

# BOLETÍN DE RECONOCIMIENTO DE PATRONES Y MINERÍA DE DATOS

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Asociación Cubana de Reconocimiento de Patrones



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## Editorial “Recuento CIARP’ 2009”

CONTENIDO:	
Editorial	1
ACRP. Su Historia. <i>Reseña de la IAPR</i>	2
Nacionales	
En vías de Ascenso	
<i>Conocimientos a tu disposición</i>	4
<i>Académicas UCIENCIA 2010</i>	5
Internacionales	
Del Comité Rector del CIARP	7
Fellows de la IAPR <i>Cronología de los Fellows IAPR</i>	8
Noticias	10
<i>Call for Nominations</i>	11
<i>Programación de Conferencias IAPR</i>	
Noticias ICPR 2010	12

### JUNTA DIRECTIVA DE LA ACRP

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El CIARP’2009 se desarrolló en el Hotel Mision Carlton de la hermosa ciudad de Guadalajara, patrocinado oficialmente por el CINVESTAV filial Guadalajara, la IAPR y los Doctores Eduardo Bayro-Corrochano y Jan-Olof Eklundth. El congreso contó además con el apoyo de la ACRP quien mantuvo la página Web y apoyó en el manejo del sistema EasyChair, empleado ya de forma tradicional por los CIARPs. Aquí, una mención especial merecen los Ing. Ricardo González Gazapo, Diana Porro Muñoz y Rainer Larín Fonseca, todos del CENATAV. Este reconocimiento también fue hecho por uno de los organizadores del congreso, el Dr. Eduardo Bayro. En este evento fueron aceptados 13 trabajos de Cuba, de ellos 8 del CENATAV, 3 de la UNICA y 2 de CERPAMID, UO. Estos trabajos contaron también con la co-autoría de especialistas de España, México, Austria y Holanda.

El domingo 15 en la mañana sesionaron: un workshop “Computational Advances of Intelligent Processing of Remote Satellite Imagery” (CAST’2009) y dos de los tutoriales: “Texture Analysis Methods and Applications”, impartido por la Dra. Maria Petrou, Directora del “Informatics and Telematics Institute, Centre for Research and



Technology Hellas”, CERTH, Grecia; y “An Overview of Research in the Computer Vision Area”, impartido por el Dr.

Peter Sturm, del INRIA, Grenoble, Francia.

Toda la actividad del congreso se realizó en la propia sede del mismo, lo que fue un acierto del organizador, sólo que el tiempo que se le destinó a los almuerzos resultó ser muy poco para las posibilidades del hotel lo que acarreo que muchas de las sesiones iniciaran sus actividades después de lo señalado en el programa y con un auditorio disminuido.

En la tarde del domingo se ofrecieron otros tres tutoriales: “Applications of Geometric Algebra in Robot Vision, Graphics and Medical Image” impartido por el Dr. Eduardo Bayro-Corrochano del CINVESTAV, Guadalajara, México; “We are Building a Topological Pyramid” impartido por el Prof. Walter G. Kropatsch de la Vienna University of Technology, Viena; y “Visual SLAM for Applications in Robotics and Measurement using Feature Description Matching” impartido por el Dr. Walterio Mayol-Cuevas de la University of Bristol, UK.

... continúa pág 6

¿ QUIERE SER  
MIEMBRO DE LA ACRP ?  
...VEA EN LA PÁG 4

**ACRP. SU HISTORIA****RESEÑA DE LA IAPR**

**EN EL AÑO 2000 LA IAPR ACEPTA LA INCLUSIÓN DE LA ASOCIACIÓN CUBANA DE RECONOCIMIENTO DE PATRONES COMO MIEMBRO, SIENDO ASÍ CUBA EL PAÍS NÚMERO 37 DE LA IAPR Y EL PRIMER PAÍS LATINOAMERICANO EN FORMAR PARTE DE DICHA ASOCIACIÓN. PERO... ¿QUÉ CONOCES DE LA IAPR? ... CONTINUACIÓN**

Tomado de <http://www.iapr.org>

**HISTORY OF THE  
INTERNATIONAL ASSOCIATION FOR PATTERN RECOGNITION  
FROM ITS FOUNDING IN 1973 TO 2008**

**PART I****4. ACTIVITIES PRIOR TO THE FIRST IJCPR IN WASHINGTON, DC**

In March-April 1972, K.S. Fu sent out letters inviting the 32 nominated persons to serve as member of the Committee for the First IJCPR, and several professional societies to co-sponsor the conference. A Progress Report from K.S. Fu, in the autumn of 1972, to the members of the Conference Committee for the International Joint Conference on Pattern Recognition, stated that the First IJCPR would be held at the Mayflower Hotel, Washington, D.C., during 30 October - 1 November 1973.

