

## 6. Borders

The border of the stereo image is typically black, and in an attempt to make sense out of the image within, the borders are sometimes perceived as incongruent. That is, the brain creates colored ghosts on the borders. (See **{{stereo image borders}}**). Such ghosts are remedied by cutting down the borders of the image until the left and right images appear to have the same border, preferably at the perceived location of the computer screen.

## 7. Stereographs from Nonstereo Photos

As I mentioned in the abstract, there exists new software from Synthonics, called *Wireframe Express*,<sup>4</sup> that can take two or more very different views of a scene or object and integrate them into a stereographic view from (almost) any direction. You click on the common points in the photographs and the software constructs polygons on a three-dimensional model that you or the software maps textures onto. Clearly areas that are not covered by at least two of the photos cannot be accurately mapped, so such regions must be left out of the final image. A series of **{{images}}** on the CD-ROM illustrates.

As in *3DMaker*, the *Wireframe Express* software requires some trial and error to get, say, vertical walls to be vertical. After the three dimensional model has been generated, however, it is possible to generate views from any angle, including stereo views and even a stereo walkaround.

I include on the CD-ROM a number of **{{stereo images}}** that illustrate the use of the *Wireframe Express* software, as well as a .fli animation file **{{animation}}** for those equipped to view it.

## 8. Conclusions

Stereo photo buffs will enjoy the expanded capabilities of generating stereo images on the computer. Because of the ease of integrating and modifying computer images with special software, many of the difficulties encountered in the past with stereo photography will be eliminated.

## REFERENCES

- Adams, Ansel, *The Camera* (Book 1 of The New Ansel Adams Photography Series), New York Geographical Soc., 1980.
- Mace, O.H., *Collectors Guide to Early Photographs*, Wallace-Homestead, 1990.
- Pesce, Bruno, and Rogues, Silvain, *DO-3D*, 1994.  
(This is a freeware tutorial on stereography. The

entire package, including drawings and images, is viewable from the CD-ROM: **{{Do-3D}}**)

Nazarieff, S., *Stereo Nudes*, 1850-1930, Editions Filipacchi-SONODIP, Paris, 1985.

Williams, R., ed, *Frontiers of Photography*, Time-Life Books, 1972.

Willsberger, Hohann, *The History of Photography*, Doubleday, 1977.

In addition, I have included a significant number of stereographs from a private collection (owner wants to be anonymous), from a CD-ROM from *3DTV Corp.*, and from a collection of stereographs provided me by *Synthonics Corp.*

## BIOGRAPHY

RICHARD BLADE **{{photo}}** is a Professor of Physics at the University of Colorado - Colorado Springs. Other professional positions include Caltech, University of California - Berkeley, and United States International University. Professor Blade serves as science editor for IPI Press and Editor-in-Chief of the IJVR. He also serves as Focus Chair for IEEE Standards in Virtual Reality and Chair of the Working Group on the VR Glossary. His current research involves VR motion simulation.

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## AUTHORS' GUIDE

(Revised 8-15-95)

### Recent Changes

Changes made since the 3-23-95 edition of the Authors' Guide primarily relate to the fact that the IJVR is now published in HTML format. Additional changes are a relaxation of the format for bibliography entries, and a new topic call *EDITING*.

### Content

The IJVR solicits original manuscripts with possible multimedia enhancements and software for publication, including articles on original research and applications in all areas of virtual reality, including scientific discoveries,

<sup>4</sup> As in the case of *3DMaker*, because Synthonics is a sponsor of this journal, readers may order the software through us at a discounted price. See the Sponsors section for details.

technical developments, innovative applications, proposed or newly adopted standards, social issues, reports, book reviews, reviews of new hardware and software, and artwork using the VR medium. The appropriateness to publish a submission shall be based on what professionals in the virtual reality field want to see in such a journal, as judged by the content editor in charge of the manuscript, following the guidelines of the Editorial Board.

### Refereeing

All materials submitted for publication, including invited papers, are refereed to ensure adherence to originality and quality standards as well as ensure a broad enough interest among readers of the Journal. While the IJVR is published with an emphasis on multimedia, the printed portion must be self contained in the sense that it provides all the important points and results. The printed edition will be the primary focus of the refereeing.

### Content Editor

Each article will be submitted to a content editor, either by the Editor-in-Chief, or directly by the author(s). That editor, enlisting the help of various referees, will be in charge of determining the appropriateness of the subject matter, the originality, and the quality of the proposed article. The content editor is also encouraged to invite papers that have particular significance. In the case of international submissions, attempts will be made to use a content editor in the country of the primary author.

