

Giovanni Gallo: a professional and scientific profile as at January 2012.

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Giovanni Gallo is Full Professor of Computer Science at Catania University, Catania, Italy. More precisely he works at the Department of Mathematics and Computer Science (viale A.Doria 6, 95125 Catania, Italy) where he teaches for the Computer Science curricula.

Giovanni Gallo is a IAPR member through GIRPR (Italian scientific association for Pattern recognition)

Giovanni Gallo earned the following educational degrees:

- a) Laurea in Matematica, 1984, Catania University, summa cum laude;
- b) Dottorato in Matematica, 1988, Sicilian Consortium for Doctoral Studies in Mathematics;
- c) Ph.D. in Computer Science, 1991, New York University, advisor prof.B.Mishra.

Giovanni Gallo has been/is:

- a) Associate Professor of Computer Science at Catania University in the years 1992-2000;
- b) Full Professor of Computer Science at Catania University since 2001 up today.

Giovanni Gallo has been/is also as a part time teacher in the staff of:

- a) Catania University, School of Economics (1994-1998);
- b) Scuola Superiore di Eccellenza di Catania (2001-2010);
- c) Accademia Statale di Belle Arti, Catania (2006 up today).

Giovanni Gallo has been/is:

- a) chair of Computer Science Studies at Catania University in the years 2000-2007;
- b) chair of Graduate Studies in Computer Science at Catania University in the years 2009-2011;
- c) President of the Italian Chapter of Eurographics Association 2008 up today;
- d) Vice-Director of the Department of Mathematics and Computer Science of Catania University.

Giovanni Gallo is an inter-disciplinary researcher in Image Processing, Computer Graphics and Pattern Recognition. His contributions are excellent examples of how good mathematical modeling is a key factor to craft effective and useful tools for Image processing and synthesis.

The most relevant scientific achievements of Giovanni Gallo may be schematically summarized as follows:

- i) geometric models incorporating data uncertainty using fuzzy b-splines;
- ii) optimal permutation of image palettes for loss-less compression;
- iii) non photo realistic rendering techniques for digital art (artificial mosaics);
- iv) techniques for computational photography;
- v) segmentation, recognition and classification for many different kind of medical images and medical data;

Good quality research has been produced for all of the six areas listed above. The most relevant papers for each area are listed and summarized as follows:

i) *Modeling uncertain data with fuzzy B-splines.*

AM Anile, B Falcidieno, G Gallo, M Spagnuolo, S Spinello,
Fuzzy sets and systems, 2000, vol.113,issue 3, p.397-410.

Abstract: Fuzzy numbers are an alternative solution to the problem uncertain data modeling. The

idea of fuzzy B-spline is here introduced: its power relies on the possibility of being used as approximating function both for fuzzy and crisp data. The fuzzy modeling of large collections of noisy data described in this paper, moreover, achieves a very high degree of compression with a relatively low computational complexity both for maintenance and interrogation of the model itself.

ii) *An efficient re-indexing algorithm for color-mapped images*

Sebastiano Battiato, Giovanni Gallo, Gaetano Impoco, Filippo Stanco

IEEE Transactions on Image Processing, 2004, vol.13, issue 11, p.1419-1423

Abstract: The efficiency of lossless compression algorithms for fixed-palette images (indexed images) may change if a different indexing scheme is adopted. Many lossless compression algorithms adopt a differential-predictive approach. Hence, if the spatial distribution of the indexes over the image is smooth, greater compression ratios may be obtained. Because of this, finding an indexing scheme that realizes such a smooth distribution is a relevant issue. The paper models this problem as a TSP problem and suggests corresponding computational strategies.

iii) *Artificial Mosaics*

Giovanni Gallo, Gianpiero DiBlasi

The Visual Computer (2005) vol.21, issue 6. p.373-383.

Abstract: Art often provides valuable insight that can be applied to technological innovations, especially in the fields of image processing and computer graphics. In this paper we present a method to transform a raster input image into a good-quality mosaic: an “artificial mosaic.”

iv) *A locally Adaptive Zooming Algorithm for Digital Images*

S.Battiato, G.Gallo, F.Stanco

Image and Vision Computing (2002) vol. 20, issue 11, p.805-812

Abstract: In this paper we address the problem of producing an enlarged picture from a given digital image (zooming). We propose a method that tries to take into account information about discontinuities or sharp luminance variations while doubling the input picture. This is realized by a nonlinear iterative procedure of the zoomed image and could hence be implemented with limited computational resources. The algorithm works on monochromatic images, RGB color pictures and Bayer data images acquired by CCD/CMOS camera.

v) *Experimental methodology for digital breast shape analysis and objective surgical outcome evaluation.*

G Catanuto, A Spano, A Pennati, E Riggio, GM Farinella, G Impoco, S Spoto, G Gallo, MB Nava
Journal of Plastic, Reconstructive & Aesthetic Surgery (2008), vol.61,issue 3, p314-318.

Abstract: The reconstructive process in the era of anatomical implants requires excellent survey capabilities that mainly rely on surgeon experience. In this paper we present a set of parameters to unambiguously estimate the shape of natural and reconstructed breast. A digital laser scanner was employed on seven female volunteers. A graphic depiction of curvature of the thoracic surface has been the most interesting result.

A quantitative measurement of Giovanni Gallo's scientific production is summarized as follows:

GOOGLE SCHOLAR/PUBLISH OR PERISH H-INDEX: 16

ISI/WEB OF SCIENCE H-INDEX: 7

Giovanni Gallo is an active member of the Pattern Recognition Italian and International Scientific Community.

He has been reviewer for all the most important journals in the area and member of several Program

Committee for both national and international events.

He is the founder of the Image Processing Laboratory at Catania University. This very active research group includes about ten people among staff, graduate students and post-docs.

The Laboratory manages the "International Computer Vision Summer School, Sampieri" since 2008.

Giovanni Gallo has been the advisor of about ten graduate students that have obtained their degree with researches related to Pattern Recognition, Image processing and Computer Graphics (Salvatore Spinello, Sebastiano Battiato, Filippo Stanco, Alessandro LoGiucio, Giampiero Di Blasi, Salvatore Nicotra, Giovanni Farinella, Eliana Granata,).

He is currently supervising four graduate students in this field (Eugenio Rustico, Claudio Guarnera, Alessandro Torrisi, Lorenzo DiSilvestro).

Giovanni Gallo has also served as Court Expert for Corte d'appello di Mestre for a major trial related to terroristic crime in Italy in the 70s.

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