

Networking the World TM

The Institute of Electrical and Electronic Engineers, Inc.

IEEE Vision

To advance global prosperity by fostering technological innovation, enabling members' careers & promoting community world-wide.

IEEE: Networking the World

- Foster technological innovation
- Enable members' careers
- Promote community worldwide
- World's largest technical professional society
- More than 375,000 members in more than 175 countries.
- IEEE members have advanced the profession, and develop technologies that benefit humanity.

Enabling Members' Careers

IEEE encourages professional vitality through life-long learning for its members.

- International & local conferences, seminars & professional meetings for career development & networking
- Opportunities to develop leadership & other personal skills through volunteer activities
- More than 300 continuing education & training programs
- Career management tools & resource materials
- Financial services & portable benefit programs

Fostering Technological Innovation

IEEE produces about 30% of the world's literature on electrical engineering, electronics & computing.

- A publishing program of periodicals, books, standards, conference proceedings, electronic products & mixed media
- Over 300 annual IEEE conferences
- Over 700 standards development groups
- 37 Technical Societies & 4 Technical Councils

Promote Community Worldwide

IEEE creates a sense of family & a community of members worldwide by:

- Extensive network of IEEE Societies, Sections, Chapters & Student Branches
- Serving as a vehicle to promote the industry & the profession
- Recognizing engineers' accomplishments through peer awards
- Establishing cooperative agreements with other technical societies around the world

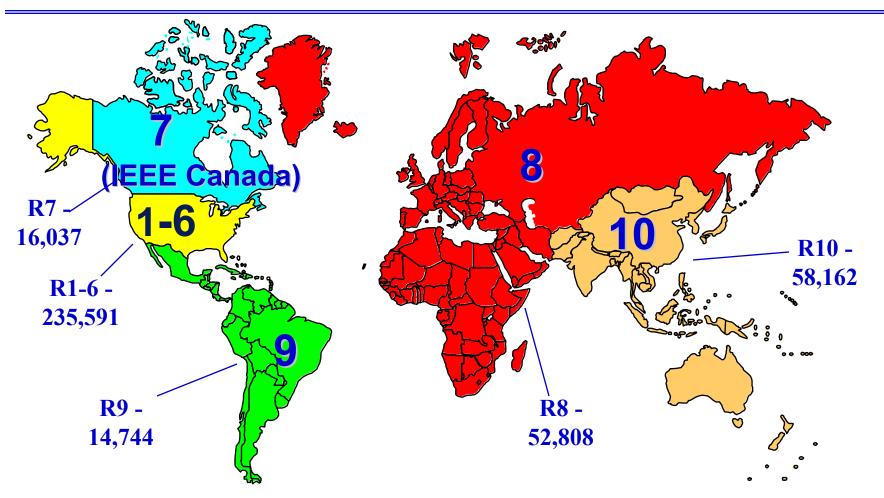
IEEE Mission

The IEEE promotes the engineering process of creating, developing, integrating, sharing, & applying knowledge about electro- and information-technologies & sciences for the benefit of humanity & the profession.

Regional Activities

IEEE Membership By Regions

31 December 2001



TOTAL - 377,342

Geographic Units 31 December 2001`

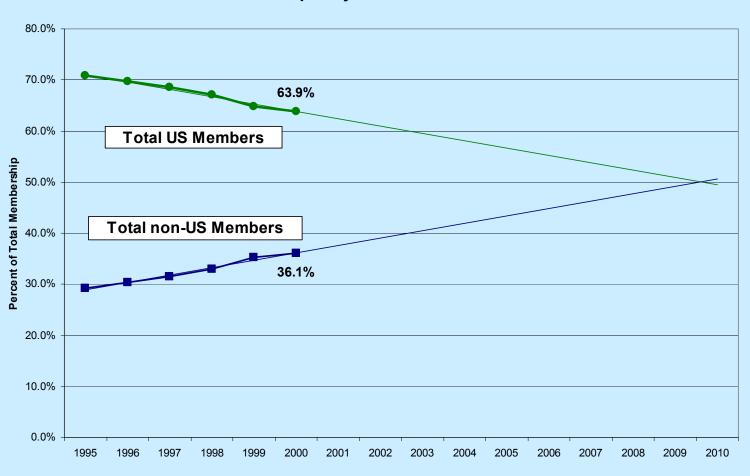
Regions	10
Areas (in some Regions)	24
Councils (in some Regions)	21
Sections	298
Subsections (in some Sections)	49
Society Chapters (in some Sections/Councils)	1,284
Student Branches	1,156
Student Branch Chapters	295

