

## Virginia Estellers – Publications<sup>1</sup>

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- JOURNAL ARTICLES V. Estellers, M.A. Scott, and S. Soatto. [Robust Surface Reconstruction](#) *SIAM Journal on Imaging Sciences*, under review, 2015.
- V. Estellers, and S. Soatto. [Detecting Occlusions as an Inverse Problem](#) *Journal of Mathematical Imaging and Vision*, pp 1–18, 2015.
- V. Estellers, S. Soatto, and X. Bresson. [Adaptive Regularization with the Structure Tensor](#) *IEEE Transactions on Image Processing*, vol.24, no. 6., pp. 1777–1790, 2015
- V. Estellers, J.-P. Thiran, and M. Gabrani. [Surface Reconstruction from Microscopic Images in Optical Lithography](#). *IEEE Transactions on Image Processing*, vol. 23, no.8, pp. 3569–3573, 2014.
- V. Estellers, D. Zosso, X. Bresson, and J.-P. Thiran. [Harmonic Active Contours](#). *IEEE Transactions on Image Processing*, vol.23, no. 1, pp. 69–82, 2014.
- V. Estellers, J.-P. Thiran, and X. Bresson. [Enhanced Compressed Sensing Recovery with Level Set Normals](#). *IEEE Transactions on Image Processing*, vol. 22, no. 7, pp. 2611–2626, 2013.
- V. Estellers, D. Zosso, R. Lai, S. Osher, J.-P. Thiran, and X. Bresson. [An Efficient Algorithm for Level Set Method Preserving Distance Function](#). In *IEEE Transactions on Image Processing*, vol. 21, no. 12, pp. 4722–4734, 2012.
- V. Estellers, M. Gurban, and J.-P. Thiran. [On dynamic stream weighting for Audio-Visual Speech Recognition](#) In *IEEE Transactions on Audio, Speech, and Language Processing*, vol. 20, no. 4, pp. 1145–1157, 2012.
- V. Estellers and J.-P. Thiran. [Multi-pose lipreading and Audio-Visual Speech Recognition](#). In *EURASIP Journal on Advances in Signal Processing*, vol. 2012.
- CONFERENCE ARTICLES V. Estellers, G. Graber, S. Soatto. [Adaptive Multiscale Discretizations for Vision](#) under review for *ECCV*, 2016.
- P. Stanley-Marbell, V. Estellers, M. Rinard. [Crayon: Saving Power through Shape and Color Approximation on Next-Generation Displays](#) *EuroSys*, 2016.
- V. Estellers, M. Scott, and S. Soatto. [Robust Poisson Surface Reconstruction](#) *Scale Space and Variational Methods for Computer Vision*, 2015.
- B. Seguin, V. Estellers, and M. Gabrani. [Estimating Pattern Sensitivity to the Printing Process for Varying Dose/Focus Conditions for RET development in the sub-22nm Era](#). In *SPIE, Metrology, Inspection, and Process Control for Microlithography*, 2014.
- V. Estellers, D. Zosso, X. Bresson, and J.-P. Thiran. [Harmonic Active Contours for multichannel image segmentation](#). In *Proc. IEEE International Conference on Image Processing (ICIP)*, pp. 3141–3144, 2011.
- V. Estellers and J.-P. Thiran. [Multipose Audio-Visual Speech Recognition](#). In *Proc. IEEE European Signal Processing Conference (EUSIPCO)*, pp. 1065–1069, 2011.
- V. Estellers and J.-P. Thiran. [Overcoming Asynchrony in Audio-Visual Speech Recognition](#). In *Proc. IEEE International Workshop on Multimedia Signal Processing (MMSP)*, pp. 466–471, 2010.
- V. Estellers, P. M. Baggenstoss, and J.-P. Thiran. [Class-specific classifiers in audio-visual speech recognition](#). In *Proc. IEEE European Signal Processing Conference (EUSIPCO)*, pp. 1998–2002, 2010.
- V. Estellers, M. Gurban, and J.-P. Thiran. [Selecting relevant visual features for speechreading](#). In *Proc. IEEE International Conference on Image Processing (ICIP)*, pp. 1433–1436, 2009.

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<sup>1</sup>Active links are in blue.

PATENTS

V. Estellers and M. Gabrani. **Contour fitting for automatic SEM filtering of images of integrated circuits.** International patent with IBM, 2013.

D. DeMaris, F. De Morsier, V. Estellers, N. Casatti, M. Gabrani **Layout Assessment Method and System.** International patent with IBM, 2014.