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MARCH IAS Meeting

Title: “IEC 60034-18-41: a new draft technical specification for qualification and acceptance tests of inverter duty motor insulation”

Presenter: Dennis Bogh, PE
 Application Engineer, GE Industrial & Power Systems,
 Seattle, WA
 Time: Wednesday, March 21, 2007
 6:00pm dinner, Speaker presentation starts at 7:30pm
 Cost: \$20.00 for dinner. No charge for presentation only.

Place: Holiday Inn Hotel Portland, 1441 NE 2nd Avenue, Portland, OR

Abstract:

A new International Electro-technical Commission (IEC) Technical Specification (TS) is being developed to define the requirements for qualification of insulation systems to be used in machines supplied by voltage converters. Currently being prepared, it is much more inclusive than

NEMA MG-I part 31 (Definite-Purpose Inverter-Fed Polyphase Motors). Once approved, it will significantly influence the development of applicable North American specifications. Many manufacturers today are working to develop insulation systems that will meet the stringent requirements of the Technical Specification. This paper presents the highlights of the draft document and how it relates to the current methods of specifying machine insulation systems with non-sinusoidal power supplies. Changes to the way inverter-duty insulation systems are qualified as a result of this specification is discussed and evaluated.

Presenter: Dennis Bogh, PE is responsible for large motor applications for GE in the Western U.S. and Canada. He is a graduate of the University of Washington, 1975. He has spent his entire professional career with the GE Company, holding positions of various responsibilities. Dennis has maintained active involvement in the IEEE IAS throughout his career and has authored and presented/published a number of excellent technical papers over the past several years. He is presently Secretary Elect for the IEEE IAS Petroleum and Chemical Industry Committee.

IEEE CPMT Workshop

IEEE Component Packaging and Manufacturing Society (CPMT) and Circuits and Systems Society (CAS) Oregon chapter is sponsoring a full-day workshop on recent advances in microprocessor and communication platform design technology. The workshop is intended to bring together Northwest technical professionals to exchange ideas and raise awareness to the latest developments in component, packaging, and platform design technologies.

The workshop is scheduled for Thursday, May 24 in Beaverton.

IEEE RAS Meeting

Title: FPOAs Meet the Challenges of Image Processing for Machine Vision
 Ron Bell, Chief Technology Officer

Tuesday March 13th, 2007 7-9 PM
Oregon Graduate Institute Wilson Clark Center, Hillsboro, Oregon
Free and open to the public.

Please register at:
<http://www.cpd.ogi.edu/coursespecific.asp?pam=2206>

For further information please contact Nelson Bridwell at (503) 740-5102 or Bridwell@MirageRobotics.Com

MathStar

Today's system requirements compel designers to develop faster ICs in less time. As a result, designers are increasingly turning towards programmable logic devices rather than custom silicon or ASICs. While FPGAs have served this role, several factors have prevented them from addressing many high-performance applications.

- Limited clock rates - The fastest FPGAs have maximum clock rates in the range of 500 MHz, too slow to meet operating frequency and throughput requirements in high-performance applications
- Post-layout timing issues - After place and route is completed, the maximum frequency (Fmax) for designs may drop to under 200 MHz. Considerable design expertise and effort is required to raise Fmax above this level.
- Lengthy design iteration - The process of functional simulation, RTL synthesis and place and route extend the time required for design optimization.

These factors have led to a new category of very-high performance, programmable logic ICs such as the FPOA from MathStar, Inc. The FPOA™ (Field Programmable Object Array™) is an array of building blocks called “objects,” which are programmed at a higher abstraction level than with finer-grained FPGAs. MathStar’s Arrix FPOA provides an array of 400 objects operating at rates up to 1-GHz, along with on-board memory, external memory controllers and high-speed I/O. The FPOA’s synchronous architecture and deterministic timing ensure 1 GHz operation, with no reduction in maximum frequency due to timing problems. The result is higher throughput than what is available in other reprogrammable architectures.

