

April 2011

Editorial Board**A.P. Kakarountas**
*Editor***Associate Editors****N. Sklavos**
*Book***P. Chatzimisios**
*Chapter News***D. Bakalis**
*Calendar & Conferences***A. Voyiatzis**
*Awards & Contests***E. Sapountzi**
*Student Branches***Contents:**

Prof. Konofaos lecture	2
Lecture of Prof. J.P. Xanthakis @ NTUA	2
Book review	3
Consumer Electronics Chapter	3
Student Awards	4
Student's corner	5
Conferences	6

The official Greece IEEE Section's Newsletter

Invitation to the Annual Event

The annual event of Greece IEEE Section (www.ieee.gr) will take place on April 14, 2011. On that day, the Administrative Board will have a meeting at 14:00 and then the official annual plenary talk will start at 15:00. It will be open to everybody who may want to attend either members of IEEE or not.

This year's talk will be given by Dr. Nikolaos Mavridis, Assistant Professor and Lab Director (Interactive Robots

and Media Lab—IRML), University of United Arab Emirates (UAEU).

The title is "Glimpses to the Robotics Future: From Interactive Robots, Social Networks and Telepresence to the Man-Machine Hybrid Cloud".

The plenary talk will be hosted to the Microelectronics Innovation Center, Corallia Clusters Initiative (www.corallia.org), Sorou 12,

Marousi. So, apart from the annual event, it will be an excellent opportunity to visit the Microelectronics Innovation Center and hear from Greek scientists and entrepreneurs success stories of Greek innovation.

Your attendance will also give us the opportunity to meet and discuss about IEEE, exchange opinions and ideas and activate more members

Editorial

After a long period of re-organizing the form and the content of the Greece IEEE Newsletter, it is finally time to present to you the results of our efforts.

It was observed that the newsletter delivery that is offered from IEEE was altering the format of the submitted text, resulting in a poor quality text, not so friendly for reading. After several ideas and suggestions, the

editorial team of the newsletter decided to move to a new format for the circulation of the newsletter. A portable format that would not make discriminations between the Operating Systems that the Greece IEEE Section members have installed in their computers had to be chosen, and also benefit from new web-based services (such as Google Docs) that allow uploading and viewing of online documents. As a re-

sult a PDF file will be delivered to you, attached to the e-mail you receive. We will try to keep the file size reasonable.

Although there were few events that took place in between January and April, you will discover that we have for one more time plenty of interesting articles to accompany you during reading. Wishes for enjoyable reading and creative

IEEE EDS Greece Chapter + SB of Aegean University = Prof. Konofaos

The EDS Greece Chapter in collaboration with the Student Branch of the University of the Aegean organized a meeting for the students of the Department of Information and Communications Systems Engineering of the University of the Aegean in Karlovassi, Samos, Greece. The meeting included a main lecture and student presentations on Nanotechnology and

Nanoelectronics and took place at the Provatari Building, room K.Sofoulis, in Karlovassi, on Friday 21st January 2011.

The main lecture was given by Dr. Nikos Konofaos, Greece EDS Chapter vice-chair, while, students presented 12 short talks on topics such as MEMS & NEMS, Nano-transistors, Nano-

memories, New generation Nano-computing systems etc.

The meeting attracted more than 90 undergraduates of the University of the Aegean. After the meeting, the students had the chance to discuss on the IEEE and its activities, while they all asked for more lectures to be given by IEEE members in the future.

"...while they all asked for more lectures to be given by IEEE members in the future."

Lecture of Prof. J.P. Xanthakis @ NTUA

A scheduled educational Lecture was given by Professor J.P. Xanthakis, professor of Microelectronics at the School of Electrical & Computer Engineering of the National Technical University of Athens (NTUA), Greece, on Friday, 5th of November 2010 at the New Buildings of the NTUA campus.