In recognition of the significant role that the content editor plays, his or her name will appear below the name(s) of the author(s) in the article, clearly identified as the editor.

### Originality

All manuscripts submitted must be original. The IJVR does not accept articles published, either completely, or in significant part, in other magazines or periodicals. However, the IJVR will consider reports described in conference proceedings if they deserve repeated coverage to a wider audience and if the author revises them to include current results and significant multimedia enhancements. It is the author's responsibility to secure all necessary clearances, including reprint rights, for any materials reproduced from other papers or articles. All copyrights on figures, etc. must be clearly be identified. References must be made to the original source of quoted material.

### Editing

The IJVR requires that all submissions for publication be in English. In view of the fact that the IJVR is an international publication and strongly encourages

contributions from non-English speaking nations, the IJVR edits submissions for style and grammar. The staff attempts to make no changes in content and allows the authors final approval.

### The Printed Article

As mentioned before, the printed version of the article needs to be self contained. It will typically occupy 3-10 pages of double column type in the printed journal, including equations, line drawings, graphs, and (black and white) photographs. Authors should submit photographs or bitmap graphics for the printed edition only when necessary; the CD-ROM will typically contain all such bitmapped graphics.

Line drawings and graphs must be photo-ready, submitted on paper no smaller than 3 by 3 inches with identifications such as figure numbers on the rear. Alternately, line drawings can be submitted in standard file format such as .EPS and .TIF. (Contact the IJVR office to discuss possible formats.) The IJVR will digitally scan the line drawings and graphs submitted on paper, and will resize them as needed. Screened pictures such as photographs printed in publications do not scan well and should be avoided when possible.

### Title and Author Names

In the printed edition of the IJVR all the material, including the title and authors' names, are contained in a single column. The title must be limited to three one-column-wide lines.

### Abstract

An abstract of 100-200 words must be included in each article. The abstract must be capable of being expressed in computer text files. That is, equations, special characters, or even italics, boldface, subscripts or superscripts are not allowed in the abstract.

### Key Words

The IJVR maintains an indexing system on its electronic media, and finds it useful for authors to provide a list of key words to incorporate in the system. Authors are encouraged, but not required, to submit such a list.

### Author Biographies and Photographs

Each author should submit a biography of 100-200 words that tells the reader about the author's interest and background relative to the subject of the article. Included should be the current position and technical interests. Additional optional information can include education, professional honors, and professional affiliations. Each author should include a current mailing address, voice phone number, fax number, and email address. The IJVR reserves the right to cut portions of the biography in the printed edition, the CD-ROM edition, or both.

In addition, each author should submit a black and white or color photograph of himself or herself with dimensions ranging from 3 to 10 inches on a side. Author photographs on computer files in a common format are also accepted. Author photographs will not appear in the printed issue.

### Tables and Equations

The IJVR will typeset all the submitted tables and equations. Thus authors may submit them in neatly handwritten form. The IJVR reserves the right to change the typestyle or particular symbols. No mathematical expression or table in the printed edition can exceed the single column width, though expressions occupying multiple lines are permitted.

### Format of Bibliographical References

Because the IJVR crosses the boundaries between traditional fields, each of which has its own format for bibliographic references, the IJVR now encourages bibliographic formats that are standard to the particular discipline. References to the bibliography contained in the text of the article may be a simple number in brackets, such as [15], or may contain such things as the author's name and year, as [Smith, 1960]. Citations of published literature should contain author names, article or book title, publication name (periodical or proceedings), publisher's name and city, volume and number (if appropriate), publication date (year and month if appropriate), and pages, sections, and/or chapters cited. Well-established abbreviations are acceptable.

If the authors have no format standard to their discipline, here are two examples of an acceptable format:

[1] C. Stanfill and D. Waltz, "Toward Memory-Based Reasoning", *CACM*, ACM, New York, Vol. 29, No. 12, Dec. 1986, pp. 1213-1228.

[2] D. C. Montgomery, *Design and Analysis of Experiments*, Wiley, New York, 1984, Chapters 2,3.