MathStar’s FPOA architecture supports very high speed image processing such as two-dimensional filtering, Sobel edge detection, flat field error correction and JPEG 2000 encoding. When operating at 1-GHz, the FPOA can achieve superior performance levels:

Color space conversion	1 Giga pixel per second
2D convolution filter	1 Giga pixel per second

Sobel edge detection	500 Mega pixels per second
Flat field error correction	500 Mega pixels per second
JPEG2000 Encoding	150 Mega pixels per second

Because the FPOA is a reprogrammable device it is well suited to machine vision applications, where both flexibility and performance are critical.

Machine Vision Related Press Releases by MathStar:
MathStar in Machine Vision
http://www.mathstar.com/Pdfs/Mathstar_050806_Press_release_v1.1.pdf

EMBS Meeting

Date: Tuesday, March 13, 2007

Times: 6:00 pizza social
6:30-6:45 EMBS Chapter meeting, election of new officers
6:45: presentation

Location: PSU Smith Hall, Room 238

Title: "It's All About The Timing... Echo Cardiogram Enhancement Through ECG/EKG Triggering"

Prof. David Rivkin, PhD, PE
IEEE Senior Member and EMBS Distinguished Lecturer
Adjunct Professor, Drexel University College of Engineering
Chairman, IEEE SCV IMS and IEEE IMS TC-34

Working with NASA scientists, GE and Philips ultrasound engineers, GCPI developed the first SystemC based ECG/EKG monitoring system on a single FPGA. The module acts as a trigger for Echo Cardiogram and other medical imaging systems to improve image quality by reducing motion between image slices. An overview of the development program, technology used and future directions will be discussed. This presentation is for engineers, physicians and engineering managers, covering technical and business processes.

Prof. David A. Rivkin, PhD, PE is a professional scientist, engineer and organizational manager with over 20 years of high tech engineering experience and 15 years of engineering management experience leading some of the world's top firms. Prof. Rivkin teaches at Drexel University's College of Engineering on both engineering and management topics. David is a Distinguished Lecturer with the IEEE's Engineering in Medicine and Biology Society and a Senior Member of the IEEE. He has been a frequent guest speaker on engineering management and high-technology issues at IEEE Instrumentation and Measurement Society meetings, and chairs both the Silicon Valley Chapter of the IEEE Instrumentation and Measurement Society and the IEEE IMS Technical Committee 34 "Nanotechnology in Instrumentation and

Measurement". David is the IEEE liaison to the International Standards Organizations TC-229 "Nanotechnology Standards" and many other international professional society positions including being an Executive Member of "AdvaMed", the Advanced Medical Technology Association. Dr. Rivkin holds PhDs in Applied Mathematics and Engineering Management and other graduate studies in Biophysics, Biochemistry and Metrology. Dr. Rivkin has nearly 20 patents pending in the US and internationally.

New IEEE Senior Members

The IEEE Oregon Section announces our newly elected Senior Members, advanced by the Admissions and Advancements committee meeting of February 17, 2007. We congratulate each of them for taking this step.

Michael Barnes, Brian Bishop, Derick Skouby

We are also pleased to announce the self nominated candidates elected to Senior Member on January 20, 2007, but not known to us in time for the January BEEEP.

C. P. Auth, Jeff G. Hildreth, Kannan Krishna, William Mackie, Kevin Zhang

The Section has nominations submitted for the next Admissions and Arrangements committee meeting. We welcome other nominations, and the opportunity to show our support to self nominations. Remember, if the nomination is over the signature of our Section Nominator, a Life Fellow, which means the nomination only requires two qualified references. The Section also gets credit within the Senior Member Initiative for the nomination. Contact james.rooks@ieee.org regarding Senior Member nominations.

Senior Member Rodeo

The IEEE Oregon Section Senior Member Rodeo is scheduled for Tuesday, April 17, 2007.

