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[Upcoming Chapter Meetings](#) - summaries

[SJSU Short Courses: VHDL, DSP, Sensors, Device Physics](#)

[Reliability Engineering](#) 8-week course

[Intelligent Control & Soft Computing](#) 3-day course

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Chapter Meetings for December, January:

SCV-CNSV - 12/27 & 1/10: **Entrepreneurs SIG** - this SIG is part of the Consultants' Network of Silicon Valley, and meets on second and fourth Mondays ... [\[more\]](#)

SCV-CPMT - 1/12: **Optical Fiber Coatings: The State-of-the-Art and the Application of a New Nano-material** - a newly developed nanoparticle material as an attractive substitute for existing optical fiber coatings ... [\[more\]](#)

SCV-Com - 1/13: **Broadband Wireless Technologies and Standards** - European broadband radio access networks and WiMax broadband wireless metropolitan area networks ... [\[more\]](#)

SCV-MTT - 1/13: **Film Bulk Acoustic Resonators (FBAR)** - the physics, development history, and role in future radio architectures ... [\[more\]](#)

SCV-Mag - 1/18: **Moore's Law and Magnetic Recording Areal Density - A Processing Perspective** - the growth of magnetic recording density from the perspective of thin film processing ... [\[more\]](#)

SCV-EMB - 1/19: **The Diagnostic Potential of Airway Gas Analysis Using Cavity Ringdown Spectroscopy** - description of a novel spectrometer-based health monitoring system ... [\[more\]](#)

SCV-CPMT - 1/27: **Long Term Trends in Packaging Technology - The International Packaging Roadmap Update** - research needs based on the new 2004 ITRS and NEMI Packaging Roadmaps: cost, thermal performance, electrical performance, size, pin count, reliability, and design ... [\[more\]](#)

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SJSU Department of Electrical Engineering: Winter Short Courses On the SJSU campus

Digital Signal Processing -- 4-day class with labs:

DSP System Design and Implementation [\[more\]](#)
Date/Time: January 18-21, 8:30AM-4:30PM
Instructor: Professor Avtar Singh, Electrical Engineering, SJSU

Digital System Design -- 4-day class with labs:

FPGA DSP System Design [\[more\]](#)
Date/Time: January 18-21, 8:30AM-4:30PM
Instructor: Professor Chen Choo, Electrical Engineering, SJSU

Digital Design -- 4-day class with labs:

VHDL for Synthesis and Verification [\[more\]](#)
Date/Time: January 18-21, 8:30AM-4:30PM
Instructor: Professor Tri Caohuu, Electrical Engineering, SJSU

Microelectronic Device & Technology -- 4-day class:

Device Physics and VLSI Technology [\[more\]](#)
Date/Time: January 18-21, 8:30AM-4:30PM
Instructor: Professor Lili He, Electrical Engineering, SJSU

Networking Engineering -- 3-day class:

Sensor Network Technology [\[more\]](#)
Date/Time: January 18-21, 8:30AM-4:30PM
Instructor: Professor Nader F. Mir, Electrical Engineering, SJSU

For full class outlines, prerequisites, fees, and lecturer biographies, see the Course Flyer:

www.e-grid.net/docs/sjsu.pdf

Circulate within your department.

Short Courses and Seminars for January, February:

Reliability Engineering [\[more\]](#)

Date/Time: 8 Tuesday evenings, Jan 11 - March 1
Instructor: Jurek Zarzycki, CRE, CQE
Location: Santa Clara

Overview: Reliability is a key attribute of the successful and profitable product. Understanding reliability disciplines and metrics and applying them during design, validation, test, and production yields big rewards. **Key Topics:** Reliability Management - Probability and Statistics - Modeling and Prediction - Maintainability and Availability - Reliability Testing - Product Safety and Liability
[Full course description and registration details.](#)

Intelligent Control & Soft Computing -- Neural Networks, Fuzzy Logic, Genetic Algorithms [\[more\]](#)

- Dates: February 1-3, 2005
- Location: NASA Research Park, Moffett Field
- Instructors: **Lotfi Zadeh**, Ph.D., UC-Berkeley; **Kevin Passino**, Ph.D., Ohio State Univ; **Hamid Berenji**, Ph.D., IIS Corp.

Traditional (hard) computing methods do not provide sufficient capabilities to develop and implement intelligent systems. Soft Computing is a subfield of artificial intelligence that is tolerant of imprecision, uncertainty, and partial truth. Soft Computing and Computational Intelligence methods have provided important practical tools for constructing intelligent systems.

This course has been presented at several NASA locations including NASA Marshall and NASA Glen as recently as June 2004. At the completion of this course you will have a full understanding of the benefits of intelligent control, neural networks, fuzzy logic inference, and genetic algorithms. You will have learned significant details about their successful applications and you will have developed the necessary knowledge to design and apply these techniques to your particular applications.

Who Should Attend? Engineers, technical managers, project leaders, scientists, system analysts, and others interested in fuzzy logic, neural networks and intelligent systems.

Registration and more information: On the [class website](#)

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Technologists who are not members of IEEE are **encouraged to subscribe, at no cost, to this e-GRID Newsletter**, to find opportunities to "network" with the electrical engineering community and hear about Chapter events through our twice-monthly emails. This is a controlled list (ie, no spam) -- [get more information](#). You provide your own subscribe/unsubscribe services and can join and leave this IEEE DList when desired. To update the list, send an email message to:

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