### Submissions for the CD-ROM

The CD-ROM edition of the IJVR contains all the text, line art, tables, equations, and photographic images that are contained in the paper edition. In addition, the IJVR encourages authors to submit color photographs, additional line art, computer graphic files, movie clips, sound clips, demonstration programs, and sourcecode files for publication on the CD-ROM only. The IJVR will digitize the line art, photographs, audiotapes and videotapes submitted by authors. In addition, authors may submit computer files for the graphic images, sounds, and video clips. Because the IJVR uses the html format, as used on the World Wide Web, it requires less conversion if the files are compatible with standard Web browsers, namely .GIF and .JPG for graphic images, and .MOV and .MPG for video clips.

Authors should be aware of the following: (1) The resolution of line art on a computer monitor will be far less than that on the printed page. Authors should therefore refrain, if possible, from submitting line art with very fine details. If such detail is absolutely required, the IJVR will have to create zoomed views. (2) A quarter screen movie on the computer screen has roughly the same resolution as an ordinary US television. Currently the IJVR publishes movies quarter screen, so videotapes can be submitted in almost any format (NTSC, PAL, VHS, S-VHS, 8mm, etc.) with little concern about resolution. However, large contrasts and thin lines on a dark background should be avoided whenever possible. (3) A number of short (15-30 second) video clips is preferable to a long videotape. Moreover, videotapes take significant room on the CD-ROM and must therefore be restricted. There is no restriction on the amount of text, line art, and images on the CD-ROM. (4) Graphics files should be compatible with a 640 by 480 VGA screen with 256 colors.

### Jump Buttons

The text of the article must refer to all "jumps" by enclosing appropriate identifications in double braces. In the CD-ROM edition of the journal the areas enclosed by double braces will become "jump buttons". That is, double clicking on one of those areas will take the reader to the labeled object, whether it be an additional screen of text or a multimedia enhancement like a color photo, videotape, audiotape, or some kind of computer graphic. Even a Windows and MS-DOS program can be run from a jump button. In the manuscript the double braces must enclose an adequate description of the jump destination, whether it be a footnote, bibliographic reference, or multimedia extension. Examples are {{footnote 1}}, {{ref [23]}}, {{sound movie start=4:36, end=5:05}}, {{computer file egg.gif}}. In final editing the IJVR will change the descriptions inside the double braces to conform with its own system. "Entry screens", which are text screens with additional jump buttons leading into multimedia enhancements, are permitted in the CD-ROM edition. All buttons in the body of the article will appear in both editions, even though the multimedia enhancements are accessible only in the CD-ROM edition.

### Submission Procedures

The initial submission may be to Richard A. Blade, Editor-in-Chief, IPI Press, 2608 N. Cascade, Colorado Springs, CO 80907, or directly to a content editor with a copy of the cover letter to the Editor-in-Chief. It should contain three (3) copies of the article to be printed organized in the following order: Title, authors, abstract, body of article, footnotes, bibliographic references, biographies, and list of keywords. In addition, a single copy of each of the video and audiotapes, computer files, and other materials to be published only on the CD-ROM is desirable but not absolutely required. At this stage the

purpose of the submission is only to get a review, so photos, etc, need not be originals. It should not be assumed that materials will be returned, though the IJVR will attempt to do so if requested in the cover letter. The cover letter should contain the name of the single designated author to serve as contact along with address, phone, fax, and email address; date of submission; and a list of all enclosed materials. Email correspondence between the author(s), content editors, and IJVR staff is encouraged whenever possible, but the IJVR does not accept initial submissions by FAX or email (including ftp).

After the content editor has informed the designated author of the acceptance of the article, and has notified the IJVR, the staff at the IJVR will contact the author with instructions on the final submission.

Submit your article to Richard A. Blade, IPI Press, 2608 N. Cascade, Colorado Springs, CO 80907. The email address is [rblade@serf.uccs.edu](mailto:rblade@serf.uccs.edu). For subscription or advertising information contact the IJVR Business Office, PO Box 925, Leadville, CO 80461, 800-IPI-IJVR (800-474-4587), email [ijvr@usa.net](mailto:ijvr@usa.net).

## HOW TO USE THE CD-ROM

New with this issue is a multiplatform version of the CD-ROM which uses HTML ("hypertext markup language") format, the same as used on the *World Wide Web*. This makes the material in the IJVR accessible to almost any platform; in particular, Windows, Macintosh, and X-Windows. While there are many ways to access the files, the procedures are extremely simple. Choose the method below that suits you best.

The CD-ROM reads just like any World Wide Web site. That is, you click your mouse on the underlined and colored text<sup>5</sup> to jump to the destination indicated. You can do word searches, view images and movies (configuring your browser with various "helper applications" if needed for the viewing), and print various portions of the text.