The lecture was organized by the IEEE EDS Greece Chapter, as part of a series of both

educational and research lectures that are scheduled for presentation from autumn 2010 to summer 2011. The topic was "Introduction to Nanotechnology" and was aimed for undergraduate students

who wished to learn on new developments at the area of Nanoelectronics and their applications. The lecture, chaired by Dr. Nikos Konofaos, Greece EDS Chapter vice-chair, attracted more



than 80 undergraduates of the NTUA, who actively participated in a long and helpful discussion that followed. After the lecture, the students had the chance to discuss on the IEEE and its activities.

Stay tuned ... Greece IEEE Section is out there

Do not forget to get informed for all the Greece IEEE Section's through the news channels we are providing.

Visit the Greece IEEE Section's website at www.ieee.gr

Consult the Google Calendar we have created and embedded it in the website!

Join our LinkedIn Group

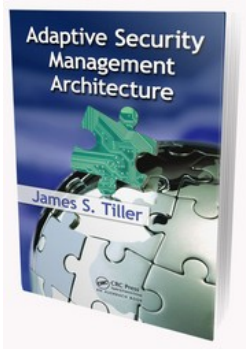
If you are a Student why not get informed by our Face-

book group (it is very active)

Get the newsletter through your e-mail

Read the newsletter in the website's repository

Adaptive Security Management Architecture



Author: James S. Tiller

CRC-Press, A Taylor and Francis Group, 2011, ISBN: 978-0-8493-7052-6

Book Review

by Nicolas Sklavos

e-mail: nsklavos@ieee.org

In Adaptive Security Management Architecture, James Tiller deals with security from unknown point of views, even though for the more expertise security guys. The readers of the book, have a great chance to learn professionals' structures and program designs, in order to meet the high quality re-

quirements of a business organization.

The book is organized in eleven chapters and it is proven rather practical than theoretical. A great number of examples are referred, as well as concepts for making security management a successful process of the system design. The author, guide us, to an end security product, through the procedure of management, and present us in detail, how to accomplish it.

For many security issues, that traditionally there was no idea of how to achieve business main intents, the book gives certain answers of how to develop them, at least at a satisfactory level.

The book starts with a detailed introduction on security and business. It goes on presenting how to achieve adaptability and defines the security services of a system. The main part of the book is

dedicated to security management of different aims: services, risk and compliance. The final part is dedicated to governance, and how to achieve organizational and capability maturity management.

An obvious missing point for the readers, looking the contents of the book, is that there is no reference to extensive bibliographic notes. Although, this is not a disadvantage, due to the perfect job of the author, of covering all the aspects of the topic, at a great and detailed manner.

The foreword is introduced by Dustin Owens.

This book can be recommended for researchers and university students in information security systems. Also, engineers, security system designers, and developers will find in it interesting and useful content.

IEEE Greece Section Consumer Electronics Society Chapter

A new chapter has been established in the Greece IEEE Section. The Consumer Electronics Society Chapter was formed by 12 members of the Greece IEEE Section and the Consumer Electronics Society on October 2010.

From 19 February 2011, the IEEE Member and Geo-

graphic Activities Board has registered officially the new Chapter as an IEEE Chapter in Greece. Dr. Athanasios Kakarountas will serve as the Chapter Chair until a new one is elected. Soon, more information will be available for the meetings, the benefits, and the plans of the new chapter.

Official communication with the officers of the Consumer Electronics Society was initially established during CES, 3-6 January 2011, Las Vegas, USA. If you are interested to contact the Chapter, you may do so at kakarountas@ieee.org .

*Dr. Nicolas
Sklavos offers
our Newsletter's
first book review*

*A review from an
expert is like a
gift to us seekers*

*April is
students'
awards and
contests time!*

Students' awards time - Don't miss Deadline Day (15 April)!

The IEEE Student Branches have the opportunity to gain worldwide recognition for their achievements. Student teams can also compete to build a high-performance cluster in less than 46 hours and win bragging rights as the world's best.