3,137

Total Geographical Units

US/non-US Membership Projections

Membership Projections - US vs non-US



Average Age of IEEE Members

Average Age of Members					
Region	High Grd	Students	Overall		
Region 1	50.3	25.7	48.4		
Region 2	49.9	25.8	47.6		
Region 3	49.4	26.2	46.4		
Region 4	46.9	24.8	43.6		
Region 5	46.4	24.8	43.7		
<u>Region 6</u>	<u>48.2</u>	<u> 26.6</u>	<u>46.4</u>		
US Subtotal	48.7	25.7	46.3		
Region 7	43.9	24.6	39.7		
Region 8	41.6	25.2	38.1		
Region 9	38.7	23.9	32.2		
Region 10	<u>38.5</u>	<u>22.6</u>	<u>34.4</u>		
Non-US Subtotal	40.4	23.8	36.1 🖊		
TOTAL	46.0	24.6	42.6		

There is a 10 Year difference in the average age between US and non-US Members

Region GOLD Membership*

	Total HG	Active GOLD	Percent
Region 1	40,718	4,910	12%
Region 2	32,201	4,426	13%
Region 3	27,492	4,793	17%
Region 4	22,036	4,277	19%
Region 5	27,635	5,614	20%
Region 6	58,967	8,972	15%
Region 7	12,087	3,169	26%
Region 8	38,098	7,072	18%
Region 9	7,627	3,074	40%
Region 10	40,954	13,593	33%
Totals	307,815	59,900	19%
*Yea	r End 2000		

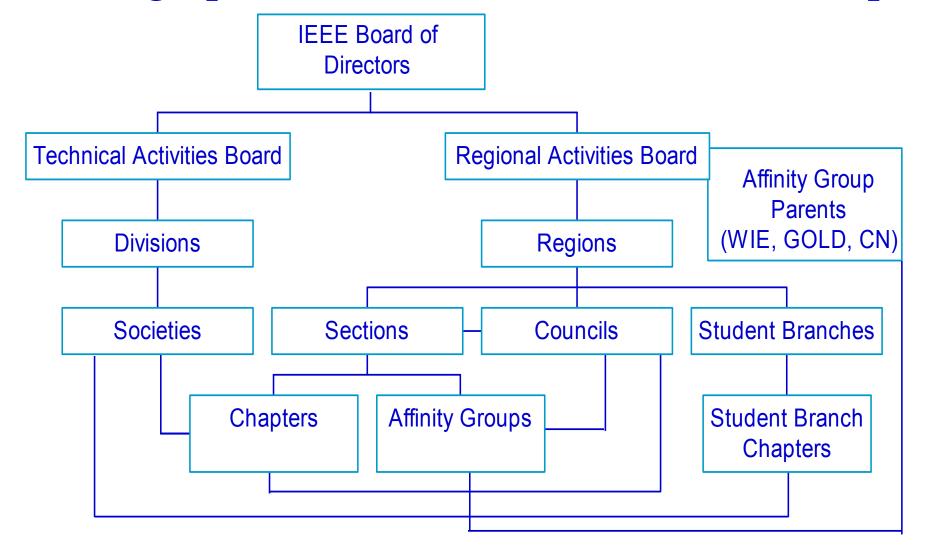
IEEE Student Membership

Region	2001 Total	1998 Total
1	3,701	2,249
2	3,581	3,023
3	4,440	4,174
4	3,881	3,811
5	4,161	4,534
6	6,328	4,073
7	3,504	3,169
8	12,152	8,068
9	7,150	5,369
10	16,771	8,925
Total	65,669	49,395

Career & Educational Activities Enabling Careers through Life-long Learning

- Continuing education programs organized by Sections can be tailored for local membership needs.
- These activities are most important, since they are planned by members & cater directly to member needs.
- Section Education Chair's Guide to Planning Successful Educational Programs provides guidelines for organizing continuing education activities.