### *Method 1: Use your own Web browser on any platform.*

Many, if not most, readers who will have a CD-ROM drive will also have a Web browser (i.e. World Wide Web viewer). *Netscape*® is currently the most popular. While the IJVR was unable to receive permission to include it on the CD-ROM, readers may download that particular browser in any of its three flavors (Windows, Macintosh, and UNIX/X-Windows) from the Internet ftp site called

[ftp.netscape.com](ftp://ftp.netscape.com). Keep in mind that *Netscape*® is a shareware program. That means if you use it, you are morally obligated to pay for a license.

Using Netscape to view the IJVR is extremely simple. Go to the File menu and chose "Open File ...". Then go to the CD-ROM and click on [ijvr.htm](#). Other Web browsers are very similar.

### *Method 2: Using MOSAIC for Windows included on the CD-ROM.*

We have included the Web browser called *MOSAIC* for Windows on the CD-ROM drive. To use MOSAIC under Windows without setting up an icon, open Windows File Manager and go to the CD-ROM drive. Double click on the [ijvr.exe](#) filename. This will load the MOSAIC for Windows browser and immediately go to the "home page" of the IJVR, which is called [ijvr.htm](#). MOSAIC requires WIN32 32-bit extensions for Windows 3.1 but not for Windows95 or Windows NT. If you need to install them, go to the Program Manager, and under RUN: type `d:\win32\disk1\setup.exe`, or use the "browse" button under RUN: to get find the setup.exe file.

If you wish to set up an icon to double click any time you want to read an IJVR CD-ROM, open Windows Program Manager. Go into the folder (program group) in which you wish the IJVR icon to reside.<sup>6</sup> Go to *File* and *New*. Click on the "Program Item" button, followed by "OK". Fill out the lines requested as follows: *Description*: IJVR, *Command Line*: `d:\ijvr.exe`, *Working Directory*: `d:\`. Here `d:` is the CD-ROM drive. Finally, go to "Browse" for the icon and it will automatically appear at the lower left corner. Finally, click on "OK" to set up the icon. You will get a warning that you must have the proper disk inserted in order to use the icon. After the icon is set up, you can read any issue of the IJVR by merely inserting the CD-ROM and double clicking on the icon.

### *Method 3: Using MOSAIC for Macintosh included on the CD-ROM.*

Go to the CD-ROM. Double click on the MOSAIC.MAC file, which is the Macintosh Mosaic Browser. MOSAIC.PPC is the appropriate file for the Power PC. Notice that a "helper application" is necessary to view the .gif files that are on this CD-ROM. JPEGVIEW is included with the Macintosh files on the CD-ROM for that purpose.

Once the MOSAIC browser is up and running, go to the File menu click on "Open Local ...". Then click on [ijvr.htm](#), which begins the journal content.

<sup>5</sup> Various Web browsers have different colors and may not have the underlines. Most browsers are very customizable, including the size and style of the text displayed. The HTML language permits the viewer much latitude in choosing the format specified by the browser software.

<sup>6</sup> If you want to put the IJVR icon in its own folder, you can create the folder using the same method as creating the program icon. Merely choose "Program group" instead of "Program item" under File and New.

## CALENDAR OF EVENTS

J. Fred Henderson

**September 18-20, 1995:** *International Conference on Virtual Systems '95*, Gifu, Japan. Contact icvs-sec@ojk.gifu-u.ac.jp, FAX: 81 58 230 1895.

**September 22-24, 1995:** *Medical Robotics and Computer Assisted Surgery*, Pittsburgh, PA. Contact joan@ortho.ssh.cor.edu, FAX: 412-623-4333.

**October 4-6, 1995:** *Sixth International Symposium on Micro Machine and Human Science*, Nagoya, Japan. Contact fukuda@mein.nagoya-u.ac.jp, FAX: +81-52-263-6298.

**October 30-November 3, 1995:** *IEEE Visualization '95*, Atlanta, Georgia. Contact bill.ribarsky@oit.gatech.edu, FAX: 404-894-9548.

**November 1-15, 1995:** *Worldwide Wiseperson Workshop*, Chikusa-ku, Nagoya, Japan. Contact furu@biolele.nuee.nagoya-u.ac.jp, FAX: +81-52-789-3166.

**November 20-22, 1995:** *International Conference on Artificial Reality and Tele-Existence/Conference on Virtual Reality Software and Technology '95*, Makurari, Tokyo, Japan. Contact mayumi@nws3.nikkei.co.jp, FAX: +81-3-5255-2860.

