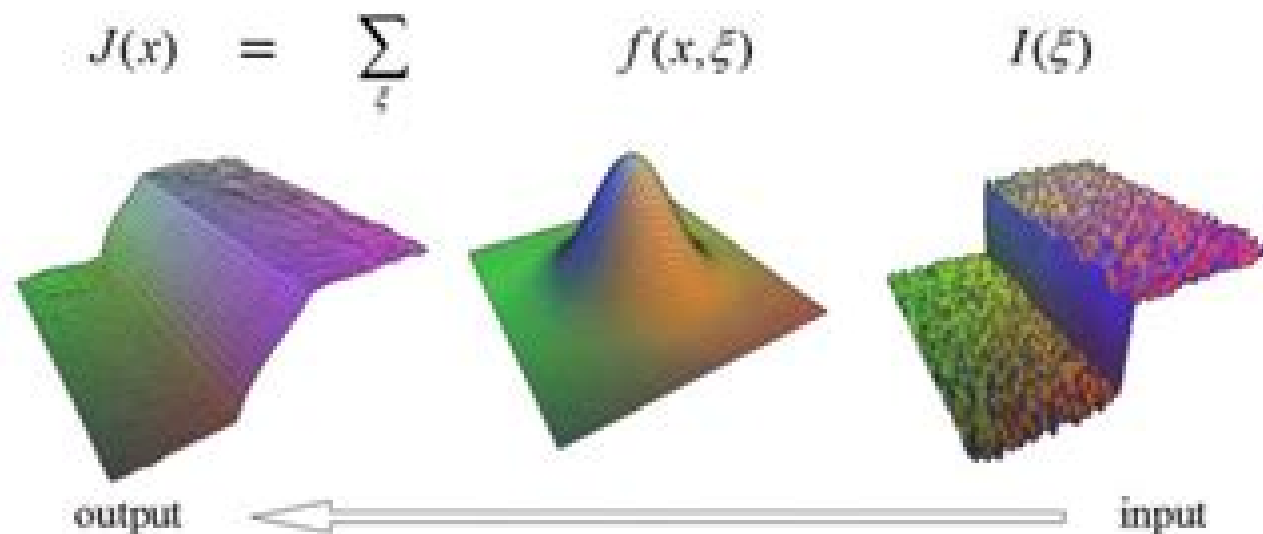


# Recap of Bilateral Filtering

- Naïve image smoothing: Gaussian filtering
  - Not edge-preserving
- Bilateral filtering



# Bilateral Filtering Bilateral Filtering

**Jin-Ying Zhang**



## **Bilateral Filtering Bilateral Filtering:**

Bilateral Filtering Sylvain Paris,Pierre Kornprobst,Jack Tumblin,Frédo Durand,2009-08-20 Bilateral filtering is one of the most popular image processing techniques The bilateral filter is a nonlinear process that can blur an image while respecting strong edges Its ability to decompose an image into different scales without causing haloes after modification has made it ubiquitous in computational photography applications such as tone mapping style transfer relighting and denoising Bilateral Filtering Theory and Applications provides a graphical intuitive introduction to bilateral filtering a practical guide for efficient implementation an overview of its numerous applications as well as mathematical analysis This broad and detailed overview covers theoretical and practical issues that will be useful to researchers and software developers High Performance, Three-Dimensional Bilateral Filtering ,2008 Image smoothing is a fundamental operation in computer vision and image processing This work has two main thrusts 1 implementation of a bilateral filter suitable for use in smoothing or denoising 3D volumetric data 2 implementation of the 3D bilateral filter in three different parallelization models along with parallel performance studies on two modern HPC architectures Our bilateral filter formulation is based upon the work of Tomasi 11 but extended to 3D for use on volumetric data Our three parallel implementations use POSIX threads the Message Passing Interface MPI and Unified Parallel C UPC a Partitioned Global Address Space PGAS language Our parallel performance studies which were conducted on a Cray XT4 supercomputer and aquad socket quad core Opteron workstation show our algorithm to have near perfect scalability up to 120 processors Parallel algorithms such as the one we present here will have an increasingly important role for use in production visual analysis systems as the underlying computational platforms transition from single to multi core architectures in the future Bilateral Filter in Image Processing Ming Zhang,2009 Computer Applications for Web, Human Computer Interaction, Signal and Image Processing, and Pattern Recognition Tai-hoon Kim,Sabah Mohammed,Carlos Ramos,Jemal Abawajy,Byeong-Ho Kang,Dominik Slezak,2012-11-07 This book comprises the refereed proceedings of the International Conferences SIP WSE and ICHCI 2012 held in conjunction with GST 2012 on Jeju Island Korea in November December 2012 The papers presented were carefully reviewed and selected from numerous submissions and focus on the various aspects of signal processing image processing and pattern recognition and Web science and engineering and human computer interaction **Pattern Recognition and Computer Vision** Zhouchen Lin,Liang Wang,Jian Yang,Guangming Shi,Tieniu Tan,Nanning Zheng,Xilin Chen,Yanning Zhang,2019-10-31 The three volume set LNCS 11857 11858 and 11859 constitutes the refereed proceedings of the Second Chinese Conference on Pattern Recognition and Computer Vision PRCV 2019 held in Xi an China in November 2019 The 165 revised full papers presented were carefully reviewed and selected from 412 submissions The papers have been organized in the following topical sections Part I Object Detection Tracking and Recognition Part II Image Video Processing and Analysis Part III Data Analysis and Optimization *Computer Vision - ECCV 2012* Andrew Fitzgibbon,Svetlana Lazebnik,Pietro Perona,Yoichi