Time: 6:00 PM – 8:00 PM

Location:

Oregon Graduate Institute, Wilson Clark Dining Room-

Map: <http://www.ogi.edu/map/>

Registration required, requests by April 9, 2007

Candidates: Active IEEE Members with 10 years credited Electrical Engineering Service, 5 years of which are of significant performance

Candidates register by sending a request email to

james.rooks@ieee.org

Nomination form will be sent by return email

Return the completed nomination form, with resume, well in advance of the April 17 Rodeo date. Come to the Rodeo and be interviewed by two Qualified Referees.

Local Congressmen and Senator roles in the 110th Congress

Smith to Lead Senate's Republican High Tech Task Force. January 29th, 2007 - WASHINGTON, DC - Today, Oregon's Gordon Smith (R-OR) was appointed by Minority Leader Mitch McConnell (R-KY) to be Chairman of the Senate Republican High Tech Task Force. The task force helps facilitate an exchange of views between the Senate and America's job creators in high tech industries.

"High tech companies are innovators driving the American economy," Smith said. "Public policy needs to be clearing the path for high tech industries to grow and expand. In the 21st Century economy American companies have to be competitive globally. The High Tech Task Force will focus on reforming the tax code and federal regulations to give these job creators an edge over competitors abroad."

Senator Smith's appointment creates new opportunities for Oregon's high tech companies to impact the technology debate in Congress.

Will Swope, Vice President of Corporate Affairs of Hillsboro, OR, based Intel, Oregon's largest private employer, applauded the senator's appointment, "Senator Smith has remained a strong and steady voice in support of expanded trade opportunities, which recognize the reality of the global economy," said Swope. "He has also been a leader in support of increased research and development funding, knowing the significant impact that technology development has for the U.S. economy."

Rick Wills, Chairman, President and CEO of Beaverton, OR based Tektronix, Inc., noted Smith would be a 'strong' and 'articulate voice' for Oregon's high tech companies. Wills said, "Technology companies face fierce global competition. [Senator Smith] understands the issues technology companies face and [Senator Smith] will work with the technology community to ensure that American businesses thrive in the global economy."

Senator Smith has served as a member of the High Tech Task Force since 2001. In this role, he has been a leading advocate for telecom reform, broadband deployment to rural areas, and ensuring that federal regulations and the tax code do not hinder technological growth. The High Tech Task Force is the leading advocate for the

technology sector on Capitol Hill and was created in 1999 to advise the Republican Caucus on technology issues.

House Science Subcommittee Chairs Announced

January 24th, 2007 - WASHINGTON, DC - The House Committee on Science and Technology, chaired by Bart Gordon (D-TN), has announced its membership and subcommittee chairs for the 110th Congress. The committee membership includes 24 Democrats and 20 Republicans.

The committee has added one subcommittee from the previous line-up in the 109th Congress - the Subcommittee on Investigations and Oversight - and altered the names of several subcommittees to better reflect their jurisdictions.

In addition to the new Investigations & Oversight Subcommittee, the other four subcommittees are Energy & Environment, Technology & Innovation, Space & Aeronautics and Research & Science Education.

Two greater Portland Congressmen were appointed as subcommittee chairmen as follows:

Subcommittee on Technology & Innovation: Chairman David Wu (D-OR)

The Subcommittee handles issues related to the technological competitiveness of the U.S. It has jurisdiction over surface transportation research at the Department of Transportation, R&D programs at the National Institute of Standards and Technology, R&D programs at the Department of Homeland Security, and the legal framework for competitiveness and technology policy. Recently, the Subcommittee has studied standards for voting machines, strengthening U.S. manufacturing, transportation research and border security R&D.

Subcommittee on Research & Science Education: Chairman Brian Baird (D-WA)

The Subcommittee handles issues related to education, basic research, and the health of the U.S. academic research enterprise. It oversees National Science Foundation programs and the Office of Science and Technology Policy. Recently, the Subcommittee has dealt with science and math education, computer security and government-wide R&D initiatives such as information technology and nanotechnology.