IEEE Regional Exemplary Student Branch Award (Deadline: April 15)

The IEEE Regional Exemplary Student Branch Award provides public recognition of exemplary IEEE Student Branch operations in each region.

To qualify for the award, the branch must conform to IEEE Bylaws, have an active program and support IEEE goals. There is no limitation on the number of branches that will get the award!

More info:

<http://goo.gl/IjHqe>

IEEE Outstanding Branch Counselor and Advisor Award (Deadline: April 15)

Do you have a counselor who assists you to the maximum extent and helps you in making your branch to what it is? Why not award him/her for the IEEE Outstanding Branch Counselor and Advisor Award Recognition Programme?

Each year, the MGA and TA Boards sponsor a cash award to each of approximately ten outstanding Counselors and Advisors throughout the world.

More info:

<http://goo.gl/xb0d2>

IEEE Larry K. Wilson Regional Student Activities Award (Deadline: April 15)

Every year, one student receives the prestigious Larry K Wilson Student Activities Award for extraordinary accomplishments associated with student activities.

As a winner, you will receive a customized award plaque and three years IEEE membership!

More info:

<http://goo.gl/27YKv>

IEEE Student Branch Website Contest (Deadline: April 15)

Has your branch website recently been updated or do you just have an awesome website which you would like to see rewarded? Don't hesitate to submit your branch website to the IEEE Student Branch Website Contest. The first two winners of the Region 8 contest will also get the chance to be part of

the global contest!

More info:

<http://goo.gl/hpj3a>

Student Cluster Competition (Deadline: April 15)

Submissions are now open for the fifth annual Student Cluster Competition (SCC) for at the SC11 conference held in Seattle, WA on 12-18 November, 2011. SC11 is sponsored by the IEEE Computer Society and the ACM.

Student teams are encouraged to submit proposals to build high performance computing clusters on the convention center floor in real time and push their applications to the limit. The competition pits six teams of undergraduates against one another to see who can build and configure a cluster in 46 hours that accomplishes the most work using "real world" computational codes in the least amount of time. In addition to time constraints, students must work within the parameters of the designated system and power configurations, and use open-source software to solve the applications provided to them.

More info:

<http://goo.gl/nGx0E>

and

<http://goo.gl/BbxiL>

University of Central Greece IEEE Student Branch

"HOW TO" LECTURES

On Thursday 24th of February, the IEEE UCG SB in association with the Career Services Office of University of Central Greece held a seminar entitled "How to succeed in an interview". Kalliopi Sotiraki, Director of Studies and Career at the University, shared with the audience specific, easy-to-master skills that virtually guarantee professional results at the interviewees. The event was the second session under the "How to...?" cycle of seminars and took place at the Department of Computer Science and Biomedical Informatics. Approximately 45 Students of the Department attended the seminar.

Annual Event – Workshop

The IEEE UCG SB invites you to the third IEEE Student Branch workshop, organized

in association with the University of Central Greece, entitled "Embedded systems and computer Applications in Biomedicine". The event will take place on Thursday 7th of April, at the Department of Computer Science and Biomedical Informatics at the city of Lamia. The structure of the seminar consists of lectures and tutorials at laboratories and classrooms. Speakers and topics of the meeting are listed below:

T. A. Antonakopoulos
Information Storage Technologies and Embedded systems

T. Pliakas
Applications using Cloud Computing

C. Doukas
Embedded Systems for Open Computer Hardware & Software: The Arduino platform and biomedical applications

P. Bamidis
Recent developments in Health Informatics to support elderly care

N. Voros
Embedded Systems Design using the platform MOR-PHEUS

A.P. Kakarountas
Hardware-software co-design for Embedded Systems

N. Petrellis
Read Capacity biosensors with Microcontrollers - Software Storage at Flash memory microcontrollers

C. Karpouzis
Design and major purpose game development

C. Xanthis
Designing embedded systems using Matlab and Simulink

New IEEE Student Branches

Last year was extremely productive for Greece IEEE Section. New Chapters are established, member growth keeps a positive sign, activities are multiplying and ... students are leading this movement!

