

Online Document for *DIPA: Computer Vision & Image Analysis, 4th Edition*, and *DIPA: Digital Image Enhancement, Restoration and Compression, 4th Edition*, Scott E Umbaugh, © 2023

Useful CVIP Software and Resources (free or shareware)

CVIPtools	http://cviptools.siue.edu/
CVonline	Useful computer vision related links http://homepages.inf.ed.ac.uk/rbf/CVonline/
JPEG	JPEG C source code http://www.jpeg.org
LIBTIFF	Portable library of routines for TIFF files http://www.libtiff.org
PBMPLUS	Portable library of routines for pnm image file formats http://www.acme.com/software/pbmplus/
ImageJ	Java-based image processing and analysis from National Institutes of Health http://rsbweb.nih.gov/ij/
GIMP	GNU image manipulation program http://www.gimp.org
OpenCV	Open source code for computer vision http://opencv.org/
Gonzalez and Woods Image Database links http://imageprocessingplace.com/root_files_V3/image_databases.htm	

Professional Societies

These societies sponsor conferences and publish conference proceedings, magazines and journals of interest to imaging professionals

Institute of Electrical and Electronic Engineers (IEEE)

<http://www.ieee.org>

International Association of Pattern Recognition (IAPR)

<http://www.iapr.org/>

Society of Motion Picture and Television Engineers (SMPTE)

<http://smpte.org>

Society of Photo-Optical Instrumentation Engineers (SPIE)

<http://spie.org>

Association for Computing Machinery (ACM)

<http://www.acm.org>

Society for Imaging Science and Technology (IS&T)

<http://www.imaging.org/>

CVIP-Related Standards

Acronyms

NTSC – National Television Standards Committee

SECAM – Sequential Couleur Avec Memoire (Sequential Color with Memory)

PAL – Phase Alternation Line

ITU – International Telecommunications Union (formerly CCITT)

ITU-R – International Telecommunications Union-Radio (formerly CCIR)

ISO – International Standards Organization: JPEG/MPEG

ANSI – American Standards Institute

CIE – Commission Internationale de l'Eclairage

VESA – Video Electronics Standards Association

FCC – Federal Communication Commission

ANSI Standards:

ANSI

Washington, DC Headquarters

1819 L Street, NW, 6th Fl.

Washington, DC, 20036

Tel: 202.293.8020

Fax: 202.293.9287 11

<http://www.ansi.org>

ISO Standards:

International Organization for Standardization (ISO)

1, rue de Varembé, Case postale 56

CH-1211 Geneva 20, Switzerland

Telephone +41 22 749 01 11; Fax +41 22 733 34 30

<http://www.iso.org/iso/en/ISOOnline.frontpage>

ITU Standards:

International Telecommunication Union

Central Library

Place des Nations

CH-1211 Geneva 20

Switzerland

Telephone: +41 22 730 69 00

Fax: + 41 22 730 53 26

E-mail: library@itu.int

<http://www.itu.int/library/>

<http://www.itu.int/home/index.html>

Journals and Trade Magazines

IEEE Transactions on Image Processing

IEEE Transactions on Medical Imaging

IEEE Transactions on Pattern Analysis and Machine Intelligence

Pattern Recognition – the Journal of the Pattern Recognition Society

Journal of Electronic Imaging – SPIE and IS&T

IEEE Signal Processing Magazine

IEEE Computer Graphics and Applications

IEEE Robotics and Automation Magazine

OE Magazine – SPIE

Advanced Imaging, www.advancedimagingpro.com

Vision Systems Design, <http://www.vision-systems.com>

Photonics Spectra, www.photonics.com

Computer Graphics World, cgw.com

Laser Focus World, www.laserfocusworld.com

Computerized Medical Imaging and Graphics, <http://www.journals.elsevier.com/computerized-medical-imaging-and-graphics/>

Journal of Visual Communication and Image Representation,

<http://www.journals.elsevier.com/journal-of-visual-communication-and-image-representation/>

Image and Vision Computing, <http://www.journals.elsevier.com/image-and-vision-computing/>