

Curriculum Vitae (March 2018)

Prof. Raimondo Schettini
DISCo (Dipartimento di Informatica, Sistemistica e Comunicazione)
Università degli Studi di Milano-Bicocca U14
Viale Sarca 336
20126 Milano Italy
tel +39 02 64487840
schettini@disco.unimib.it
<http://www.ivl.disco.unimib.it/>

- Graduated in Physics, 1986
- Researcher (Italian National Research Council- CNR) 1989-2001.
- Senior Researcher (Italian National Research Council - CNR) 2001-2002
- Associate professor, Università degli Studi di Milano-Bicocca, 2002-2011
- Full professor, Università degli Studi di Milano-Bicocca, 2011-now
- Head of the CNR color imaging Lab. Institute of Multimedia Information Technologies. CNR. 1990-2002.
- Head of Imaging and Vision Lab. Department of Information Science, Systems Theory, and Communication (DISCo), Università degli Studi di Milano-Bicocca. 2003-now
- Vice-director, Department of Information Science, Systems Theory, and Communication (DISCo), Università degli Studi di Milano-Bicocca. 2007-now

Raimondo Schettini, master degree in physics, he was a researcher (1988-2001), and a Principal Investigator (2001-2002) at the National Research Council. He has been adjunct professor at the Polytechnic of Milan (1997-2001), Associate Professor (2002-2011), and then full professor at the Department of Informatics, Systems and Communication of the University of Milan-Bicocca. He has also been visiting Professor at University Jean Monnet of Saint Etienne (2014). From 1995 to January 2001 he was a member of the Scientific committee of the Institute of Multimedia information Technologies of the Italian National Research Council. From 2003 to 2008 he was a member of the Computer Science Committee of the University of Milan-Bicocca. From October 2007 he is Vice-Director of the Department of Informatics, Systems and Communication. He was in charge of the "Image and Color" Laboratory of CNR from 1990 to 2002. In 2003 he founded, with the support of Hewlett-Packard, the DISCo research laboratory "Imaging and Vision". He has supervised several PhD theses in Computer Science. He has been in charge of numerous research projects both at the CNR and at the University of Milan-Bicocca. The great majority of the projects have been funded by private companies (eg Ocè, Hewlett Packard, Olivetti, STMicroelectronics, ST-Ericson, Selex Galileo, Accenture, Canon-Europe, Almaviva, Almaxwave, Pirelli), the European Community and the Region Lombardy. In 2015 he won the Bicocca Innovation Grant with the project "Image Recognition in the Consumer Goods and Services Industry" and DISCo Best paper award. It conducts research concerning: the processing, analysis and classification of images and video; the management reproduction of color; the automatic indexing of images, video and three-dimensional objects, according to their pictorial characteristics, the detection and recognition of 2D and 3D faces, the design and application of novel machine learning algorithms. Its activity is documented in over 300 publications in journals (about 100), books and conference proceedings with over 5500 citations and H-index 37 according to Google Scholar, and with over 2600 citations and H-index 26 according to Scopus. He is co-inventor of several patents. He has contributed to the standardization works of the Commission Internationale de l'Eclairage (CIE) and of the Moving Picture Experts Group (MPEG). In 2010 he has been appointed Fellow of the International Association of Pattern Recognition (IAPR) for his contributions to pattern recognition research and color image analysis. He is member of the Editorial Board of international journals and guest editor for several

international journals. He has been General/ Program Chair of several international conferences and workshops.

Journal publications (last five years)