Two new IEEE Student Branches have been established, the University of Western Macedonia IEEE

Student Branch and the Alexander TEI of Thessaloniki IEEE Student Branch. The two SBs have proven to be really active and have motivated numerous students to get more active with IEEE.

A great thank you to the SBs Counselors and Boards for their voluntary hard work. Dr. C. Karpouzis, the Greece

IEEE Section's Student Activities, will be available, as always, for communication and assistance to your mission.

More SBs soon in our neighborhood (sure bet)! If you want to get more actively involved then contact Greece IEEE Section.

A facebook group has been created in order to ease communication between Student Branches and make discussions, news sharing and proposals between the members of the IEEE fun and direct. The name of the group is "IEEE GREEK STUDENT BRANCHES" and everyone can join and post.

"Greece has become a Conference heaven this year"

Newsletter Editor

17th IEEE International On-Line Testing Symposium

Call for Papers - IOLTS

Athens, Greece, July 13-15, 2011

<http://tima.imag.fr/conferences/iolts/iolts11/index.htm>

Issues related to on-line testing are increasingly important in modern electronic systems. In particular, the huge complexity of electronic systems has led to growth in reliability needs in several application domains as well as pressure for low cost products. There is a corresponding increasing demand for cost-effective on-line testing techniques. These needs have increased dramatically with the introduction of very deep submicron and nanometer technologies which adversely impact noise margins, process, voltage and temperature variations, aging and wearout and make integrating on-line testing and fault tolerance mandatory in many modern ICs. The International On-Line Testing Symposium (IOLTS) is an established forum for presenting novel ideas and experimental data on these areas. The symposium also emphasizes on-line testing in the continuous operation of large applications such as wired, cellular and satellite telecommunication, as well as in secure chips. The Sym-

posium is sponsored by the IEEE Computer Society Test Technology Technical Council and organized by University of Athens and TIMA Laboratory.

The topics of interest include (but are not limited to) the following ones:

- Reliability issues in nanometer technologies □ On-line testing of analog and mixed signal circuits
- Radiation effects □ On-line testing in automotive, railway, avionics, industry
- Design for reliability □ On-line testing in the continuous operation of large systems
- Design for variability □ Field diagnosis, maintainability and reconfiguration
- On-line power monitoring and control □ Fault-tolerant and fail-safe systems
- On-line current, temperature, etc, monitoring □ Dependability evaluation
- Secure circuit design □ Dependable systems design
- Fault-based attacks and counter measures □ On-line and off-line built-in self-test
- Self-checking circuits and coding theory □ Synthesis of on-line testable circuits

Submissions: The IOLTS Pro-

gram Committee invites authors to submit papers in the above or related technical areas. Accepted papers will be included in formal Proceedings to be published by the IEEE. Papers must be submitted electronically following the instructions provided at the symposium web site.

Please observe the following key dates:

- Submission deadline: March 23, 2011
- Notification of acceptance: April 29, 2011
- Camera-ready papers due: May 16, 2011

2nd International ICST Conference on Wireless Mobile Communication and Healthcare - MobiHealth 2011

Double Tree
by Hilton Resort
Helona – Kos Island, Greece
5-7 October 2011

www.mobihealth.name

The objectives of this conference are to advance medical diagnosis, treatment, and patient care through application of wireless communications, mobile computing and sensing technologies. It aims to provide an international forum to bring together researchers and experts from academia, healthcare organizations, research institutions, and industrial enterprises working in the field of wireless communication and health care to share ideas and discuss cutting-edge research, present experience with recent developments in healthcare delivery, and to provide practical guidance to policy makers and the setting of applicable standards.