Geographic & Technical Unit Relationships



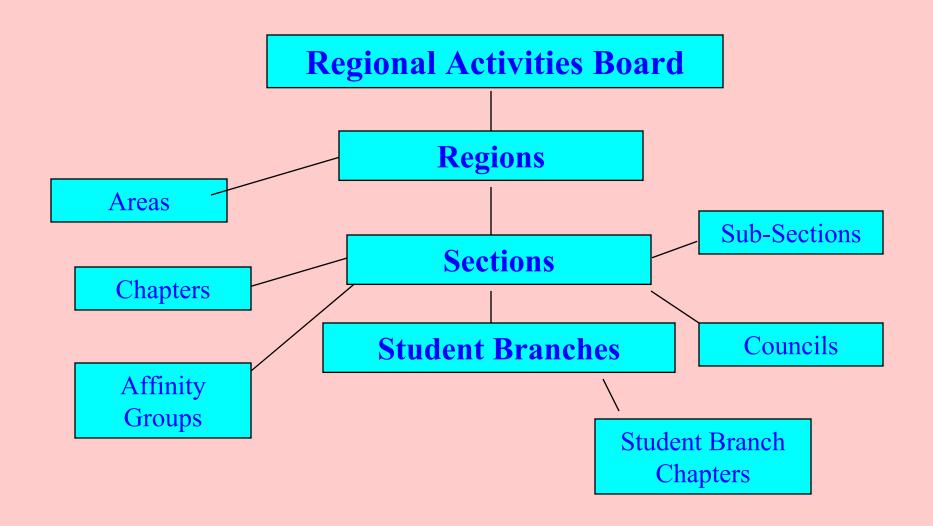
Geographic Unit Relationships

- Regions oversee Sections
- Sections oversee Subsections, Chapters and Affinity Groups
- Councils are comprised of Sections, and exist at the pleasure of the member Sections
- Some Councils (but not all) have Chapters and Affinity Groups, and therefore oversee them

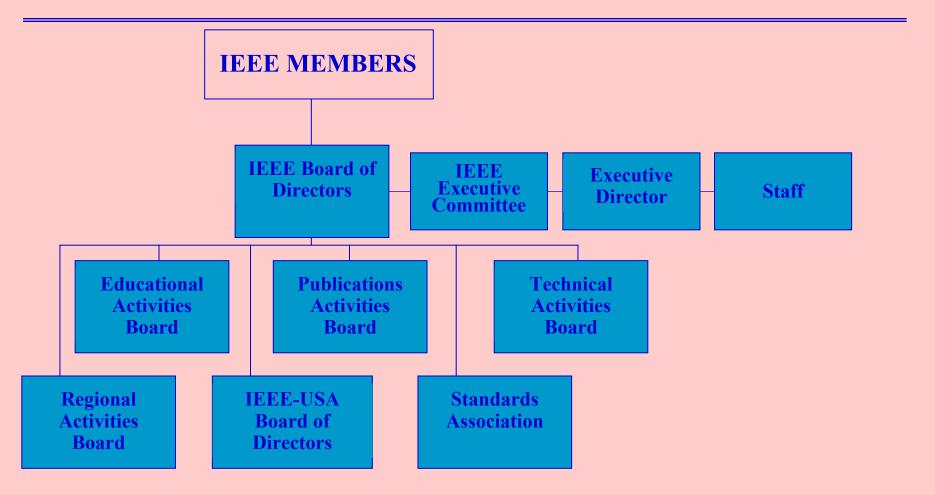
Geographic Unit Relationships

- Affinity Group Parents also oversee Affinity Groups (WIE, Consultants' Networks, GOLD)
- Student Branches oversee Student Branch Chapters
- Societies also oversee Chapters and Student Branch Chapters

Regional Structure



IEEE Organization



IEEE Regional Activities Staff

Cecelia Jankowski Managing Director

Section/Chapter Activities

Tracy Hawkins

Manager

- · Vicki Waldman, Supervisor
- · Peggy Kovacs, Coordinator

Asia/Pacific Operations Center

Fanny Su Manager

Brussels - Operations Center

Jacques Kevers

Manager

Membership Activities

Michael Binder
Director, Membership

- William Hunter, MD Coordinator
- Fern Ziegler, MD Coordinator
- Donna Dukes, A&A Supervisor
- Olyne O'Reggio, Application Processing - Supervisor

