



IEEE Dallas Section: Direction

February 2009

Volume 52, Number 6



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From the Chair

By *Larry Zhang*

February is often the starting month for a lot of chapter activities for the Dallas section and things are getting more interesting for most members as well. This month we have started the formation process of a new Instrumentation and Measurement Society Dallas Chapter. IEEE members in Dallas section who are already the IM society members are welcome to sign up for the mailing list and sign up for the petition process to get the Chapter approved from the region and IEEE headquarters. The first monthly meeting for IM is targeted for March.

Later this month the section will also send several of our leaders to attend the IEEE USA annual meeting in Salt Lake city to exchange ideas with other sections and Chapters all from the US on how to improve our Chapter activities and how to increase our membership. Also we have appointed the new GOLD chair and WIE chair to help revitalize our activities in those 2 affinity Groups. Graduates of the Last Decade (GOLD) affinity group is a program developed to help student members transition to young professionals. IEEE Women in Engineering (WIE) affinity group is the largest international professional organization dedicated to promoting women engineers and scientists.

In our February board meeting, the board has decided to form a section strategic planning committee to plan and map the goals and directions for where Dallas section will be in the next 5, 10, or even 15 years from now to look

beyond our current activities. April to May time frame, we will organize our award banquet to recognize our great volunteers and section and Chapter leaders in the past years. We will also recognize some of our excellent speakers and presenters and the most active Chapters. We will have another officer training meeting to provide a venue to exchange ideas among Chapter volunteers and leaders to improve our meeting activities and membership attendance. We will organize our first senior member upgrades in May 2009 time frame to recognize and elevate our members who have contributed to our profession and the industry.

IEEE board of directors will recognize the integrated circuits and a few other IEEE achievements as IEEE milestones and we will celebrate these great events with Texas Instruments.

We need to achieve two goals for 2009: Firstly, to increase the IEEE membership in Dallas metro area. Secondly, we need to improve our Chapter activities. With the effort and vision from all of us, these are modest and achievable goals for the section in 2009.

I appreciate the effort from all the section and chapter volunteer leaders and welcome more members to participate in our activities.

Larry Zhang

Joint meeting between IEEE Dallas Section and IEEE Consultants network

- Topic:** Influential Communication
- Date:** Monday, February 9, 2009
Time: Social/Networking/Dinner 6:15 pm Program 6:45 pm.
Location: Holiday Inn Select, 1655 North Central Expressway, Richardson, TX (south of Campbell Road, west side of Central)
Speaker: Sam Palazzolo, CPLP, MBA, Executive Coach and Leadership Developer
- Cover:** \$5 for IEEE Members, \$15 for non-IEEE Members/Guests (includes light supper buffet) IEEE members who RSVP may bring a guest at no additional charge.
RSVP: http://ewh.ieee.org/r5/dallas/registration/jan_meeting/



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Dallas Section

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Consultants Network (CN)

Topic: Influential Communication

Date: Monday, February 9, 2009

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Cover: \$5 for IEEE Members, \$15 for non-IEEE Members/Guests (includes supper buffet) IEEE members who RSVP may bring a guest for \$5 extra.

RSVP: http://ewh.ieee.org/r5/dallas/registration/feb_meeting/

Description: Communication is the most critical skill that influential leaders possess. Knowing what to say, as well as when and how to say it is the difference between being an "InfluenceR" or someone that gets "Influenced" by those around them! Learn what 3,000+ business leaders do to be at the top of their communication game so that when you compete on the communication battlefield (Work, or home), you win!

Speaker Bio: Sam Palazzolo is President and Chief Influence Officer of Pathos Leadership Group. Palazzolo brings a unique blend of expertise to the daily challenges of leadership under pressure. He is a certified coach, an award-winning trainer, respected businessman and author of "The Influential Leader: 10 Critical Skills You MUST Possess For Success" (2008) as well as several leadership articles published in over 50 periodicals. He is recognized as the creator of the most innovative programs combining leadership development with the science of influence and persuasion: Influential Communication, Influential Change, Influential Customer Retention, Influential Sales and Influential Team Building.

Palazzolo, is an Adjunct Professor in management at Ashford University (Formerly The Franciscan University founded by the Sisters of St. Francis). He earned his bachelor's degree in economics from Indiana University and a master's in business administration degree from Vanderbilt University. In business he was a key team member in the development of General Motor's SATURN Corporation as well as establishing Toyota's current marketplace dominance. A strong believer in continuous and never ending improvement (KAIZEN!), Mr. Palazzolo holds several professional certifications (Certified Coach and Certified Professional in Learning and Performance - CPLP) and currently works with the School of Management at the University of Texas in their Executive Coaching Program. He holds several board positions with his professional associations (NSA, ICF & ASTD).

