VOLUME 41, NO. 4 DECEMBER 1997

DECEMBER CHAPTER MEETINGS

SECTION MEETING

Joint with

ENGINEERING IN MEDICINE AND BIOLOGY SOCIETY MEETING Tuesday, December 9, 1997

Time:

7:00 PM - Dinner

8:00 PM - Program

Place:

Tree Tops

New Braunfels, TX

Speaker: Dr. David Tong

Department of Medicine/

Cardiology

The UT Health Science Center

at San Antonio

Program: Election of Officers for 1997-

EINTHOVEN - Interpreting Electrical Signals from the

Heart

Dr. Tong will present EINTHOVEN, a computer-based system that interprets electrical signals from the heart. EINTHOVEN is a large system that has been developed by physicians and biomedical engineers over the last seven years. Dr. Tong has played a key role as principal investigator in the development of key portions of the system. He will discuss a new feature of EINTHO-VEN that allows automated analysis of intracardiac electrograms using a semiquantitative three-dimensional model of cardiac electrophysiology. This new feature can be used by physicians performing radiofrequency catheter ablation to treat heart arrhythmias. This research is funded by the National Institutes of Health and the Whitaker Foundation.

Biography: Dr. Tong holds bachelors. masters, and a PhD in biomedical engineering from Louisiana Tech University. From 1992 to 1996, he was a postdoctoral fellow and assistant professor of research in the Department of Medicine at the University of Oklahoma Health Sciences Center. Dr. Tong is currently an Assistant Professor in the Department of Medicine/Cardiology at the University of Texas Health Science Center in San Antonio. He is an author of over 40 papers and presentations in electrophysiology and pulmonary monitoring and has won numerous paper presentation awards.

Directions: From I-35, take the McQueeney exit (FM 725) and proceed west on Seguin St. toward downtown New Braunfels. Enter the circle downtown and take the first right onto San Antonio St. Tree Tops is on the right just before you reach the bridge.

Reservations: Please call one of the following by 5:00 PM on Friday, December 5:

Austin D. Kilpatrick (512) 834-6649 SA Brian Robey (210) 522-5115

IEEE CONSULTANTS' **NETWORK MEETING** Thursday, December 4, 1997

Time: 6:30 PM - Social/Networking

7:00 PM - Program

Red Lion Restaurant Place:

North of 290E East Side of I-35

Austin, TX

Speaker: Michael Tolbert

Choice Investments, Inc.

Program: Personal Financial Planning

A comprehensive personal financial plan addresses a variety of issues. Such a plan will include financial investments, such as stocks and bonds, as well as insurance, wills, and trusts

Chapter business will include the directory for 1998. Please prepare your data for the 1998 directory (ASCII format). Deadline is January 15, 1998. Also discussed will be the next WorkShop.

For further information, please call: Austin Bill Thorpe (512) 863-8621 SA Paul Alesu (210) 263-0033

CTEA CHAPTER MEETING Wednesday, December 10, 1997

Time: 6:00 PM - Social 7:00 PM - Meeting Place: Holiday Inn Northwest

> Southwest Corner of North Mopac and U.S. Hwy 183

North

Austin, TX

Speaker: Thomas C. Eskridge

Intelligent Reasoning Systems

Program: Populated Board Inspection

Technology

The need for automated populated board inspection stems from the desire to reduce the number of defective board escapes, and to improve the yield of the production line. There are two main goals of populated board inspection: to detect and classify defects and to provide process control information. Although at first glance the goals may appear to be independent, they are actually very closely related through the technology used to perform populated board inspection. The current generation of inspection technology typically trades classification accuracy - and hence the ability to provide meaningful process control information - with detection ability and ease of implementation. So while the current generation of technologies may be able to detect a wide range of anomalies on the populated board, detection is not the same as classification. Detection without robust classification will not lead to improved production yields because the information needed to improve the process will not be collected.

Biography: Thomas C. Eskridge is a cofounder of Intelligent Reasoning Systems, Incorporated and currently serves as Chief Scientist. Tom specializes in similarity-based reasoning in visual systems and methodologies for decision-making with incomplete or uncertain data. He is the co-inventor of the a continuous asynchronous temporal neural network (pat. 5,355,435). He is currently part of a team of engineers and scientists at IRSI who are developing a unique approach to visual quality assessment for several key steps in computer board manufacture. Tom has 30 publications in the areas of symbolic

reasoning and neural nets including 2 book chapters and 5 journal articles. Tom has a Masters degree in Computer Science from Southern Illinois University at Carbondale, and is PhD candidate in Computer Science, New Mexico State University.

Please contact Keith Vanderlee (512) 984-4542 for more information or if you would like to present at one of these meetings.

LASERS & ELECTRO-OPTICS SOCIETY MEETING Thursday, December 11, 1997

Time:

4:00 - 5:00 PM

Place:

J.J. Pickle Research Campus

Microelectronics and Engineering Research Bldg. 160

10100 Burnet Rd. Room 2.114 Austin, TX

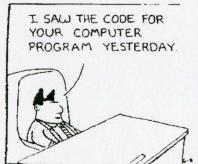
For further information, please contact:

Susan K. Swanson......(512) 471-7035 or susan.swanson@mail.utexas.edu

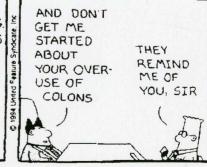
DECEMBER 1997 MEETINGS				
MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY
1	2	3	CONSULTANTS' NETWORK MTG (Austin)	
0	SECTION MTG joint with EMBS MTG (New Braunfels)	10 CTEA MTG (Austin)	LEOS MTG (Austin)	12
15	16	17	18	15
22	23	24	25	28
29	30	31		

The UT Austin Student Branch web page address is:

http://ieee.ece.utexas.edu. Also, one link from the main web
address is to the student branch publication the "Current"
(http://ieee.ece.utexas.edu/current). If further information is
needed, please contact Mark Edge via e-mail at:
section.rep@ieee.ece.utexas.edu.







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