Student Activities

Laura Durrett Manager

Member Operations

Cathy Downer
Project Manager

Strategic Planning/ Regional Activities Administration

Dan Toland Manager

Information Processing

Vera Sharoff
Manager

RAB Publications

Mary Campbell
Editor, IEEE Potentials

Regional Activities Responsibilities

- Services for members, including students
- Services for geographic volunteers
- Admission & Advancement
- Membership Development
- Services for Transnational Committee

...Services for ALL Members

Services for Transnational Board, Geographic Entities & Others

Administrative
Policy, Officer Rosters, Entity Formation, Bylaws,
Statistics, Supplies & Labels

Program Development Sections Congress

Financial **Rebates, Custody Accounts**

Student Services

Electronic Communication SAMIeee, Email, Web, Entity Web Hosting

Section Rebate Program

- \$1800 Flat Fee PLUS:
 - \$3/member (Students & Affiliates included)
 - \$180/eligible Chapter & Affinity Group
 - 10% bonus for reporting on time (Feb)
 - Unit and subunits must comply with activity and reporting requirements

Region Assistance

- Section Support Via Regions (SSVR)
 - Funds set aside by RAB each year
 - To be used at the discretion of the Region
 Director

Electronic Services Available

- SAMIEEE
- Entity Web Hosting
- Majordomo lists
- Geographic Roster
- Email aliases

http://www.ieee.org/organizations/vols/

Click on "Electronic Web Services"

SAMIEEE

- Section Access to Member Information
- Updated monthly (download from web)
- Provided to the Section for dissemination to subunits
- Use is restricted to IEEE-related activity

SAMIEEE, the Program

- Or SAMIEEE the data
- FoxPro database
- But you can use it in any database management software you choose
- Filter capability
- Export data as needed
- Monthly import & update function

Entity Web Hosting (EWH)

- Host your unit's web page on the IEEE server free of charge
- 10 MB space allowed per unit
- Templates available for use http://ewh.ieee.org/

Geographic Roster

- http://www.ieee.org/roster
- Must have an IEEE web account and must be listed in the Roster in order to have access
- Updated every two weeks
- Includes all Region, Section, and Council officers as reported to IEEE Staff
- Updates? officer-data@ieee.org
- Data extracted directly from IEEE member database

IEEE Email Aliases

- One email address . . . no matter how many times you change jobs or ISPs!
- Virus-checking on all attachments
 - Attachment deleted if virus detected
 - Notification sent to recipient & sender

http://eleccomm.ieee.org/personal-aliases.shtml

IEEE Awards & Recognition

Peer recognition to individuals whose contributions to the art and science of electro- and information technologies world-wide have improved the quality of daily life

- Medal of Honor/IEEE
 Medals
- IEEE Fellows
- Technical Field Awards
- Honorary Membership
- Service Awards

- Corporate Recognition
- Prize Paper Awards
- Society & Conference Awards
- Public Service & Professional Recognition
- Geographic Unit Awards

Chapters

IEEE Society Chapter Funding

- Section is rebated \$180 per chapter
- This occurs only if the Chapter reports
- Societies may provide funding for Chapter initiatives (contact the Society Chapter Coordinator)
- Joint Chapters may be eligible for funding from both Societies

Society Chapter Services

- Chapter Subsidies and special programs
 - Approval and processing of payments
 - To request more information send inquiries to:
 - "tad-chap-dev@ieee.org"
- Electronic Chapter Membership Listings
 - lists of eligible society chapter members and their contact information
- Chapter Membership Mailing Labels
 - mailing labels for use in coordinating chapter activities and special events

http://www.ieee.org/organizations/tab/officers.html

Technical Societies and Councils

Societies and Councils (1)

- IEEE Aerospace and Electronic Systems
- IEEE Antennas and Propagation
- IEEE Broadcast Technology
- IEEE Circuits and Systems
- IEEE Communications
- IEEE Components, Packaging, and Manufacturing Technology
- IEEE Computer
- IEEE Consumer Electronics
- IEEE Control Systems
- IEEE Dielectrics and Electrical Insulation
- IEEE Education
- IEEE Signal Processing

- IEEE Electromagnetic Compatibility
- IEEE Electron Devices
- IEEE Engineering in Medicine and Biology
- IEEE Engineering Management
- IEEE Geoscience and Remote Sensing
- IEEE Industrial Electronics
- IEEE Industry Applications
- IEEE Information Theory
- IEEE Instrumentation and Measurement
- IEEE Lasers and Electro-Optics