With a goal of providing leaders with an "Influential Edge" so that when they compete in business, they succeed professionally as well as personally, Sam founded Pathos Leadership Group in 2005. His "influential" executive coaching, leadership development programs and keynote presentations have helped "Fortune 500 to Main Street USA" leaders get the edge!

With the launch of the "Influential Leader Webinar Series", Palazzolo proved that training and development could take advantage of the internet and clients could receive 30x their investment in return.

Today, as a nationally-recognized professional coach, trainer and speaker, Sam is able to connect with business audiences as few others can: As an influential entrepreneur, corporate leader and business owner.

Discover more at www.PathosLeadershipGroup.com, e-mail sp@pathosleadershipgroup.com or call 817-605-1942.

Communications & Technology (CVT)

Topic: Start - up Convergence Technology Companies in Texas - Panel Discussion

Date: Feb. 17th, 2009

Time: 11:30a start with technical program from 12noon - 1pm

Location: Holiday Inn Select, Richardson TX (West of I-75/one block south of Campbell Road)

Cover: IEEE Members \$5.00 / Non-members \$10.00 (includes lunch)

Speaker: Speakers from 3 different companies: 1) Varaha Systems 2) SNR Labs 3) Bynari Inc.

RSVP: N/A

Program Description: From uMobility and messaging applications, smart software and wireless device integration, this region is seeing the emergence of start-up technology-based companies willing to take a risk to introduce new solutions and products into the market.

Speakers' Biography:

1. Prasad Govindarajan is the CTO from Varaha Systems
2. Chaitali Sengupta is the CTO from SNR Labs and
3. Hyum Kim is the CEO from Bynari Inc.

Note: The State of Texas Emerging Technology Fund provides a platform for such companies.

Website URL: www.cvt-dallas/org/

Aerospace and Electronic Systems (AES)

Topic: Multi-Sensor Data Fusion and Applications

Date: February 24, 2009

Time: Light Buffet 6:30 PM / Program 7:00 PM

Location: Holiday Inn Select - Richardson, 1655 N. Central Expressway, on the south-bound service road of Central Expressway (US-75), south of Campbell Road, and north of Collins Road.

Cover: \$5 for IEEE members / \$10 for non-IEEE members

Speaker: Dr. Pramod K. Varshney, IEEE Distinguished Lecturer, Syracuse University

Program Summary: Multi-Sensor data fusion refers to the acquisition, processing and synergistic combination of information gathered by various knowledge sources and sensors to provide a better understanding of a phenomenon. It is a fascinating and rapidly evolving field that has generated a lot of excitement in the research and development community. These concepts are being applied to a wide variety of fields such as military command and control, robotics, image processing, air traffic control, medical diagnostics, pattern recognition, and environmental monitoring. A number of sensor networks are also being implemented where data fusion is a key component. This talk will present a brief overview of the field and will illustrate its potential by means of some examples.

Speakers' Biography: Dr. Pramod K. Varshney received the B.S. degree in electrical engineering and computer science (with highest honors), and the M.S. and Ph.D. degrees in electrical engineering from the University of Illinois at Urbana-Champaign in 1972, 1974, and 1976 respectively. Since 1976 he has been with Syracuse University, Syracuse, NY where he is currently a Distinguished Professor of Electrical Engineering and Com-

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puter Science and the Research Director of the New York State Center for Advanced Technology in Computer Applications and Software Engineering. His current research interests are in distributed sensor networks and data fusion, detection and estimation theory, wireless communications, image processing, and remote sensing. He is an IEEE Fellow and has received numerous awards. He serves as a distinguished lecturer for the AES society of the IEEE. He was the President of International Society of Information Fusion during 2001.

Website URL: <http://ewh.ieee.org/r5/dallas/aes/>

Engineering In Medicine and Biology (EMB)

Topic: Ultra-low-power electronics for medical applications

Date: Tuesday Feb. 24, 2009

Time: 12:00 Noon – 1:30 pm

Location: Engineering and Computer Science Complex UTD Campus, TI Auditorium ECSS 2.102

Speaker: Dr. Rahul Sarpeshkar
Department of Electrical Engineering & Computer Science
Research Laboratory of Electronics, MIT

Cover: Free to IEEE members, Students, Faculty; \$10 for non-members

Program Summary: Dr. Sarpeshkar will describe techniques and examples for using subthreshold analog and bio-inspired processing or creating ultra-low-power wireless electronics for the deaf, blind, paralyzed, and in other bio-signal sensing or stimulating applications. Such techniques can yield more than order of magnitude power reductions while maintaining high levels of robustness to several sources of noise. They also maintain a good amount of flexibility if they are combined with more traditional digital electronics in a synergistic fashion such that one can exploit the best of the analog and the digital worlds.