**November 27-30, 1995:** *OZCHI '95 (Computer Human Interaction Special Interest Group of the Ergonomics Society of Australia)*, Wollongong University, Australia. Contact ozchi95@uow.edu.au, FAX 61 42 214474.

**December 14-15, 1995:** *VRML 95 (The First Annual Symposium on the Virtual Reality Modeling Language)*.

For more information:

<http://www.sdsc.edu/Events/vrml95>.

**January 17-20, 1996:** *Medicine Meets Virtual Reality*, San Diego, California. Contact 70530.1227@compuserve.com, FAX: 619-751-8842.

**March 19-23, 1996:** *Technology and Persons with Disabilities*, Los Angeles, California. Contact ltm@csun.edu, FAX: 818-885-4929.

**March 29-April 3, 1996 (tentative):** *VRAIS '96 (IEEE Virtual Reality Annual International Symposium)*, San Francisco Bay Area. Contact bryson@nas.nasa.gov, FAX: 415-604-3957.

**May 20-24, 1996:** *Informatique Montpellier '96, "Interface to Real & Virtual Worlds,"* Montpellier, France. Contact Jeanclaude.Rault@utopia.fnet.fr, FAX: +33 1 47 78 18 38.

Send your notices including the dates, name of the event, sponsoring organization, location, contact email address and fax number to Fred Henderson, ijvr@net.usa, or FAX: 719-486-3652. In the future, we shall accept a short paragraph description, including an invitation for papers and submission deadlines.

## STANDARDS

### NEW ON THE STANDARDS SCENE:

Several new projects have recently been approved by the IEEE Standards Board. Inter-society agreements of global scope were also explored at the recent Geneva meeting. Participation in these efforts is open, as detailed on the {{reports of recent standards activities}} contained on the CD-ROM. A survey form for working group participation is included on the last page of the IJVR. Please xerox it and send us a filled in copy of your interests.

Of particular interest to IJVR readers is the VR Glossary contribution featured in the article on page 35 of this issue. Another new endeavor under consideration by the IEEE Standards Board is the possible formation of a *Standards Coordinating Committee*. The Standards Board solicits expressions of interest from VR enthusiasts everywhere. A study group on VR motion simulation systems has been proposed by Richard Blade. {{Details}} are on the CD-ROM.

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## SPONSORS

The IJVR does not solicit nor does it accept donations to help subsidize operations. However, we accept grants for special projects, and we sell multimedia advertising on the CD-ROM accessible through short paragraphs placed in this section. Contact Fred Henderson, Managing Editor of the IJVR, for additional information.

**EVANS AND SUTHERLAND**, 600 Komas Drive, P.O. Box 59700, Salt Lake City, Utah 84108. Voice: (801) 582-5847, FAX: (801) 582-5848.

See the results of our compact, special-purpose image generator designed to produce imagery for VR applications on the CD-ROM in the Winter 1995 issue of IJVR. The generator produces photo-realistic 3D images using texturing, anti-aliasing, and smooth-shading techniques.

**ENGINEERING ANIMATION, INC.** Headquarters: ISU Research Park, 2625 North Loop Drive, Ames 50010. 800-324-6777.

One of the nation's leading computer visualization companies, Engineering Animation, Inc. provides three-

dimensional computer animation products and markets its commercial software *VisLab*<sup>TM</sup>, to the engineering, biomedical, litigation and entertainment communities. EAI's success stems from its expertise in litigation, engineering, and biomedical visualization, as well as a strong dedication to scientific accuracy. With funding awarded from the U.S. Department of Commerce Advanced Technology Program, EAI is developing a 3D database of the human musculoskeletal system to create products for use in education and training, and to provide visualization services for the medical community.

See demonstrations of several of our animations on the CD-ROM in the Winter 1995 issue of *IJVR*.

**SYNTHONICS CORP.**, 3138 Via Colinas, Suite 106, Westlake Village, CA 91362. Voice: (818) 707-6000; FAX: (818) 707-1445; Email: CompuServe: 75057,1445; Sythoncsp.

Synthonics develops and markets 3D *analytical* and *presentation* software products for the PC Windows market. The analytical products generate 3D databases, 3D wireframes, and automatically texture mapped 3D surface models of any object that can be photographed or video taped. The *presentation* products allow the viewer to see images that display true depth perception when viewed using a VR headset, LCD shutter glasses, or red/blue 3D glasses. The software products feature low polygon count models with photographic quality rendered images. These 3D models are useful for Internet and high-speed video game and interactive media presentations.

