



### Personal Details

Family name : Casanova  
First name : Andrea  
Gender : Male  
Birth Date :  
Nationality : Italy

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### Professional Position

Researcher and Assistant Professor at Department of Computer Science, University of Cagliari and Medical and Clinic ICT expert at the University Hospital of Cagliari

### Education

Title of qualification *MD Electrical Engineering*  
Name of institution *Università degli Studi di Cagliari*  
Country Italy  
Year of qualification *1982*

### Professional membership

GIRPR member (Italian research group focused on Pattern Recognition)  
MILab member (Medical Image Laboratory, University of Cagliari).

### Expertise and Current Research Fields

Medical Engineering and Software Engineering. The current research interests are in the field of Biometric Authentication, Haptic System, Image Analysis and Processing, Human-Computer Interaction vr/ar and Computer-Aided Diagnosis.

Language	Writing	Reading	Conversation
Italian	Mother Tongue	Mother Tongue	Mother Tongue
English	Fluent	Fluent	Fluent
French	Fluent	Fluent	Fluent



## Professional Experience

### Employment history

- **Period** 1982-1990
  - **Task** Freelancer c/o several ICT Italian Companies
- **Period** 1990-2001
  - **Task** Technical Officer, Data Elaboration Area, University of Cagliari
- **Period** 2001
  - **Task** Researcher in Information Processing Systems, University of Cagliari, Surgery and Medicine Faculty
- **Period** 2007
  - **Task** Information Systems Manager AOUCA, Cagliari
- **Period** 2006
  - **Task** Member of the Electronic Health Board, Autonomous Region of Sardinia
- **Period** 2004-2006
  - **Task** Information Systems Manager, Hospital "G. Brotzu" Cagliari
- **Period** 2006-2009
  - **Task** Information Systems Manager ASL 8 Cagliari.

### Principal Publications

GARIBOTTO G., MURRIERI P., CAPRA A., ET AL." WHITE PAPER ON INDUSTRIAL APPLICATIONS OF COMPUTER VISION AND PATTERN RECOGNITION", LECTURE NOTES IN COMPUTER SCIENCE-2013, VOL:8157 LNCS

CASANOVA A, VITULANO S, "ENTROPY MEASURE IN IMAGE ANALYSIS", IWSSIP'10 2010 17TH INTERNATIONAL CONFERENCE ON SYSTEMS, SIGNALS AND IMAGE PROCESSING- ISBN : 97885228056552010

VITULANO S., CASANOVA A, "THE ROLE OF ENTROPY: MAMMOGRAM ANAL", ", LECTURE NOTES IN COMPUTER SCIENCE-2008, VOL:5112 LNCS

CANTONI V., CASANOVA A., FRASCHINI M., VITULANO S." EQUILIBRIUM AND DISSIPATIVE STRUCTURES ROLE ON IMAGES", PATTERN RECOGNITION LETTERS-2007, VOL. 28

L PILLONI; S VITULANO; D FANNI; A CASANOVA; P P CONI; M FRASCHINI "COULD ENTROPY HELP IN THE DIFFERENTIAL DIAGNOSIS OF STEATOHEPATITIS?" MODERN PATHOLOGY; MODERN PATHOLOGY 2006 VOL.19 (ISSN 0893-3952)

A. CASANOVA, V. SAVONA, S. VITULANO, "A NOVEL ENTROPY METHOD FOR CLASSIFICATION OF BIOSIGNALS" ICINCO2005-ISBN: 9728865317, SPRINGER 2005

VITULANO S., CASANOVA A., SAVONA V." THE SPIRAL METHOD APPLIED TO THE STUDY OF THE MICROCALCIFICATIONS IN MAMMOGRAMS", LECTURE NOTES IN COMPUTER SCIENCE-2005,VOL:3617 LNCS

CANNAVALE F., CASANOVA A., FRASCHINI M., SAVONA V. "CONTENT IMAGE RETRIEVAL BASED ON TOPOLOGICAL INFORMATION", JOURNAL OF VISUAL LANGUAGES AND COMPUTING-2004, VOL.15

A.CASANOVA, AND S.VITULANO "ENTROPY AS A FEATURE IN THE ANALYSIS AND CLASSIFICATION OF SIGNALS" MDIC 2004-WORLD SCIENTIFIC; SINGAPORE; REPUBBLICA DI

SINGAP ISBN : 9812561374

A.CASANOVA, V.SAVONA AND S.VITULANO “THE ROLE OF ENTROPY IN SIGNAL ANALYSIS AND CLASSIFICATION:AN APPLICATION TO BREAST DIAGNOSIS” MEDICON2004 ISBN : 3540288694 SPRINGER;

CASANOVA A, ET AL “ENTROPY MEASURES IN IMAGE CLASSIFICATION” 2004 ISBN : 9812384316 4RD INTERNATIONAL WORKSHOP HMP04 2004

A. CASANOVA; M. FRASCHINI; SERGIO VITULANO “CONTEXT: A TECHNIQUE FOR IMAGE RETRIEVAL INTEGRATING CONTOUR AND TEXTURE INFORMATION” XV BRAZILIAN SYMPOSIUM ON COMPUTER GRAPHICS AND IMAGE PROCESSING 2002 ISBN : 076951846X

A. CASANOVA; M. FRASCHINI; I. LAI; S. VITULANO “ONE PROPOSAL FOR ELABORATION OF SIGNALS: SOME EXAMPLE OF SIGNALS 1-D AND 2-D” RECENT RESEARCH DEVELOPMENTS IN PATTERN RECOGNITION, TRANSWORLD RESEARCH 2002 ISBN 81-7895-050-2.

BALESTRIERI ET AL, “INFORMATION RETRIEVAL FROM MEDICAL DATABASE” MULTIMEDIA DATABASES AND IMAGE COMMUNICATION, SECOND INTERNATIONAL WORKSHOP, MDIC 2001 ISBN: 354042587X, SPRINGER.

CASANOVA A, MICARELLI A, “REASONING WITH CASES IN CLINICAL PROBLEM SOLVING” PROCEEDINGS OF THE IEEE INTERNATIONAL CONFERENCE ON SYSTEMS, MAN AND CYBERNETICS, 1995

## Books

A.F. ABATE, A. CASANOVA , M. NAPPI , S.RICCIARDI “HAPTIC RENDERING OF DEFORMABLE SURFACES IN MEDICAL TRAINING” ISBN 9788898091164

“Face recognition in adverse conditions” ISBN13: 9781466659667 Nappi M.,De Marsico M, Tistarelli M., 2013 - Chapter: Daniel Riccio, Andrea Casanova, Gianni Fenu, “Local vs global: Intelligent Local Face Recognition”