	14 s/pm	1 m/pm	4s/pm	
	Geodesic	1,000	✓	51 s/pm	54 s/pm	—	
	Hybrid	1,000	✓	2 m/pm Preprocessing: 13 hours	3 m/pm Preprocessing: 15 hours	—	
	MDS-R	1,000	✓	1 m/pm	1 m/pm	—	
	MDS-ZFDR	1,000	✓	1 m/pm	1 m/pm	—	
C. Li	Spectral Geom.	×	✓	8 s/pm	37 s/pm		Matlab
				Dictionary learning: 45 minutes			
Litman	supDL	4,500	✓				
	UnSup32	4,500	✓				
	softVQ48	4,500	✓				
Pickup	Surface Area	×	✓				Matlab
	Compactness	×	✓				Matlab
	Canonical	×	✓				Matlab, C++
Bu	3DDL	×	✓	10 s/pm	10 s/pm		Matlab, C++
				High-level feature learning: 1 hour			
Tatsuma	BoF-APFH	×	×			4 s/pm	
	MR-BoF-APFH	×	×			Dictionary learning: 78 s	
Ye	R-BiHDM	×	✓				
	R-BiHDM-s	×	✓				
Tam	MRG	×	✓				
	TPR	×	✓				

Table 1 Summary of methods, including details of any mesh simplification, use of watertight meshes for the FAUST dataset, and timing information for preprocessing and computing the model descriptors. Please note that the different methods may have been implemented in different languages and were tested on different hardware, therefore only small differences in timings should be ignored. Key: s = seconds, m = minutes, h = hours, pm = per model.