

# Image Reconstructing with genetic Algorithms

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Figure 1: Spring Training 2009, Peoria, AZ.

## Abstract

Abstract

**Keywords:** radiosity, global illumination, constant time

**Concepts:** •Computing methodologies → Image manipulation;  
Computational photography;

Table 1: A simple table.

7C0	hexadecimal
3700	octal
11111000000	binary
1984	decimal

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To Robert, for all the bagels.

## References

- AGARWAL, S., MIERLE, K., AND OTHERS. Ceres solver. <https://code.google.com/p/ceres-solver/>.
- ANONYMOUS, 1976. Planes of the head. <http://www.planesofthehead.com/>.
- FEDKIW, R., STAM, J., AND JENSEN, H. W. 2001. Visual simulation of smoke. In *Proceedings of SIGGRAPH 2001*, ACM Press / ACM SIGGRAPH, E. Fiume, Ed., Computer Graphics Proceedings, Annual Conference Series, ACM, 15–22.

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Figure 2: Ferrari LaFerrari. Image courtesy Flickr user “gfreeman23.”

JOBSON, D. J., RAHMAN, Z., AND WOODELL, G. A. 1995. Retinex image processing: Improved fidelity to direct visual observation. In *Proceedings of the IS&T Fourth Color Imaging Conference: Color Science, Systems, and Applications*, vol. 4, The Society for Imaging Science and Technology, 124–125.

KARTCH, D. 2000. *Efficient Rendering and Compression for Full-Parallax Computer-Generated Holographic Stereograms*. PhD thesis, Cornell University.

LANDIS, H., 2002. Global illumination in production. ACM SIGGRAPH 2002 Course #16 Notes, July.

LEVOY, M., PULLI, K., CURLESS, B., RUSINKIEWICZ, S., KOLLER, D., PEREIRA, L., GINZTON, M., ANDERSON, S., DAVIS, J., GINSBERG, J., SHADE, J., AND FULK, D. 2000. The digital michelangelo project. In *Proceedings of SIGGRAPH 2000*, ACM Press / ACM SIGGRAPH, New York, K. Akeley, Ed., Computer Graphics Proceedings, Annual Conference Series, ACM, 131–144.

PARK, S. W., LINSEN, L., KREYLOS, O., OWENS, J. D., AND HAMANN, B. 2006. Discrete sibson interpolation. *IEEE Transactions on Visualization and Computer Graphics* 12, 2 (Mar./Apr.), 243–253.

PARKE, F. I., AND WATERS, K. 1996. *Computer Facial Animation*. A. K. Peters.

PELLACINI, F., VIDIMČE, K., LEFOHN, A., MOHR, A., LEONE, M., AND WARREN, J. 2005. Lpics: a hybrid hardware-accelerated relighting engine for computer cinematography. *ACM Transactions on Graphics* 24, 3 (Aug.), 464–470.

SAKO, Y., AND FUJIMURA, K. 2000. Shape similarity by homotropic deformation. *The Visual Computer* 16, 1, 47–61.

YEE, Y. L. H. 2000. *Spatiotemporal sensitivity and visual attention for efficient rendering of dynamic environments*. Master's thesis, Cornell University.