Speaker's Bio: Dr. Rahul Sarpeshkar is a principal investigator in the Research Laboratory of Electronics (RLE) at MIT. He obtained BS degrees in Electrical Engineering and Physics at MIT. After completing his PhD at Caltech, he joined Bell Labs as a member of technical staff in the department of Biological Computation within its Physics division. Since 1999, he has been on the faculty of MIT's Electrical Engineering and Computer Science Department. Dr. Sarpeshkar has received several awards including the Packard Fellow award given to outstanding young faculty, the ONR Young Investigator Award, the NSF Career Award, and the Indus Technovator Award. He holds over twenty patents and has authored more than 70 publications including one that was featured on the cover of NATURE. He has given over 100 invited lectures. He is currently an Associate Editor of the IEEE Transactions on Biomedical Circuits and Systems. His research interests include analog and mixed-signal VLSI, biomedical systems, ultra low power circuits and systems, biologically inspired circuits and systems, molecular biology, neuroscience, and control theory.

For more information:
Phone: 972-883-2784
www.embsdallas.org

Microwave Theory and Techniques (MTT)

Topic: Characterizing Phase Noise in Simulators and Test Equipment

Date: Tuesday, February 24, 2009

Time: Lunch 11:30 AM / Program 12:00 noon

Location: Pasand-Indian Cuisine
1377 W Campbell Rd, Richardson, TX
(972) 644-4447 [Map](#):

Speaker: Stan Goldman

Charge: Mandatory \$5 (\$10 for non-IEEE members) includes admission and buffet. No charge for Student and Life Members.

RSVP: [Please RSVP to csanabria@tqs.com](mailto:csanabria@tqs.com) by noon, February 20th, for restaurant headcount.

Abstract: Many CAD and test equipment vendors provide software and equipment that analyze phase noise. In general, these methods are accurate ~80% of the time but there is another ~20% that is unaccounted for. Waiting for silicon to measure phase noise and validate the phase noise measurement adds an unacceptable amount of turn around time in a competitive environment. Furthermore understanding the noise contributors in an oscillator helps design lower noise oscillators. This presentation discusses a method for characterizing phase noise, the effect of external oscillator modulation noise, additional noise after the oscillator, and the effect of output swing, gain, and Q on the noise inside the oscillator.

Speaker Bio: Stan Goldman received his B.S. degree in Electrical Engineering from Carnegie-Mellon University in 1975. He has had a long career designing and developing distinctive Phase Lock Loops for over 25 years at Scientific Communications, E-Systems, Rockwell International, Reliance Electric, and at Texas Instruments Inc. in the Wireless Terminal Business Unit. For over 20 years at Texas Instruments Inc., he has been applying Phase Lock Loop solutions to computer timing, radar transmission and reception, automotive electronic control, and communication systems. His most recent work has been designing low power, small area, and low noise Phase Lock Loops as a Distinguished Member of the Technical Staff for the Wireless Analog Technology Center at TI. Currently he is looking for work opportunities.

He has been a Senior Member of the IEEE and a registered Professional Engineer for over 20 years. Mr. Goldman has published and presented over 24 papers and has 8 US patents on the subjects of frequency synthesizers, oscillators, multipliers, phase noise, Phase Lock Loops, receivers, and signal processing. And finally, he is the author of the Artech House Best Selling book, [Phase-Locked Loop Engineering Handbook](#) (2007) and [Phase Noise Analysis in Radar Systems](#), (Wiley 1986).

More information at the MTT website:
<http://ewh.ieee.org/r5/dallas/mtt/>

Laser & Electro-Optics (LEO)

Topic: Entrepreneurs: Critical Success Factors for Technology Start-up Companies

Date: Wednesday, February 25th, 2009

Time: Refreshment 6:00 PM, Program 6:30 PM

Location: Photodigm Inc., 1155 E. Collins Blvd. #200, Richardson, TX 75083-0938.
Map available at <http://lyle.smu.edu/leos/>

Cover: Free

Speaker: Mr. Roman Kikta

Program Description: As every entrepreneur knows, you need three things to create a successful startup: to start with good people, to make something customers actually want, and successfully raise capital funding at the right time is crucial. Most startups that fail do it because they fail at one of these. A startup that does all three will probably succeed.