News From Around IEEE

1. IEEE-USA Beefs Up Public Awareness Programs To boost the public's understanding of the role played by engineers, IEEE-USA has more than doubled its public awareness budget this year.

Find out more at

<http://bmsmail3.ieee.org:80/u/5569/05229885>

2. New View Breathes Life Into Old Meeting

Sometimes it takes an organizer with new ideas and lots of enthusiasm to breathe life into a faltering program. That's what happened when IEEE Student Member Mohamed Adel Shahat, chair of the IEEE Student Branch at Shoubra Faculty of Engineering at Egypt's Benha University, took on the task of organizing the annual meeting of the country's student branches. Learn how he did it at <http://bmsmail3.ieee.org:80/u/5570/05229885>

3. Nick Patterson: Deciphering Life's Secret Code

After spending much of his career as a mathematician doing classified cryptographic work for both the British and U.S. governments, and then applying his mathematical insights to the stock market, IEEE Senior Member Nick Patterson is trying his hand at one of the great challenges: decoding the human genome. Read more about his work at <http://bmsmail3.ieee.org:80/u/5571/05229885>

4. Luiz de Queiroz Orsini: 4000 EE Disciples--and Counting

It's been 60 years since 84-year-old IEEE Fellow Luiz de Queiroz Orsini began teaching at the University of Sao Paulo, Brazil's foremost educational institution. In those six decades, Orsini has affected generations of Brazil's EEs, creating new courses and laboratories, preparing original teaching material in Portuguese, and introducing computers as a teaching tool. Learn more at <http://bmsmail3.ieee.org:80/u/5573/05229885>

5. Student, GOLD Groups Make Good Match

The IEEE Student Branch at the Massachusetts Institute of Technology and the IEEE Graduates of the Last Decade group in Boston shared the same goal last year: improving the relationship between the IEEE and its student members. That's why the two groups made a perfect match for a joint seminar on entrepreneurship. For more information, go to <http://bmsmail3.ieee.org:80/u/5574/05229885>

6. Giving Processors More to Process

A lot less information was stored back when words were man's only indexable form of information. Today, with pictures, video, and sound in the mix, keeping up with all the information-storage technologies is a challenge. That's the reason for holding the 32nd annual International Conference on Acoustics, Speech, and Signal Processing, tak-

ing place from 15 to 20 April in Honolulu. Learn more at <http://bmsmail3.ieee.org:80/u/5575/05229885>

7. Marketplace of Ideas: Virtual Versus Real Communities

A recent study found that 43 percent of Internet users who are members of online communities, such as MySpace, for example, feel "as strongly" about their virtual friends as they do about their real-life friends. Do you think virtual relationships can be as meaningful as real-life relationships, or is interaction in the real world key for relationships to work? Weigh in at [<mailto:institute@ieee.org>](mailto:institute@ieee.org)

8. IEEE Computer Society Seeks Nominations for Anniversary Award

The deadline for nominating someone for the Computer Society's 60th anniversary award is 15 March. The award will go to one or more individuals responsible for the single most important computer science and engineering contribution over the past century. For more information and to access nominating materials, visit <http://bmsmail3.ieee.org:80/u/5577/05229885>

9. Enter IEEE Spectrum's Do-It-Yourself Contest

Have you built a terrific electronics project at home? If so, IEEE Spectrum wants to hear from you. Spectrum and Make magazines are joining forces to call attention to the coolest and cleverest do-it-yourself projects. If you'd like to share your creation with more than a million people--the combined circulation of the two magazines--then let them know about it.