Original unpublished contributions are solicited that can improve the knowledge, understanding and practice in the interdisciplinary design of efficient protocols and technologies to help implement and provide advanced mobile health care applications. The topics of interest include but not restricted to:

- * Emergency and disaster applications
- * Specialty and site specific applications

- * Wearable, outdoor and home based applications
 - * Sensing of vital signs and signatures
 - * Intra-body propagation and communication
 - * Mobile devices for patient monitoring
 - * Measurement and monitoring technologies
 - * Decision support algorithms for sensor analysis
 - * Transmission of patient data
 - * Ad hoc and sensor systems and networks
 - * Real-time transmission of multiple medical data
 - * Healthcare telemetry and telemedicine
 - * Secure and high quality networks
 - * Ad hoc wireless networks for enhanced monitoring
 - * Remote diagnosis and patient management
 - * Accuracy and reliability of diagnoses
 - * Home and rural environments
 - * Novel mobile encryption technologies
 - * Coding and communication standards
 - * Identity and privacy enhancing technologies
 - * Mobile data management and processing
 - * Wireless access in ubiquitous systems
 - * Wearable computing and communication
 - * Wireless and wearable devices for pervasive healthcare
 - * Mobile and wireless technologies for healthcare delivery
 - * Sensor networks for pervasive healthcare
 - * Patient monitoring in diverse environments (hospitals, nursing homes, assisted living)
 - * Medical Device Control Via Wireless Technology
 - * Radio-Frequency Wireless Technology in Medical Devices
 - * Safe, Effective, Secure and Reliable Use of Wireless Technology in healthcare
- Papers should be submitted by 15 May 2011. The preferred length for initial submission is 4 pages, however the length of final paper should not exceed 8 pages. Extra pages will incur additional charges. The papers must be submitted in PDF format. All submissions will be peer reviewed, and acceptances will be provided by 15 July 2011.
- The Proceedings of MobiHealth 2011 will be published in LNICST, appear in SpringerLink and will be referenced in ICST's digital library, the European Union Digital Library (EUDL). Extended versions of selected papers of the conference will be invited for publication in journal special issues (SCI Indexed).
- MobiHealth 2011 will be held in parallel with the: 10th International Workshop on Biomedical Engineering

*Send in due time
the Call for Papers
of your Symposia,
Conferences,
Workshops to be
included in the
Newsletter*

16th International Conference on Intelligent System Applications to Power Systems

Call for Papers - ISAP

Hersonissos, Crete, Greece,
September 25-28, 2011

<http://www.isap-power.org>

The "Intelligent Systems Application to Power Systems" is specifically dedicated to discuss innovative solutions in the area of operation, control, planning and maintenance of large interconnected but also isolated or weakly interconnected power systems, as well as their particular components. ISAP 2011 focuses on power systems operating in competitive environment, renewable energy and distributed generation, but also other subjects of interest in modern power systems. Employment of novel software technologies are in the special scope of the conference, but also intelligent approaches achieved with conventional programming are sought for. Proposed subjects should be beyond the phase of declarations of interest or presentations of ideas; papers reporting practical realization and application will have priority. The conference will be held in Crete, an island characterized by high wind power penetration (approx. 20% annually), where a pilot control center based on intelligent techniques was installed. The Conference will

provide opportunities for tutorials and technical visits including:

- The Island Energy Management System
- One of the wind parks
- The Insulator Testing Center of Public Power Corporation

The event is organized by the National Technical University of Athens with the technical co-sponsorship of the IEEE Power and Energy Society.