The anaglyph stereo image generator *3DMaker*<sup>TM</sup> referred to in Richard Blade's article, *STEREOGRAPHIC PHOTOGRAPHY ON THE COMPUTER*, is available to *IJVR* readers for \$58 (normally \$69).

The *Wireframe Express*<sup>TM</sup>, also referred to in Richard Blade's article, is also available to *IJVR* readers at the substantially discounted price of \$182.50. To place an order for either *3DMaker* or *Wireframe Express*, follow the instructions in the *Wireframe* ad or phone 1-800-IPI-IJVR (1-800-474-4587).

**3DTV CORPORATION**, P.O. Box Q, San Rafael, CA 94913-4316. Voice: (415) 479-3516; FAX: (415) 479-3316.

Those who wish to do work with stereoscopic graphics or video can now have low cost universal interfaces that can drive LCD stereo glasses and several models of low cost StereoVisors (LCD viewing glasses). 3DTV offers complete systems for interactive stereo imaging or viewing for nearly any computer or video system for any size screen or audience for less than a tenth the previous cost. See our special offer for *VRMagic*<sup>TM</sup> stereo shutter glasses and other stereo products available only through *IJVR*. *VRMagic* is available for \$135 (normally \$150). To place an order for VR Magic or other 3DTV stereo products, follow the instructions in the VR Magic ad or call 1-800-IPI-IJVR (1-800-474-4587).

## THE IJVR TEAM

### Host Institution:

University of Colorado - Colorado Springs, Linda Bunnell Shade, *Chancellor*.

### Management:

Richard A. Blade, Physics, University of Colorado at Colorado Springs, *Editor-in-Chief*. *{{photo}}*, *{{bio}}*

J. Fred Henderson, *IJVR* Business Office, *Managing Editor*. *{{photo}}*, *{{bio}}*

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### Technical Advisors:

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Gregor Novac, Indiana University - Purdue University Indianapolis, *Macintosh multimedia*.

Dean Zollman, Kansas State University, *Digital video*. *{{bio}}*

### Content Editors:

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Max M. North, Clark Atlanta University, *Social sciences*. *{{photo}}*, *{{bio}}*

Mary Lou Padgett, Auburn University, *Standards*. *{{photo}}*, *{{bio}}*

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Marilyn Panayi, City University of London (UK), *Medical rehabilitation applications*. *{{bio}}*

Veronica S. Pantelidis, East Carolina University, *Educational applications*. *{{photo}}*, *{{bio}}*

David Roy, City University of London (UK), *Medical applications*. *{{bio}}*

## IEEE NEURAL NETWORKS COUNCIL

**STANDARDS SURVEY: PARTICIPANTS WANTED!**

**Computational Intelligence (CI) \* Neural Networks (NN)**  
**\* Fuzzy Systems (FZ) \* Evolutionary Systems (EC)**  
**Virtual Reality (VR)**

**Important:** To insure your proper place on the IEEE Standards Roster for Standards on CI, NN, FZ, EC, and/or VR roster and mailing list, please complete this survey and return to Kathy Doty, **IEEE Standards, 445 Hoes Lane, Piscataway, NJ 08855 FAX (908) 562 1571**. For details, [m.padgett@ieee.org](mailto:m.padgett@ieee.org) or [r.blade@ieee.org](mailto:r.blade@ieee.org).

Area of Interest	CI Overview of NN,FZ,EC and/or VR	NN Glossary & Paradigms	NN Performance (FF-MLP)	NN Training (MLP)	FZ Glossary	EC Glossary	VR Glossary
Member							
Info Only							

Interest Category	User:	Producer:	General:
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Note: Academic with commercial, government or other contracts or consulting activities implies General.

Consumer/Consumer Org.:	Insurer:
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Distributors & Retailers:	Manufacturers:
Experts:	Professional Societies:
Government (users, general):	Regulatory Agencies:
Industrial/Commerce:	Testing Agencies:
	Trade Associations:

**Plan to Attend:**

VRAIS '96:	IEEE TAB/RAB/USAB
IEEE/FUZZ/IFES'96:	IEEE Standards Board
ICNN/ICEC'96	WCCI when next scheduled
WNN/WCI'96	Other:

**Technical Publications Read on a Regular Basis:**

IEEE Transactions on NN	Other:
IEEE Transactions on FZ	

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