For more information, go to <http://bmsmail3.ieee.org:80/u/5578/05229885>

10. IEEE Job Site to Exhibit at CeBIT

The IEEE Job Site will have an exhibit booth at the 2007 World Trade Fair for Information and Communications Technology, better known as CeBIT, from 15 to 21 March in Hannover, Germany. Employers who visit the booth--in hall 006, stand E35--in the fair's Job & Career Market will be offered a free job posting. The IEEE Job Site is a major benefit of membership for those looking to change jobs or to see what benefits employers are offering to professionals with similar jobs. For more information, e-mail the IEEE Job Site at [<mailto:jobsitecandidate@ieee.org>](mailto:jobsitecandidate@ieee.org)

11. Embedded Systems Conference Offers Discount

Members who register by 6 March for the 2007 Embedded Systems Conference Silicon Valley can save more

than US \$300. The world's largest such conference takes place from 1 to 5 April in San Jose. Sign up and use code UX35 to save an additional 10 percent on top of the \$300 at <http://bmsmail3.ieee.org:80/u/5580/05229885>

12. IEEE Spectrum Online Highlights World's First Quantum Computer

IEEE Spectrum Online features a report on a Vancouver start-up that says it has demonstrated the world's first commercially viable quantum computer even though quantum computers are commonly considered a research affair that's as much as 20 years away from usefulness. D-Wave Systems unveiled its machine at the Computer History Museum in Mountain View, Calif. Read more at: <http://bmsmail3.ieee.org:80/u/5581/05229885>

Electrical Engineering for over 55 years

The April 18, 2007 meeting of the IEEE/IAS Oregon/SW Washington Chapter will be a presentation by John R. Holmquist, PE, IEEE Life Fellow, recently retired from Weyerhaeuser Company. Mr. Holmquist will present insights into his Electrical Engineering career, covering happenings since his 1951 graduation from Oregon State College. Such things as designing the electrical system for a Chlorine Plant, designing the electrical system for major Pulp/Paper mills, being responsible for Project Management, developing a co-generation system before the concept became popular, solving a newsprint loading system damage problem to performing the Arc Flash Studies so important to personal safety around plant electrical equipment. Check the IEEE web site for details and to reserve your place at this informative reflection on a life in the Electrical Engineering Profession.

IEEE Standards Online Subscriptions Now Available in IEEE XPLORE

The IEEE Standards Online subscription packages are now accessible through the IEEE Xplore digital library, which also delivers access to all IEEE periodicals and conference publications. Incorporating these subscription options into IEEE Xplore provides subscribers with advanced features that were not available in the previous platform. These include the ability to search all IEEE content at the same time, opt-in email alerts for notification of new content and multiple search options, including searches by standard status and industry grouping. The introduction of the IEEE Standards Online packages into IEEE Xplore now provides over 400 new customers with the ability to access article abstracts from the full IEEE Xplore digital library. Users can view training materials and documents on the new platform at <http://www.ieee.org/web/standards/materials.html>. For

more information on the IEEE Standards Online subscription packages, visit <http://www.ieee.org/digitalsubs>.

TRYENGINEERING.ORG adds 13 Countries to “Find a University” Search Tool

TryEngineering.org has added 13 new countries to its global search tool which enables users to search for accredited engineering and engineering technology programs online. Originally launched in June 2006 with search capabilities for the United States and Canada, the “Find a University” database now includes Australia, Brazil, France, Germany, India, Japan, Korea, Malaysia, Mexico, New Zealand, Pakistan, South Africa and the United Kingdom. The expanded search feature allows users to find accredited programs based on locale, tuition, and size of the student body of the academic institution. Links are also provided to the university, college and admissions department associated with each program.

The TryEngineering.org Web site will continue to add additional countries to the “Find a University” search tool in 2007, as well as produce German, French, Chinese, Japanese Russian and Spanish versions.

Tryengineering.org is a joint project of IEEE, IBM and the New York Hall of Science. For more information, visit <http://www.tryengineering.org>.

