

IEEE MINI CONDUCTOR



Dayton Section Mtg

Tue Mar 10, 6:30 – 8:30 PM

The Dayton Section meeting will be held at

WSU Kettering Center

Next to Engineer's Club on Monument St. Downtown

Free Parking

Please attend!! We need inputs for this year's activities

Just Show Up! All Welcome

Miami Valley Consultants Network



2nd Friday of each month
11:30am at the Engineer's Club.
Please RSVP 937-228-2148.

We will discuss topics that will help members market, sell & complete consulting assignments.

<http://members.aol.com/mvohconsultants/>

IEEE & Science Days

IEEE Dayton section will be sending three special delegates to two Science Day events (**Montgomery County Science Fair, March 7, '09 and Western District Science Day**) from which we select student projects that best advance the electrical engineering profession and honor them with a savings bond and dinner at our awards banquet on the 25th of April, 2009.

POC: Gary Lynch,

Chairman's Social at the Vanguard Concert

Sat. March 14

As a group, the IEEE Dayton Section will be attending the Vanguard Concert.

Please mail your checks to our IEEE Dayton Section, 1700 East Stroop Rd, P.O. Box 291885, Dayton OH 45429 by 23 February or email robert.ewing@ieee.org

Vanguard Concerts brings its 46th season of the world's top chamber music ensembles and soloists to The Dayton Art Institute's magnificent NCR Renaissance Auditorium. Robert Belinić, Guitar Acclaimed as "a genius, a poet, a super-sensitive musician," the young Croatian Robert Belinić has given recitals in the United States at Carnegie's Weill Recital Hall, Merkin Concert Hall, La Jolla Music Society, and many music festivals. He won the 2002 Ivo Vuljevic Award as "the best young Croatian artist." The concert is at 8:00 p.m. in The Dayton Art Institute's NCR Renaissance Auditorium.

Single Tickets: Adults \$20, Students \$15



Computer Society Mtg — Tuesday, March 17

Automatic Segmentation of Pulmonary Nodules in Computed Tomography Images: Image analysis, medical diagnostics

SPEAKER: Timothy R. Tuinstra, Cedarville University



DATE: Tues, March 17, 2009

TIME: 11:30 am-12:30 pm

PLACE: Ball Aerospace Dayton Conf. Rm
2875 Presidential Dr.



(SW corner of Colonel Glenn Hwy & Center Park Blvd)
Fairborn, OH 45324

RSVP: Dave Perez, david.perez.ctr@wpafb.af.mil or 937-522-6192.
Pizza and soft drinks provided for \$3/person - **RSVP required.**

Meeting open to all.

ABSTRACT & BIO ON PAGE 3

LONG-TERM CARE PLANNING IN A RECESSIONARY ENVIRONMENT *IEEE Webinar*



Thursday, March 19, 2009

2:00 PM EST (Duration: 1 hour)

<http://www.spectrum.ieee.org/webcasts>



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Systems, Man & Cybernetics Society and Engineering in Medicine & Biology Society (SMCS & EMBS)

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Tech Talk: Attack of the Wireless Worms

Recent research has shown that a new and disturbing form of computer infection is readily spread: the epidemic copying of malicious code among wireless routers without the participation of intervening computers. Such an epidemic could easily strike cities, where the ranges of wireless routers often overlap.

Computer Society Mtg Tuesday, March 17, 2009

Automatic Segmentation of Pulmonary Nodules in Computed Tomography Images: Image analysis, medical diagnostics

SPEAKER: Timothy R. Tuinstra, Cedarville University



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PLACE: Ball Aerospace Dayton Conference Room 2875 Presidential Dr. (SW corner of Colonel Glenn Hwy & Center Park Blvd) Fairborn, OH 45324

RSVP: Dave Perez, david.perez.ctr@wpafb.af.mil or 937-522-6192.

Pizza and soft drinks provided for \$3/person - RSVP required.

Meeting open to all.

ABSTRACT: Lung cancer continues to be the leading cause of cancer death in the United States. The automatic detection and characterization of this deadly form of cancer is an area of ongoing research. This work focuses primarily on the characterization of pulmonary nodules once they have been detected. This characterization includes the accurate segmentation of nodules within three dimensional (3D) computed tomography (CT) data. In this work, a novel approach to the segmentation of pulmonary nodules from CT data is presented in which we compute a set of candidate segmentations which are characterized by a set of measured features. We then apply a trained artificial neural network to attempt to estimate the quality of the candidate segmentations. The highest quality candidate segmentation is kept as the winner. We provide experimental results for the segmentation algorithm including a comparison of our segmentation algorithm to segmentations created by board certified radiologists.

BIO: Tim Tuinstra (BSEE Cedarville University, MSEE/Ph.D., University of Dayton) serves as Assistant Professor of Electrical Engineering at Cedarville University. Prior to coming to Cedarville, Dr. Tuinstra spent four years as a senior engineer at General Dynamics and has conducted graduate research at the Air Force Research Laboratory's Electro-Optical Sensors Lab. His areas of interest and experience include medical imaging, signal processing, and digital communications. He is a member of the IEEE Engineering in Biology and Medicine Society and the IEEE Signal Processing Society.

Prospects Bright for Web Professionals

While the economic downturn has brought layoffs and uncertainty to many technology sectors, prospects remain bright for Web professionals. In an environment where companies are relying increasingly on their websites to sell products and services, such professionals are reporting no scarcity of work. Aquent, a talent agency for design professionals, recently teamed up with the career site Monster to study the market. In their survey of 1,000 Web professionals and 162 employers and recruiters, they were surprised to learn that despite the economic downturn, demand for Web professionals remains strong. The field has become increasingly specialized. In the past, companies hired HTML coders and Web designers to help them carry out their online strategies. Today, companies need designers who understand Web 2.0 fundamentals, and are usability experts capable of designing wireframes and prototypes, and communicating with software engineers.



<http://www2.computer.org/portal/web/buildyourcareer/careerwatch/hotsectors>



**COMING
ATTRACTIONS**

IEEE Dayton Award's Banquet

Sat. April 25th, 2009

The 2009 IEEE Dayton Section Awards Banquet will be at the Charity Early Auditorium in Sinclair's Ponitz Center on April 25 (Saturday) Chapter Seminar Speakers/ science fair displays start at 5:00pm.



Dinner is at 7:00pm, followed by the keynote and awards program. The new format for the IEEE Awards Banquet will enable each IEEE Dayton Chapter to meet before the Banquet dinner, and to present upcoming activities to the Section.

 **VISIT WITH FRIENDS**  **CONGRATULATE AWARD WINNERS**  **NETWORK** 

Prefer to get the mailed version of the Mini? Contact Bob Cooper 298-2062 or Bobc9101@sbcglobal.net

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