Societies and Councils (2)

- IEEE Robotics and Automation
- IEEE Magnetics
- IEEE Microwave Theory and Techniques
- IEEE Neural Networks
- IEEE Nuclear and Plasma Sciences
- IEEE Oceanic Engineering
- IEEE Power Electronics
- IEEE Power Engineering
- IEEE Professional Communication
- IEEE Reliability
- IEEE Social Implications of Technology

- IEEE Solid-State Circuits
- IEEE Systems, Man, and Cybernetics
- IEEE Ultrasonics, Ferroelectrics, and Frequency Control
- IEEE Vehicular Technology

- IEEE Council on Superconductivitiy
- IEEE Sensors Council
- IEEE Intelligent Transportation Systems Council
- IEEE Nanotechnology Council

Society Activities

- Technical Information
 - Publications
 - What's New
 - Conferences
 - Distinguished Lectures
- Standards Development
- Awards and Recognition
- Support Student and Chapter Activities
- Other services

Distinguished Lectures Program

- A personal visit from a renowned expert
- Offered by Societies or Councils
- Provides outstanding technical content at a meeting
- Visit counts towards meeting requirements
- Opportunity to enhance Chapter activities

More on Distinguished Lectures

- Each sponsoring Society or Council coordinates its own program
- Funding determined by the Society
- Society determines which entities are eligible
- More information at:
- http://www.ieee.org/organizations/tab/cialectweb2.html

How to get a Distinguished Lecturer

- 32 Societies participate in the program
- There are different rules among the Societies
- Arrangements must be made directly with the sponsoring Society
- For details contact:

society-lecturers@ieee.org

Distinguished Lectures

- Trialed new electronic format:
 - **↑**IEEE Communications Society
 - **↑**IEEE Engineering Management Society
 - **↑**IEEE Power Engineering Society
- CD format coupled with conference call for questions targeted at bringing technical information to Sections and Chapters
- Less valuable than in person lecturers

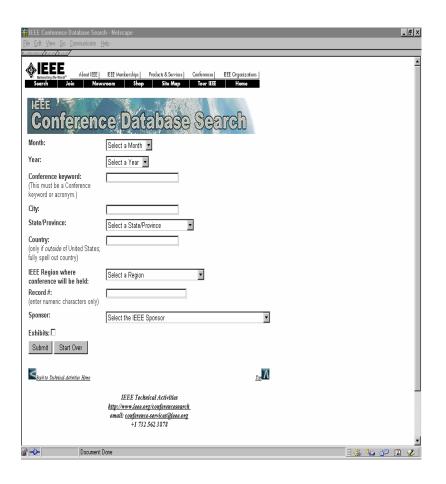
Society Support for Student Activities

- Society-sponsored student awards and scholarships
- Discounts on society membership and publications
- Student rates and Special events at conferences
- Student representatives to Society AdCom

Conferences

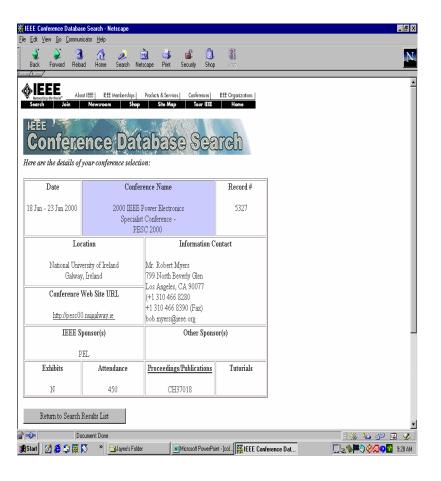
- Annually more than 100,000 participants at 300 Society/Council sponsored Conferences
- Additionally there are numerous technical meetings sponsored by Regions, Sections, and Chapters
- IEEE Conference Search: www.ieee.org/conferencesearch/

Conference Search



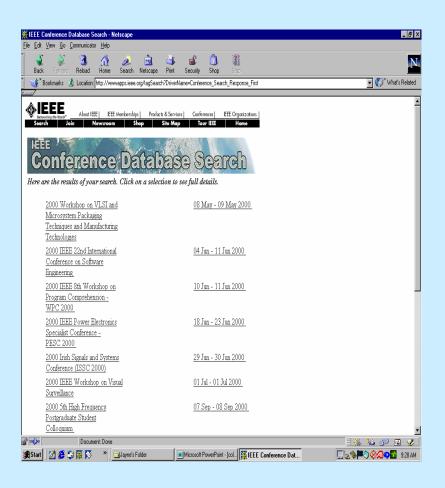
- Search by:
 - month
 - year
 - key word
 - location
 - sponsor
 - IEEE Region

