

Prof. Olga Veksler



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Olga Veksler: Research Interests

- **Computer Vision** - extract anything useful from images, image sequences, video,... etc.
 - Stereo Correspondence



left image



right image

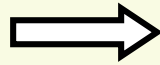
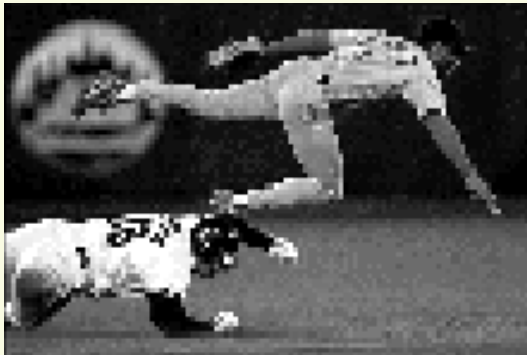
stereo
→



depth

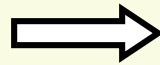
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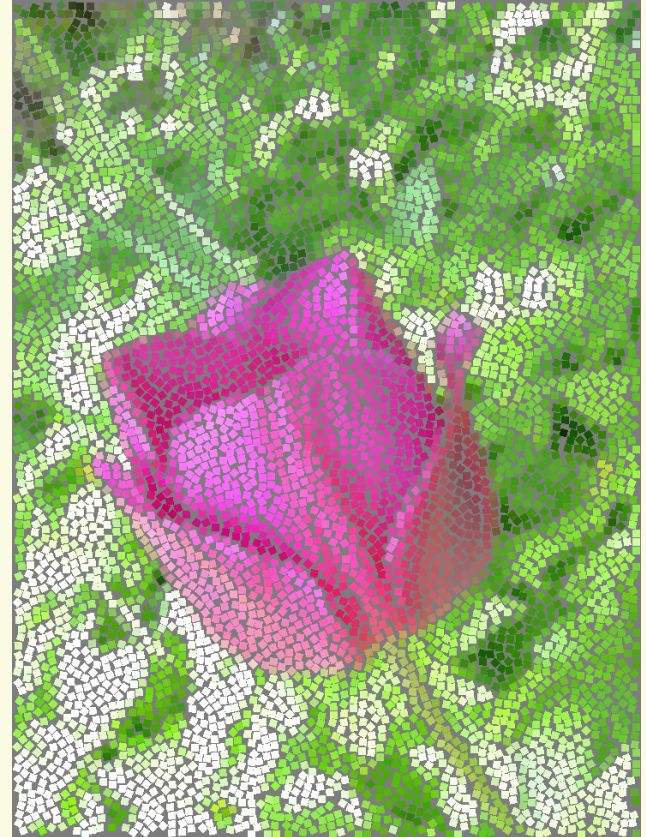
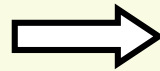
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Olga Veksler: Research Interests

- Computer graphics
 - Digital Art



Olga Veksler: Graduate courses

- Fall: 9840a Learning and Computer Vision
(Not offered in 2017)
- Winter: 9542b/442b Artificial Intelligence II

Fall: 9840a Learning and Computer Vision

(Not offered in 2017)

- Machine Learning techniques that has been useful for Computer vision applications
 - Methods: Linear Classifiers, Neural Networks, SVM, boosting
 - Applications: mostly object recognition, some tracking, segmentation, image inpainting
- No textbook, we will read conference/journal papers
- Occasionally we will use videos
- One project, one paper presentation, in-class project presentation
- Take a look at the last year's course (link from my web page)

Winter: 9542b/442b Artificial Intelligence II

- Topics from
 - Machine Learning (1/3): Linear classifiers, neural networks and performance evaluation and model selection methods
 - Natural Language Processing (1/3): Spelling correction, POS tagging, information retrieval
 - Computer Vision (1/3): Edge detection, segmentation, stereo, convolutional neural networks
- Evaluation (tentative)
 - 3 short quizzes, each worth 18% of the final mark
 - 3 programming assignments, first one worth 16% and the other two are worth 15% each