1. Napoletano, P, Piccoli, F, Schettini, R (2018). Anomaly detection in nanofibrous materials by CNN-based self-similarity. *SENSORS*, vol. 18, p. 209, ISSN: 1424-8220, doi: 10.3390/s18010209
2. Bianco, S, Celona, L., Napoletano, P, Schettini, R (2018). On the use of deep learning for blind image quality assessment. *SIGNAL, IMAGE AND VIDEO PROCESSING*, vol. 12, p. 355-362, ISSN: 1863-1703, doi: 10.1007/s11760-017-1166-8
3. Tremeau, A, Tominaga, S, Schettini, R, Bianco, S (2018). Special Section Guest Editorial: Computational Color Imaging. *JOURNAL OF ELECTRONIC IMAGING*, vol. 27, 011001, ISSN: 1017-9909, doi: 10.1117/1.JEI.27.1.011001
4. Schettini, R, Piccoli, F., Cusano, C, Bianco, S. (2017). Artistic photo filter removal using convolutional neural networks. *JOURNAL OF ELECTRONIC IMAGING*, vol. 27, p. 1-14, ISSN: 1017-9909, doi: 10.1117/1.JEI.27.1.011004
5. Bianco, S, Ciocca, G, Schettini, R. (2017). Combination of Video Change Detection Algorithms by Genetic Programming. *IEEE TRANSACTIONS ON EVOLUTIONARY COMPUTATION*, vol. 21, p. 914-928, ISSN: 1089-778X, doi: 10.1109/TEVC.2017.2694160
6. Bianco S, Buzzelli M, Mazzini D, Schettini R (2017). Deep learning for logo recognition. *NEUROCOMPUTING*, vol. 245, p. 23-30, ISSN: 0925-2312, doi: 10.1016/j.neucom.2017.03.051
8. Ciocca,G, Napoletano, P, Schettini, R. (2017). Food recognition: a new dataset, experiments and results. *IEEE JOURNAL OF BIOMEDICAL AND HEALTH INFORMATICS*, vol. 21, p. 588-598, ISSN: 2168-2194, doi: 10.1109/JBHI.2016.2636441
9. Bianco, S, Cusano, C, Napoletano, P, Schettini, R. (2017). Improving CNN-Based Texture Classification by Color Balancing. *JOURNAL OF IMAGING*, vol. 3, p. 1-15, ISSN: 2313-433X, doi: 10.3390/jimaging3030033
10. Bianco, S, Cusano, C, Schettini, R. (2017). Single and Multiple Illuminant Estimation Using Convolutional Neural Networks. *IEEE TRANSACTIONS ON IMAGE PROCESSING*, vol. 26, p. 4347-4362, ISSN: 1057-7149, doi: 10.1109/TIP.2017.2713044
11. Bianco S, Schettini R (2017). Unsupervised color coding for visualizing image classification results. *INFORMATION VISUALIZATION*, ISSN: 1473-8716, doi: 10.1177/1473871617700682
12. CUSANO, CLAUDIO, NAPOLETANO, PAOLO, SCHETTINI, RAIMONDO (2016). Combining multiple features for color texture classification. *JOURNAL OF ELECTRONIC IMAGING*, vol. 25, 061410, ISSN: 1017-9909, doi: 10.1117/1.JEI.25.6.061410
13. Cusano C, Napoletano P, Schettini R (2016). Evaluating color texture descriptors under large variations of controlled lighting conditions. *JOURNAL OF THE OPTICAL SOCIETY OF AMERICA. A, OPTICS, IMAGE SCIENCE, AND VISION*, vol. 33, p. 17-30, ISSN: 1520-8532, doi: 10.1364/JOSAA.33.000017
14. Bianco S, Celona L, Schettini R (2016). Robust smile detection using convolutional neural networks. *JOURNAL OF ELECTRONIC IMAGING*, vol. 25, 063002, ISSN: 1017-9909, doi: 10.1117/1.JEI.25.6.063002
15. Schettini, R, Van De Weijer, J, Cusano, C, Napoletano, P (2016). Special Section Guest Editorial: Color in Texture and Material Recognition. *JOURNAL OF ELECTRONIC IMAGING*, vol. 25, 061401, ISSN: 1017-9909, doi: 10.1117/1.JEI.25.6.061401
16. Bianco S, Gasparini F, Schettini R (2015). Adaptive Skin Classification Using Face and Body Detection. *IEEE TRANSACTIONS ON IMAGE PROCESSING*, vol. 24, p. 4756-4765, ISSN: 1057-7149, doi: 10.1109/TIP.2015.2467209
17. Bianco S, Ciocca G, Napoletano P, Schettini R (2015). An interactive tool for manual, semi-automatic and automatic video annotation. *COMPUTER VISION AND IMAGE UNDERSTANDING*, vol. 131, p. 88-99, ISSN: 1077-3142, doi: 10.1016/j.cviu.2014.06.015
18. CIOCCA, GIANLUIGI, CUSANO, CLAUDIO, SCHETTINI, RAIMONDO (2015). Image orientation detection using LBP-based features and logistic regression. *MULTIMEDIA TOOLS AND*

- APPLICATIONS, vol. 74, p. 3013-3034, ISSN: 1380-7501, doi: 10.1007/s11042-013-1766-4
19. Bianco S, Mazzini D, Pau D, Schettini R (2015). Local detectors and compact descriptors for visual search: a quantitative comparison. DIGITAL SIGNAL PROCESSING, vol. 44, p. 1-13, ISSN: 1051-2004, doi: 10.1016/j.dsp.2015.06.001
 20. CUSANO, CLAUDIO, NAPOLETANO, PAOLO, SCETTINI, RAIMONDO (2015). Remote Sensing Image Classification Exploiting Multiple Kernel Learning. IEEE GEOSCIENCE AND REMOTE SENSING LETTERS, vol. 12, p. 2331-2335, ISSN: 1545-598X, doi: 10.1109/LGRS.2015.2476365
 21. Bianco S, Schettini R (2014). Adaptive color constancy using faces. IEEE TRANSACTIONS ON PATTERN ANALYSIS AND MACHINE INTELLIGENCE, vol. 36, p. 1505-1518, ISSN: 0162-8828, doi: 10.1109/TPAMI.2013.2297710
 22. Cusano C, Napoletano P, Schettini R (2014). Combining local binary patterns and local color contrast for texture classification under varying illumination. JOURNAL OF THE OPTICAL SOCIETY OF AMERICA. A, OPTICS, IMAGE SCIENCE, AND VISION, vol. 31, p. 1453-1461, ISSN: 1084-7529, doi: 10.1364/JOSAA.31.001453
 23. Bianco S, Schettini R (2014). Error-tolerant color rendering for digital cameras. JOURNAL OF MATHEMATICAL IMAGING AND VISION, vol. 50, p. 235-245, ISSN: 0924-9907, doi: 10.1007/s10851-014-0496-1
 25. Corchs SE, Gasparini F, Schettini R (2014). No reference image quality classification for JPEG-distorted images. DIGITAL SIGNAL PROCESSING, vol. 30, p. 86-100, ISSN: 1051-2004, doi: 10.1016/j.dsp.2014.04.003
 26. Ciocca G, Cusano C, Santini S, Schettini R (2014). On the use of supervised features for unsupervised image categorization: An evaluation. COMPUTER VISION AND IMAGE UNDERSTANDING, vol. 122, p. 155-171, ISSN: 1077-3142, doi: 10.1016/j.cviu.2014.01.010