Roman Kikta, a seasoned intrapreneur and entrepreneur is the managing partner and co-founder of venture capital firms Genesis Campus and Mobility Ventures. Roman will share his experience and insights on the DNA of a successful entrepreneur-- what it takes to go from idea stage to funding stage. Roman begins by discussing the state of venture capital today, and takes the audiences step-by- step through how seed/ early stage venture capital firms differ from angel investors or larger VC funds, and

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provides a brief explanation of investment criteria and how start-ups can increase their chances for successfully raising capital at the early stage with emphasis on management.

Speakers' Biography: Roman Kikta is the Managing Partner and co-founder of Genesis Campus and Mobility Ventures, Texas-based venture capital funds. A 25 year wireless industry veteran, seasoned entrepreneur, venture capitalist and author, he is an expert in the launch and growth of new products and services. Roman has held senior strategy, marketing, corporate development and product development and management positions with global wireless equipment companies: Nokia, Panasonic, Gold-Star (LG), and OKI. He is also a founder of Global Wireless Holdings (GWH), E-Life (a proposed spinout from Nokia), SpeedLink Communications, and ChangeAgent Media. Roman has written numerous articles and has co-authored four books published by McGraw-Hill on communications technologies including: "Wireless Internet Crash Course", "3G Wireless Demystified", "Delivering xDSL", and "CDMA IS-95 for Cellular and PCS: Technology, Economics and Services" and is also a contributing editor of the The Animated Telecom Dictionary, Mobile Video magazine, NowPublic.com, Dallasblog.com and the Thought Leader Network.

Roman's corporate track-record includes the management of teams that pioneered several wireless industry "firsts" including: cellular pay-phones, cellular in-building and PBX systems, voice recognition dialers, Smartphone, and several generations of mobile phone designs features and functions and the launch of analog (cellular) and digital (PCS) in the U.S. He had instrumental roles in building multiple business units and divisions, brands, market development and channel/distribution development of cellular communications since 1983.

Beginning in the mid-1990s Kikta served as the Director of Marketing for Nokia Mobile Phones PCS Group in the Americas. He then became Nokia's Director of Product Concepts, Applications and Technologies. This assignment took him to over 40 countries where he studied the underlying anthropological, psychological and sociological factors of the individuals markets, which resulted in developing over two dozen new products and services, including the convergence of next generation wireless broadband and wireline networks. Following this Kikta was named Director of Strategy and Business Creation within the Nokia Ventures Organization where he worked to create a balanced portfolio of new sustainable businesses outside Nokia's natural growth path. This involved identifying new growth opportunities, extensive due diligence efforts and business plan development. Expertise in managing start-up organizations incubated from larger companies. Roman left Nokia in 2001 to start Genesis Campus, an early stage venture capital fund with Wu-Fu Chen. Roman serves as the Managing General Partner, responsible for fund formation, raising of capital, making investments and managing the overall portfolio.

As a venture capital investor, Roman has a demonstrable track record in fund formation, operations management and identifying, attracting, evaluating and advising portfolio companies. He has worked closely with entrepreneurs, providing the experience, global perspective, and extensive networks of relationships thereby increasing the probability of success. Roman has a proven ability to identify and invest in emerging opportunities, as well as to scale opportunities across geographies. He is well traveled in Asia, Europe and the Americas. Roman has a finger on the pulse of the marketplace and relationships with technology development centers around the globe via his extensive personal and professional networks that combine domain and operational expertise from seasoned executives and advisors worldwide. This global network includes academics with leading universities, venture capitalists, entrepreneurs, senior corporate managers and thought leaders. Roman possesses significant experience of structuring, negotiating and implementing successful partnerships and multi-party business activities. He's a results driven, motivational leader that fosters creative business solutions to meet or exceed expectations. With a perceptive sense of market trends and opportunities involving technology solutions, Roman has guided Genesis Cam-

pus to be named a "Top 100 Venture Capital Firm for Entrepreneurs" by Entrepreneur Magazine in 2004; Finalist for the Tech Titans Technopolis Award in 2005; Top Venture Capital Firm 2004 by Austin Business Journal. His notable investments include pioneering companies- Spatial Wireless (acquired by Alcatel), Arrowping Networks (acquired by Xinwei), InnerWireless, and Alereon. Roman has sourced deals evaluating over a thousand business plans over the years resulting in over two dozen "seed stage" and early stage investments and has lessons learned from his 5 company shut downs. Roman has exceptional insight, foresight and understanding of opportunities provided by existing and future wireless communications, Internet and related technologies and businesses.