IEEE Spectrum seeks entries for Do-It-Yourself Electronics Projects Competition

IEEE Spectrum and Make magazines have teamed up to sponsor a contest that will recognize the most unique and clever do-it-yourself electronics projects. The winning entries will receive full coverage in the print and/or online editions of both IEEE Spectrum and Make (combined readership over one million), as well as airfare and accommodations to attend the next “Maker Faire,” Make magazine’s annual jamboree for do-it-yourselfers, 19 to 20 May 2007, at the San Mateo, Calif., Fairgrounds, where the winner will describe and demonstrate his or her project.

Interested applicants should include a brief description of the project, an estimate of how much it cost to create, a photo, parts list and schematic in their entries. Applications should be mailed to: Spectrum/Make DIY Contest, 3 Park Ave., 17th Floor, New York, NY 10016-5997, U.S.A. The entry deadline is 15 March 2007. For more information, visit <http://www.spectrum.ieee.org/feb07/4878>.

Call For Papers: 2007 IEEE Conference on The History of Electric Power

The IEEE History Committee and History Center are accepting papers for its next conference series, the 2007 IEEE Conference on the History of Electric Power which will be held from Friday 3 August through Sunday 5 August 2007 on the campus of the New Jersey Institute of Technology in Newark, New Jersey, USA. The conference is co-sponsored by IEEE and Rutgers, The State University of New Jersey.

Conference papers can address all aspects of electric power and its applications from the 19th century to the present. Individuals interested in submitting a paper for consideration should submit an abstract and one-page c.v., either electronically or in paper form, to Frederik Nebeker, IEEE History Center, Rutgers University, 39 Union Street, New Brunswick NJ 08901, USA; or to f.nebeker@ieee.org. The deadline for submissions is 15 April 2007. For more information, visit http://www.ieee.org/web/aboutus/history_center/conferences/che2007/index.html.

IEEE-USA Employment Navigator Online Portal Offers Free Access to Members

IEEE-USA has re-launched its online Employment Navigator, which now provides free access to all IEEE members. Employment Navigator, an online career development portal, collects millions of job leads from more than 100,000 Web sites and places them in a single searchable database. In addition to searching job postings, members for the first time can access basic company information, contacts from the LinkedIn online networking portal, and salary benchmarking tools from the search results. The service will expand to include job listings outside the U.S. later this year. To access this free member service, users can visit <http://www.ieeeusa.org/careers/employmentnavigator/and> enter his/her IEEE Member Web Account at the login prompt. For more information, contact Marnie James at m.c.james@ieee.org.

IEEE Partners with the Game Institute to Offer members Online Professional Training in Video Game Production

IEEE members interested in taking continuing education courses in video game production can sign up for exclusive online training programs offered by The Game Institute, a new member of the IEEE Education Partners Program. The Game Institute provides online professional training designed to advance students’ video game programming skills through creative, hands-on assignments and activities.

The courses focus on five major areas of study: programming languages, mathematics skills, 3D graphics

pipeline programming, real-time game engine architectures and artificial intelligence algorithms. IEEE members who enroll in any of these courses will receive a 10 percent discount. Later this year, The Game Institute plans to launch a number of art and design courses for those interested in 3Dgame art and animation. For more information on the Game Institute or other partners in the IEEE Education Partners Program, visit <http://www.ieee.org/partners>.

Compute Society Certification Program Offering Two Testing Windows

The IEEE Computer Society's Certified Software Development Professional (CSDP) program, a certification program designed for mid-level software engineers, will be holding two testing windows in 2007. The application deadline for the 2 April – 30 June window is 2 April, while the deadline for the 1 September – 30 November testing window is 1 September. For more information, visit <http://www.computer.org/certification>.