Detailed conference information



- Specifics on date and location
- Contact information
- link to conference URL
- attendance
- exhibits
- link to purchase proceedings

Conference Search



- List of all conferences that meet search criteria
- Click on one for detailed conference information

Organizing a Conference

- IEEE Conference Organization Manual
- IEEE Best Practices Manual
- Planning Calendars
- Forms
- Financial Policies
- Budget Tools
- Web Registration
- Credit Card Processing
- Contracting Support and more...

www.ieee.org/organizations/tab/conflink.html

Publications

IEEE Publications

- World's leading publisher in Electrical and Computer Science
- Spectrum Magazine award winning monthly publication
- The INSTITUTE news supplement to Spectrum
- IEEE *Potentials* Magazine quarterly magazine for student and recent graduate members
- OPeRA (Online Periodicals Research Area) search, browse selected IEEE Transactions & Journal to members of participating technical societies
- IEEE/IEE Electronic Library (IEL) 32% of world's current literature in electrical engineering and computer science.

http://www.ieee.org/organizations/pubs/pubs.html

Technical Publications

- 79 Transactions and Journals (archival publications)
- 29 Society/Council Magazines
- 21 Society/Council Newsletters
- 350+ Conference Proceedings annually

What's new in Publications?

- Large and growing scope of content
- Different methods of access (e.g.Electronic, Paper)
- New packaging of information
 - Individual article access
 - Specialized packages
- Improving authoring process

New Technical Information Packaging

- IEEE Digital Library for Members
 - Member Access to all IEEE publications
- IEEE Biomedical Library Online
 - Access to selected subset of IEEE articles related to Biomedical activities

New Content Areas

- Six new journals
 - IEEE Transactions on Wireless Communication
 - IEEE Antennas and Wireless Propagation Letters
 - IEEE Transactions on Nanotechnology
 - IEEE Transactions on Mobile Computing
 - IEEE Pervasive Computing Magazine
 - IEEE Transactions on NanoBioscience

Access to Technical Information

- Electronic Access
 - IEEE Xplore *

http://www.ieee.org/ieeexplore

• What's New @ IEEE *

http://whatsnew.ieee.org/

• Ask*IEEE

http://www.ieee.org/services/infoadvantage/

IEEE XploreTM

- Contains over 756,400 documents published since 1988
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Tables of Contents Journals & Magazines Conference	Name: John Doe Enter your email address: j.d.doe@ieee.org	
Proceedings - Standards Search	Update Reset	"E-Mail Alerts" Personalized alert when
O- By Author O- Basic O- Advanced	If you would like to unsubscribe from this serv Unsubscribe	latest issue is released. User picks periodicals from list.
O- Join IEEE O- Establish an e-account	Submit Selection Reset A B C D E F G H I J K L M N O P Q R S T U V W X Y Z Acoustics, Speech, and Signal Processing [see also IEEE Transactions on Signal Processing, IEEE Transactions on Advanced Packaging, IEEE Transactions on [see also Components, Be larging and Manufacturing Technology, Part B: Advanced Packaging, IEEE Transactions on Aerospace and Electronic Systems, IEEE Transactions on Annals of the History of Compacting, IEEE Ankennas and Propagation, IEEE Transactions on Applied Superconductivity, IEEE Transactions on ASSP Magazine, IEEE [see also IEEE Signal Processing Magazine]	

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Accepted for future publication

2001 issues:

Oct. 2001, Vol.31, Issue 5
Aug 2001, Vol.31, Issue 4
Jun 2001, Vol.31, Issue 3
Apr 2001, Vol.31, Issue 2
Feb 2001, Vol.31, Issue 1

Previous Years:

<u>2000</u> <u>1999</u> <u>1998</u>

<u> 1997 | 1996</u>

For IEEE Members and Publication Subscribers:

Journals & Magazines

Release 1.2

To quickly search the abstract and citation records of this publication:

 Enter a keyword, phrase, or Boolean expression. Example: acoustic imaging

Example: Jones and 1998 2) Click Search.

