# **ICORD: Intelligent Collection of Redundant Data** A Dynamic System for Crowdsourcing Cell Segmentations Accurately and Efficiently







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### Evaluation



Regression model based on	r	$R^2$	MAE
1. Time	0.52	0.29	0.06
<ol><li>Number of clicks</li></ol>	0.59	0.42	0.05
<ol><li>Time per click</li></ol>	0.53	0.24	0.06
4. Only behavioral features	0.52	0.26	0.06
5. Only geometric features	0.66	0.44	0.05
6. Only intensity features	0.73	0.52	0.05
<ol><li>All image features</li></ol>	0.81	0.29	0.06
<ol><li>All features</li></ol>	0.83	0.69	0.04

atures	Train/ Test	r	$R^2$	MAE
nooth	1. PC/PC	0.76	0.58	0.05
	2. Fl / Fl	0.90	0.81	0.02
and	3. PC / Fl	0.54	-0.68	0.12
	4. Fl / PC	0.44	-0.10	0.09
2015]				

and (b) Phase contrast images.



### Acknowledgements

National Science Foundation, Grant IIS-1421943.

### References

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## CVMI @ CVPR 2016

**Conclusion:** ICORD achieves the **same** segmentation quality while **eliminating 50-75%** of resources (budget and time)