ACM SIGARCH Announcements: Calls for Papers

HOTCHIPS 19 Call for Papers
<http://www.hotchips.org>

Final Report Available: 2005 CRA Conference on Grand Research Challenges
http://www.cra.org/Activities/grand_challenges/architecture/home.html

SC07 Call for Papers: 20th International Conference for High-Performance Computing, Networking, Storage and Analysis
<http://sc07.supercomputing.org/>

WIOSCA 2007 Call for Papers: Workshop on the Interaction between Operating Systems and Computer Architecture
<http://www.ideal.ece.ufl.edu/wiosca>

COOL Chips X Call for Posters: IEEE Symposium on Low-Power and High-Speed Chips
<http://www.coolchips.org/>

ACACES 2007 Call for Participation: Third International Summer School on Advanced Computer Architecture and Compilation for Embedded Systems
<http://www.hipeac.net/summerschool>

WCAE 2007 Call for Papers: Workshop on Computer Architecture Education, held in conjunction with ISCA-34 <http://www4.ncsu.edu/~efg/wcae2007.html>

TRANSACT '07 Call for Papers: The Second ACM SIGPLAN Workshop on Transactional Computing
<http://www.cs.rochester.edu/meetings/TRANSACT07/>

IISWC 2007 Call for Benchmarks: The Annual 2007 IEEE International Symposium on Workload Characterization <http://www.iiswc.org/>

ACT '07 Call for Papers: 16th International Conference on Parallel Architectures and Compilation Techniques
<http://pactconf.org>

Call for Papers Special Issue: Circuits and Systems for Real-Time Security and Copyright Protection of Multimedia

International Journal of Computers and Electrical Engineering (Elsevier Ltd.)

http://www.elsevier.com/wps/find/journaldescription.cws_home/367/description

18th IEEE International Symposium on Personal, Indoor and Mobile Radio Communications
September, 3-7, 2007, Athens, Greece
<http://www.pimrc2007.org>

After a large number of requests, the TPC of PIMRC 2007 and the respective Chairs have decided to extend the paper submission deadline.

The new deadline is currently set to March 15, 2007. Up to that date authors are requested to use the electronic submission system (under Authors Area) to submit their papers.

Authors are invited to submit high-quality papers describing original and previously unpublished contributions in a wide range of topics in wireless communications.

For additional information regarding technical program, call for papers, as well as for travel related topics, please visit: <http://www.pimrc2007.org>

Computer Society Digital Library Updates

The IEEE Computer Society announces the following additions to the Digital Library.

This update is available online at http://www.computer.org/portal/pages/ieeecs/publications/CSDL_update.html

2007 IEEE Congress on Evolutionary Computation

(<http://www.cec2007.org>).

Sponsored by the IEEE Computational Intelligence Society, and co-sponsored by the Evolutionary Programming Society and the IET, the IEEE CEC 2007 will be held in Singapore, September 25-28, 2007.

The 2007 IEEE Congress on Evolutionary Computation (CEC) will feature a world-class conference that aims to bring together researchers and practitioners in the field of evolutionary computation from all around the globe.

Technical exchanges within the research community will encompass keynote speeches, over 35 special sessions, over 10 tutorials and workshops, panel discussions as well as poster presentations. On top of these, participants will be treated to a series of social functions, receptions and networking sessions, which will serve as a vital channel to establish new connections and foster everlasting friendship among fellow counterparts.

Workshop on Preparing Academics for a Business World

The Workshop will include three coordinated contributions as listed below.

There will be ample opportunity for the audience to interact during the presentation and to present examples of their own and difficulties that they face with both their host institutions and their industrial partners/clients for discussion.

Part 1:
Marketing Applied Computational Intelligence Arthur Kordon The Dow Chemical Company

Part 2:
Working with Industry: Running research and consultancy activities from an academic base Ian Parmee ACDDM Lab, Bristol UWE Chief Scientific Officer, Advanced Computational Technologies

Part 3:
A Practical Model for Evolutionary Computation Market Introduction Ali Zalzal CEO, Hikma Group Ltd

A mirror site located in China has been created at:
<http://nical.ustc.edu.cn/conferences/cec2007/>

General Chairs
Kay Chen TAN, National University of Singapore Jian Xin Xu, National University of Singapore

Special Session on Evolutionary Computation in Manufacturing Systems & Robotics

Motivation

Over the past decades, evolutionary computation plays an essential role in advancements of manufacturing systems and robotics. Funding from government agencies and industrial corporations has led to the development of new solutions in areas such as engineering design (e.g., process analysis, design automation, autonomous decision making, and reengineering), manufacturing (e.g., system design, planning and scheduling, reconfigurable systems, e-business, and system diagnosis) and medicine (e.g., disease diagnosis, generation of medical protocols, and discovery of medical knowledge).

