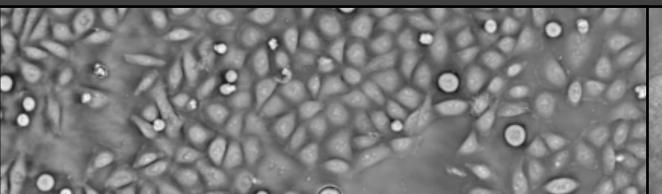
```
for (int yTile = 0; yTile < in.height(); yTile += 32)
   __m128i a, b, c, sum, avg;
   __m128i blurH[(256/8)*(32+2)]; // allocate tile blufor (int xTile = 0; xTile < in.width(); xTile += 25
   __m128i *blurHPtr = blurH;
   for (int y = -1; y < 32+1; y++) {</pre>
```

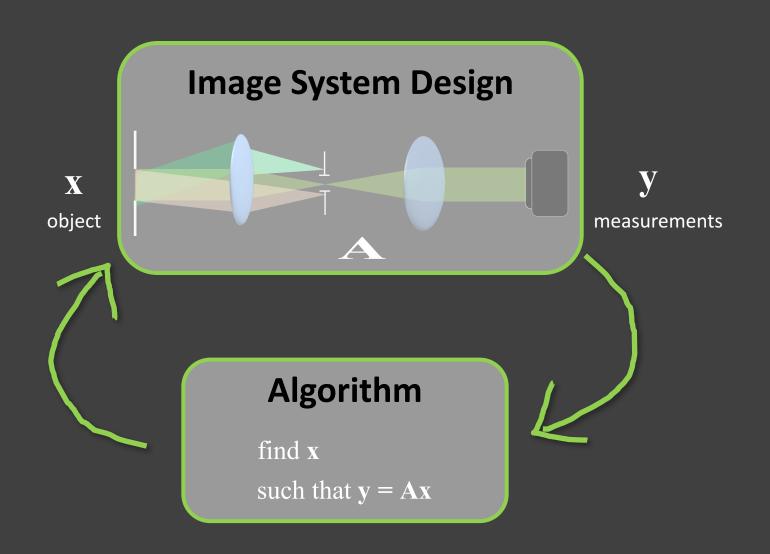
Computational Imaging

2017 EU-US Frontiers of Engineering
Symposium
Anders Bjorholm Dahl
Laura Waller

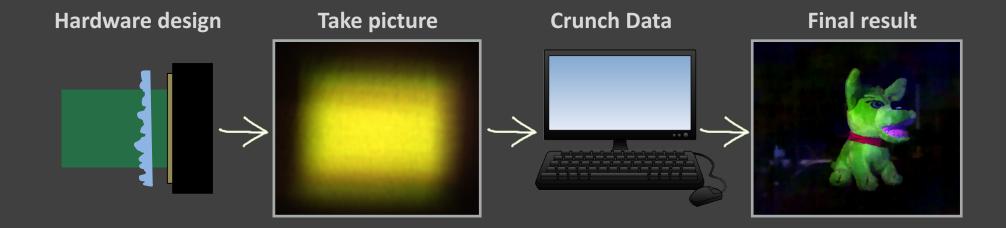




Computational Imaging joint design of hardware and software



Computational imaging pipeline



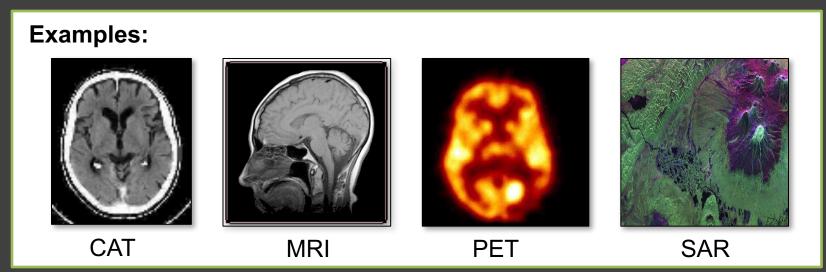
Example: tomography

'tomo' – slice 'graphy' – to write

Want to see 'inside' 3D objects, but it may not be desirable/ethical to slice them into pieces







Speakers

- » Computer Vision and 3D Reconstruction George Vogiatzis, Aston University
- » Light Propagation in Complex Media: From Imaging to Compressive Imaging and Machine Learning Sylvain Gigan, Laboratoire Kastler Brossel
- » Computational MRI Michael Lustig, University of California, Berkeley