Sato, Cordelia Schmid, 2012-09-26 The seven volume set comprising LNCS volumes 7572-7578 constitutes the refereed proceedings of the 12th European Conference on Computer Vision ECCV 2012 held in Florence Italy in October 2012. The 408 revised papers presented were carefully reviewed and selected from 1437 submissions. The papers are organized in topical sections on geometry 2D and 3D shape 3D reconstruction visual recognition and classification visual features and image matching visual monitoring action and activities models optimisation learning visual tracking and image registration photometry lighting and colour and image segmentation. Advances in Visual Computing George Bebis, Richard Boyle, Bahram Parvin, Darko Koracin, Junxian Wang, Yoshinori Kuno, Renato Pajarola, Peter Lindstrom, Pajarola Renato, Andre Hinkenjann, Miguel L. Encarnacao, Claudio T. Silva, Daniel Comino, 2009-11-17 The two volume set LNCS 5875 and LNCS 5876 constitutes the refereed proceedings of the 5th International Symposium on Visual Computing ISVC 2009 held in Las Vegas NV USA in November-December 2009. The 97 revised full papers and 63 poster papers presented together with 40 full and 15 poster papers of 7 special tracks were carefully reviewed and selected from more than 320 submissions. The papers are organized in topical sections on computer graphics visualization feature extraction and matching medical imaging motion virtual reality face processing reconstruction detection and tracking applications and video analysis and event recognition. The 7 additional special tracks address issues such as object recognition visual computing for robotics computational bioimaging 3D mapping modeling and surface reconstruction deformable models theory and applications visualization enhanced data analysis for health applications and optimization for vision graphics and medical imaging theory and applications. International Conference on Materials, Architecture and Engineering Technology (ICMAET 2013) Fangli Zheng, 2014-03-03 The main objective of ICMAET 2013 is to provide a platform for researchers engineers academicians as well as industrial professionals from all over the world to present their research results and development activities in Materials Architecture Agriculture Science Environment Engineering and Engineering Technology. This conference provides opportunities for the delegates to exchange new ideas and experiences face to face to establish business or research relations and to find global partners for future collaboration. ICMAET 2013 received over 350 submissions which were all reviewed by at least two reviewers. As a result of our highly selective review process about 130 papers have been retained for inclusion in the ICMAET 2013 proceedings less than 40% of the submitted papers. The program of ICMAET 2013 consists of invited sessions and technical workshops and discussions covering a wide range of topics. This rich program provides all attendees with the opportunities to meet and interact with one another. We hope your experience is a fruitful and long lasting one. With your support and participation the conference will continue its success for a long time. The conference is supported by many universities and research institutes. Many professors play an important role in the successful holding of the conference so we would like to take this opportunity to express our sincere gratitude and highest respects to them. They have worked very hard in reviewing papers and making valuable suggestions for the authors to improve their work. We also would

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dissertation unifies these algorithms under a common framework describes a variety of applications of the transform in photographic image processing and presents two new data structures to accelerate the computation of such transforms the permutohedral lattice and the Gaussian kd tree      **Information Technology for Manufacturing Systems III** Wei Deng,Qi Luo,2012-09-26 Selected peer reviewed papers from the 2012 3rd International Conference on Information Technology for Manufacturing Systems ITMS 2012 September 8 9 2012 Qingdao China      *Edge Detection with Bilateral Filtering in Spiral Architecture* Qimei Hu,2004      *Image Processing* ,2007      **Impact of Bilateral Filter Parameters on Medical Image Noise Reduction and Edge Preservation** Michael D. Lekan,2009 The objective of this paper is to examine the bilateral filter and its application to digital medical imaging The bilateral filter is a non linear adaptive smoothing filter which is capable of preserving the edges of image structures Selection of the bilateral filter s parameters greatly influence how well an image is smoothed and how well edges are preserved The parameters of the bilateral filter were analyzed individually The noise reduction for each parameter is related to the much simpler box averaging filter Edges were also analyzed for each parameter Techniques for proper parameter selection are studied and general guidelines are suggested After the properties of each parameter were examined they were recombined and applied to CT images Solutions addressing the limitations of this filter for high noise CT images are also considered It was found that the bilateral filter is capable of providing effective smoothing and at the same time preserves edges which are otherwise blurred by other filters The viability of this filter greatly depends on the selection of its parameters      **Advances in Image and Video Segmentation** Yu-Jin Zhang,2006 This book attempts to bring together a selection of the latest results of state of the art research in image and video segmentation one of the most critical tasks of image and video analysis that has the objective of extracting information represented by data from an image or a sequence of images video Provided by publisher      **Locally Adaptive Kernel Regression Methods for Multi-dimensional Signal Processing** Hiroyuki Takeda,2010      *Measurement Technology and its Application III* Prasad Yarlagadda,Yun Hae Kim,2014-06-10 Selected peer reviewed papers from the 2014 International Conference on Measurement Instrumentation and Automation ICMIA 2014 April 23 24 2014 Shanghai China

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