The Conference welcomes papers on intelligent systems application to Electric Power and Energy Systems (Generation, Transmission, Distribution, Markets, Operations, and Planning) with preference to :

Modern Grid Operation and Control

- Smart grids
- Microgrids and small island systems
- Self-healing grids
- Wide area system monitoring and control
- Fault diagnostics
- Protection

Electric Power and Energy System Analysis, Uncertainty and Risk Assessment

- Power system security,

reliability and adequacy

- Power system economics and pricing
- Load and price forecasting and estimation
- Grid integration of renewables including solar and wind
- Vehicle to grid integration
- Complex interactive cyber-physical systems based on Intelligent System Techniques
- Hybrid intelligent systems
- Game theory

The authors are invited to submit an electronic file of the full paper in IEEE PES standard double column format not exceeding 6 pages until March 20, 2011, to the conference website.

Following ISAP Conference tradition, a number of papers will be selected for publication in the International Journal of "Engineering Intelligent Systems".

Important Dates

- March 20, 2011 Submission of full paper
- April 30, 2011 Author notification of acceptance
- August 6, 2011 Deadline for final manuscripts and early registration

Call for Participation - SAMOS XI

International Conference on Embedded Computer Systems: Architectures, Modeling, and Simulation (SAMOS XI)

Samos, Greece, July 18-21, 2011

<http://samos.et.tudelft.nl/>

SAMOS is a premier and well-established conference on embedded systems organized annually. The conference brings together researchers from academia and industry on the quiet and inspiring northern mountain-side of the Mediterranean island of Samos. It provides an environment where collaboration rather than competition is fostered.

SAMOS XI is technically co-sponsored by the IEEE and the conference proceedings will be published in the IEEE Explore. Papers will be presented in two conference tracks: the 'Applications, Sys-

tems, Architectures, and Processors Track' and the 'Modeling, Design, and Design Space Exploration Track'.

This year SAMOS includes also two additional events: a special session on 3D Chips and a panel in the context of the multi-core era.

**** Samos Special session on 3D Chips: Challenges and Opportunities ****

Session Chair: Tong Zhang, Rensselaer Polytechnic Institute, NY, US

Encouraged by the recent significant progress on 3D integration technologies and also arguably forced by the coming end of historical transistor scaling, semiconductor industry is now quickly migrating from the whether 3D debate phase to the intensive how/when 3D R&D phase.

Aiming to showcase recent progress on a variety of 3D technology and design fronts and provide an inspiring forum for inter-disciplinary discussions and even possible collaborations, this special session will include submissions on related topics in this broad area including but not limited to integration technology, testing, thermal, EDA, circuits and systems design, and successful prototyping.

**** Samos Panel ****

The agenda of each day of the conference will conclude with a panel coordinated by Yale Patt, University of Texas at Austin, and Trevor Mudge, University of Michigan. The panel will focus on identifying the critical problems and opportunities provided by the emerging multi-core era of the microprocessor.

*Send in due time
the Call for Papers
of your Symposia,
Conferences,
Workshops to be
included in the
Newsletter*



www.ieee.gr

www.theieee.gr

Contact us @
newsletter@theieee.gr

Advertisement space. Advertise your company here and support financially Greece IEEE Section

Comments



This month I was pleasantly surprised by the March 2011 issue of region8news, the official newsletter of IEEE Region 8.

Almost every page included an article about Greece IEEE Section. Comparing to the past issues, the change is outstanding. This is a result mainly of the growth of the volunteers basis. There was no magic filter of success nor a coincidental case.

The last years, there is a continuous effort of the Greek members of IEEE to get more

actively involved in IEEE and its Geographic Units. With a parallel growth of volunteerism in Greece in the IT sector (EEL/LAK, HELUGs etc.) the environment was appropriate for seeding a vision of a strong Section.

The last four years (that I am actively involved in the Section's activities) there is a linear increase in membership growth. However the volunteers' population grows faster and faster. Considering that Greece IEEE Section is one of the big Sec-

tions in Region 8, it is now time to claim the position that we deserve in the official boards and committees.

Come to the Annual event and let's discuss in depth the potentials of Greece IEEE Section. IEEE membership is a privilege and we should get advantage of this.

I will be happy to meet you there.

Athanasios Kakarountas
Newsletter's Editor