On the other hand, researchers involved in robotics have achieved significant results by the inclusion of evolutionary concepts, algorithms and computational methods to the robotics systems. Special emphasis has been made in evolvable nature; evolvable software and hardware. Many humanoids came into the market and mostly commercial and attracted in home appliances as well.

Further, recent developments of Bio-Inspired Robotics Devices led tremendous impetus in the society. Significant improvements in human health devices, sports performance analysis, injury prevention and in surgery led innovative products for the society.

Therefore, the use of evolutionary computation in manufacturing systems and robotics is one of the key criteria behind development of many advanced and smart products in the society. It is our obligation as researchers to provide due recognition by introducing a special session in this congress.

Scope

The scope is primarily based on the advancements and improvements of above mentioned fields which are:

- Applying evolutionary algorithms in intelligent manufacturing systems Evolutionary computation in intelligent robotics
- Evolvable Bio-Inspired Robotics Devices (EBIRDS)
- Humanoid robots and complex adaptive systems
- Applications in industry, healthcare, and service organizations.
- Man-Machine interaction.

Submission:

Manuscripts should be prepared according to the standard format of regular papers specified in CEC2007 and be restricted to a maximum of 8 pages.

Paper submission is strictly only PDF format and online through the regular CEC2007 submission website. Special session papers will be treated in the same way as regular papers and included in the conference proceedings.

Important Dates:

Paper Submission	March 15, 2007
Decision Notification	May 15, 2007
Camera-ready	June 15, 2007
Conference	September 25-28,

Organizers:

S. G. Ponnambalam
School of Engineering
Monash University Malaysia
sgponnambalam@eng.monash.edu.my

S. M. N. Arosha Senanayake
School of Engineering
Monash University Malaysia
senanayake.namal@eng.monash.edu.my2007

OGI School of Science and Engineering Health Care Seminars

Mar 14 (Wednesday) [Computational Bioscience Series: Speech Technology--From Customized Care to Robotic Surgery](#)

Izhak Shafran (OHSU Dept. of Computer Science & Electrical Engineering

Time: 6:30 PM networking and refreshments; 7:00 PM presentation FREE

Location: OGI Wilson Clark Center (building 3 on the [campus map](#))

In this talk Ishak Shafran will describe how speech technology can provide innovative solutions to such diverse areas as customer care and robotic surgery.

These seminars are held at the OHSU West Campus (OGI School of Science & Engineering) in the Wilson Clark Center (building 3 on the [campus map](#)). The address is 20000 NW Walker Road, Beaverton, and driving directions are available on the campus map. We hope to see you there.

Advertiser: AUXILIUM COURSES AND EVENTS FOR ENGINEERS

Fundamentals of Successful Negotiation

March 15-16, 2007
Portland, Oregon

Project Estimating and Planning: A Practical Approach for Smaller Projects

April 5, 2007
Portland, Oregon

* NEW * Engineers' Boot Camp

April 23-25, 2007
Portland, Oregon

Managing Many Priorities

May 1, 2007
Portland, Oregon

Engineering Leadership Roundtable

May 9, 2007
11:45 a.m. to 1:15 p.m.
Portland, Oregon

All of our seminars are available privately at customer facilities. For a complete listing please visit <http://www.auxilium-inc.com/on-sitetraining.htm>

IEEE Oregon Section Contacts

Gary Hinkle	Section Chair
Jeffrey Drummond	Vice Chair
Kevin DeAngelis	Secretary
Allen Taylor	BEEEP Editor
John Vinson	Pre-College Activities Chair
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