Roman is a Fellow of the Radio Club of America and was named a 2001 High Tech All-Star by DFW Tech Biz. Roman currently serves on the Board of Directors or Advisory Boards of Always@Market, ChangeAgent Media, Hunome, ThoughtLeader Network, the Texas Chapter of the AEA (American Electronics Association), the Entrepreneurs Foundation of North Texas and the University of Texas at Dallas, School of Management - Executive Education. Roman has a B.A. degree from Rutgers University; he is a graduate of the Private Equity & Venture Capital Program at the Harvard Business School and The Strategy & Innovation Program at MIT Sloan School of Management. Roman is a sought after keynote speaker and panelist on future wireless technologies, innovation, entrepreneurship and venture capital issues in the United States and internationally. He also serves as a regular guest lecturer at the Entrepreneurial Finance course at The University of Texas at Dallas, School of Management.

Website URL: <http://lyle.smu.edu/leos/>

Contact Information: Joy Chuang (214) 768-1464
hchuang@lyle.smu.edu

PACE Workshop March 7, 2009, at UTD.

PACE Workshop: Are You Ready for 2009 Life and Job Changes? Experience exercises in class to pinpoint issues you deeply care about as an individual. Determine your choices, unique to you as an individual.

You will learn:

- Proven Techniques to Find Issues You Care About.
- Your Unique Combination of Do Best/Most Enjoy Skills.
- The Power of Written Goals.

Strategies of:

- Dr. Randy Pausch, Really Achieving Your Childhood Dreams.
- Richard N. Bolles, What Color Is Your Parachute?
- John C. Crystal and Richard N. Bolles, Where Do I Go From Here With My Life?
- Peter Elbow, Writing Without Teachers.

Speaker: Mr. Robert B. Bishop, Jr. PE

Date: Saturday, March 7, 2009.

Time: 8 AM to 12 Noon.

Location: UTD, room to be determined.

Cost: \$5. Bring a guest for free, maybe your Spouse?
No Cost: Spouses, Senior Members and Students.

RSVP: Bob Bishop r.bishop@ieee.org 903 815 8788 cell

Dallas Section Chapter Information

Aerospace and Electronic Systems (AES)

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Secretary / Treasurer:	Mark Gober	(972) 205-4752
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Antennas and Propagation (AP)

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Chair:	Mr Narindra Nath Lakhanpal	(972) 387-9243
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Circuits and Systems (CAS)

Website: <http://ewh.ieee.org/soc/cas/dallas/>

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Member Chair:	Ping Gui	(214) 768-1733
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Past Chair:	Liming Xiu	(214) 480-4930
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Communications & Technology (CVT)

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Computational Intelligence (CI)

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Computer (C)

Website: <http://chapters.computer.org/dallas/>

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Consultants Network (CN)

Website: <http://www.ieeedallas.org/>

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Consumer Electronics Society (CES)

Website: <http://www.dallasces.org/>

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Secretary:	Adolfo Echeverria	(972) 742-7579
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Education (E)

Past Chair	William M. Riley	(214) 478-4065
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If you are interested in volunteering/becoming an officer for this society, please contact the past chair, William Riley.

Electromagnetic Compatibility (EMC)

Website: <http://www.dallasemc.org/>

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Electron Devices (ED)

Chair	Zeynep Celik-Butler	(817) 272-1309
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Engineering in Medicine and Biology (EMBS)

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Microwave Theory and Techniques (MTT)

Website: <http://ewh.ieee.org/r5/dallas/mtt/>

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Vice Chair: Jim Carroll
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Program Chair: Hank Largey, Sam Villareal
largey@ti.com

Treasurer: Claudio Montiel
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Secretary: Chris Sanabria
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Webmaster: Wei-men Peng

Student Activities Chair: Bryan Skarke

Membership: Larry Zhang
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Power Engineering (PE)

Website: <http://ewh.ieee.org/soc/pes/dallas/>

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Publicity Chair: Jessica Vance (214) 532-8403
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Webmaster: Stacy Carr (972) 818-0264
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Power Electronics (PELS)

Website: <http://www.Dallaspels.org>

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Vice Chair: Aaron Xu

Treasurer: Zao Yang

Secretary: Brent Markham

Reliability (RL):

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Treasurer: Lon Chase (972) 344-3138
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Membership Chair: Ron Knerr (972) 995-1527
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Signal Processing (SP):

Website: <http://www.utdallas.edu/~kehtar/ieee-sp>

Chair: Nasser Kehtarnavaz (972) 883-6838
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