Search

Note: This function returns plural and suffixed forms of the keyword(s).

Publication Information:

About this publication;
IEEE Information for Authors;
Additional Information for Authors;

Sponsoring IEEE Society/Societies:

"Forthcoming Articles"

Articles online before print.
Still reviewed and edited first.

Home Search by Author

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This object is part of the following article:

Linguistic description of relative positions in Systems, Man and Cybernetics, Part B, IEEE Transa

Volume: 31 Issue: 4

Year: Aug 2001

"Extended Objects"

Multimedia enhancements to articles.

Can be used by both print and online subscribers.

The object is designed to be used on a Windows platform. It is compressed using the Zip format.

The compressed file includes:

This supplementary multimedia content includes six AVI format animations (discussed in Section V-A of the article), which show natural scenes with linguistic descriptions.

31smcb04-matsakis-mm.zip

(2.1 MB)

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What's New @ IEEE



Timely email updates on IEEE news and more!

WHAT'S NEW @ IEEE RECEIVES GOLD CIRCLE AWARD

What's New @ IEEE has received the 2000 Gold Circle Trophy in Electronic Newsletters/Bulletins. The Gold Circle award is presented by the American Society of Association Executives (ASAE), ASAE has consistently recognized excellence in association communications for more than 20 years. Special thanks to all of our readers for your help in making our efforts a success.

What's New @ IEEE for Members

VOLUME 1 NUMBER 6 NOVEMBER 2000

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- 1. Top 10 Digital Workplaces
- Making the Most of Membership: Local Meetings
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- 9. A Space Station in Search of a Name
- Roadmap to Success From IEEE Fatbrain
- 11. The Internet... What's Next?

WHAT'S NEW SPECIAL

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1. TOP 10 DIGITAL WORKPLACES

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- Opt-in
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- Tailored to specific members' interest
- Over 100,000 subscriptions, up from 67,000 in 2000

What's New @ IEEE Categories

- What's New @ IEEE for Members
- What's New @ IEEE for Graduates of the Last Decade
- What's New @ IEEE in Communications
- What's New @ IEEE in Computing
- What's New @ IEEE in Circuits
- What's New @ IEEE in Power
- What's New @ IEEE in Signal Processing
- What's New @ IEEE in Wireless
- What's New @ IEEE for Students
- What's New @ IEEE for Libraries

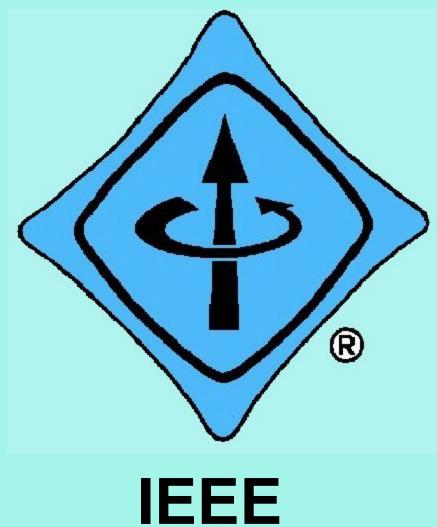
http://whatsnew.ieee.org/

Improving the Authoring Process IEEE Manuscript Central

- Web based manuscript submission and peer review system
 - Author submits article via web
 - Review done via secure web site
 - Editor tracks article progress
 - System helps with reminders
- Piloted in 1999
- 27 Publications using Manuscript Central

Volunteer Opportunities

- Section officer
- Chapter officer or Chapter coordinator
- Committee Chair
- IEEE Society officer
- Conference organizer
- Publication editor or co-editor
- Liaison with other groups
- Member of Technical Activities Board



Networking the World TM

The Institute of Electrical and Electronic Engineers, Inc.

sections and the second section of the second secon congress

Sections Congress 2002

- JW Marriott Hotel, Washington, DC
- 18-21 October 2002
- Triennial gathering of IEEE grassroots leadership to
 - network with other Section leaders
 - attend training programs
 - develop recommendations to guide the future of the Institute

Representation at SC '02

- Each Section is encouraged to send one or more Delegates to this event
- Section leaders (present or future) are the target audience
- Registration fee of \$260 is waived for primary delegate
- Primary delegate represents their Section when voting on recommendations



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