Examples of software implementing SfM-MVS

Software	url (valid on 17 May, 2014)	Notes
Freely available		
Bundler Photogrammetry Package ^{a, b}	http://blog.neonascent.net/archives/bundler-photogrammetry-package/	Used in James & Robson (2012). Script-based, no graphical user interface (GUI). Windows OS only.
SFMToolkit ^{a, b}	http://www.visual- experiments.com/demos/sfmtoolkit/	Similar software to above.
Python Photogrammetry Toolbox (PPT) ^{a, b}	http://code.google.com/p/osm-bundler/	Formerly OSM-bundler. Python-driven GUI and scripts, with a Linux distribution.
VisualSFM ^b	http://www.cs.washington.edu/homes/ccwu/vsfm/	Advanced GUI with Windows, Linux and Mac. OSX versions. Georeferencing options, but camera model is more restricted than that used in Bundler.
3DF Samantha	http://www.3dflow.net/technology/samantha- structure-from-motion/	SfM only, but with more advanced camera models than all above (Farenzena et al 2009). Provides output compatible with several dense matching algorithms.
Web sites and services		
Photosynth	http://photosynth.net/	Evolved from Bundler. SfM only, no dense reconstruction. Can incorporate a very wide variety of images, but does so at the cost of reconstruction accuracy.
Arc3D	http://www.arc3d.be/	Vergauwen and Van Gool [2006]
CMP SfM Web service ^a Autodesk 123D Catch	http://ptak.felk.cvut.cz/sfmservice/ http://www.123dapp.com/catch/	
Pix4D My3DScanner	http://pix4d.com/ http://www.my3dscanner.com/	Also available as standalone software.
Commercial		
PhotoScan Acute3D	http://www.agisoft.ru/products/photoscan/ http://www.acute3d.com/	Full SfM-MVS-based commercial package.
PhotoModeler	http://www.photomodeler.com/	Software, originally based on close-range
3DF Zephyr Pro	http://www.3dflow.net/	photogrammetry, now also implements SfM. Underlying SfM engine is 3DF Samantha

^a uses Bundler (http://phototour.cs.washington.edu/bundler/) to compute structure from motion

Vergauwen, M. and Van Gool, L. (2006) Web-Based 3D Reconstruction Service, Machine Vision Applications, 17, 411-426.

Farenzena, A. M., Fusiello, A. and Gherardi. R. (2009) Structure-and-Motion Pipeline on a Hierarchical Cluster Tree. Proc.IEEE Int. Workshop on 3-D Digital Imaging and Modeling, Kyoto.

^b uses PMVS2 (http://grail.cs.washington.edu/software/pmvs/) as a dense multi-view matcher