An announcement and call for papers for the First IJCPR, drafted by A. Rosenfeld, was enclosed with the Progress Report. An attached list showed that, out of the 32 nominated committee members, 4 had not replied to the invitation to become a member while all of the other 28 had agreed. Subsequently, one of the four also replied favorably. The Committee thus consisted of 29 members.

Also included in K.S. Fu's progress report was a list of the sponsoring societies:

IEEE (Computer Society; Systems, Man and Cybernetics Society; Control Systems Society and Information Theory Group)  
IFIP Optical Society of America, Pattern Recognition Society  
The Society of Photo-Optical Instrumentation Engineers  
Association for Computing Machinery

Finally, the Progress Report stated that a request for financial support had been submitted to the National Science Foundation. This support was later obtained.

A second announcement for the First IJCPR was issued in the course of 1973, with the logos of all the societies mentioned above as well as the names of the 29 members of the Conference Committee.

**5. THE FIRST INTERNATIONAL JOINT CONFERENCE ON PATTERN RECOGNITION**

The First IJCPR conference was held in Washington, D.C., 30 October - 1 November 1973, as scheduled. There were 3 parallel sessions with 89 sched-

uled papers: 65% from the U.S.A., 15% from Japan, 15% from Western Europe and 5% from other parts of the world. The conference included two workshops, one panel and a banquet. The attendance consisted of 312 individuals from 14 countries: 77.5% from the U.S.A., 4.5% from Japan, 15% from Western Europe, and 3% from other parts of the world.

The organizing meeting was held at the Mayflower Hotel, Washington, D.C., 31 October 1973. Present were: Fu, Becker, Chow, Cover, Freeman, Guzman, Kanal, Kazmierczak, Lainiotis, Ledley, Nadler, Nagumo, Orhaug, Patrick, Rotolo, Rutovitz, Sakai, Simon, Vamos, Verhagen, and Watanabe. The chairman was K.S. Fu and the minutes were recorded by R. Ledley.

Several motions were passed by the Committee:

- (1) *The Second IJCPR would be held in Copenhagen, Denmark during 13-15 August 1974. The Chairman would be C.J.D.M. Verhagen of the Netherlands, P.W. Becker of Denmark would be the Local Arrangements Chairman, and the Program Chairman was to be chosen by these two persons.*
- (2) *M.S. Watanabe of the U.S.A was required to organize and act as Chairman of a subcommittee that would invite suggestions and present recommendations for the site of the 1976 Joint Conference.*
- (3) *H. Freeman of the U.S.A was directed to explore the possibility of affiliation of the Committee with the International Federation of Information Processing Societies (IFIP).*
- (4) *The First International Joint Conference Committee reconstituted itself as the "Continuing International Joint Committee on Pattern Recognition" with the same members and the following officers: Chairman K.S. Fu, Vice Chairmen C.K. Chow and H. Freeman, Secretary R.S. Ledley, Treasurer L.S. Rotolo.*

A few comments, related to these motions are:

- The choice of Copenhagen, and the period of 13-15 August was made because the IFIP Congress 1974 was taking place in Stockholm during 5-10 August and it was expected that many participants would use this opportunity to attend both conferences. The place and date of the second IJCPR were discussed before the

**ACRP. SU HISTORIA**...CONTINUACIÓN **RESEÑA...**

Committee meeting by K.S. Fu and P.W. Becker. At the meeting, P.W. Becker was able to give some advance information about the possibilities in Copenhagen and about the budget of the Second IJCPR.

- The Second Conference had to take place in 1974. The short interval between the first and the second conference was to be considered exceptional and was to make sure that subsequent conferences could be held biennially in *even-numbered* years, thereby assuring that these conferences would be out of phase with the Artificial Intelligence Conferences, which were held biennially in *odd-numbered* years.

- The name of the Committee underwent numerous changes in the course of the years. Instead of the long name "Continuing International Joint Committee on Pattern Recognition," the name "Standing Conference Committee" was put in use soon after this meeting. Although the long-term intent was that the conference be international in scope, the initiative was a U.S.A.-one. Thus after the first meeting of the Committee for the First International Conference On Pattern Recognition, K.S. Fu signed his correspondence as "Chairman U.S. Committee for the First Intl. Joint Conference on Pattern Recognition." The first Standing Conference Committee was still restricted to U.S. officers.

**6. ACTIVITIES LEADING UP TO THE SECOND IJCPR IN COPENHAGEN**

A first announcement of the Second IJCPR was issued at the end of the First IJCPR in Washington, D.C. It was stated that papers on industrial applications, feature extraction, image processing and scene analysis would be particularly welcome. A special session on urban environmental problems was also announced. In December 1973 a second announcement and a call for papers was issued.

L.S. Rotolo assisted the organizers of the Second IJCPR in an efficient way by transferring the knowhow gained at the First IJCPR, distributing author kits all over the world, and asking the sponsoring Societies of the First IJCPR to continue their sponsorship, etc. All sponsoring societies of the First IJCPR maintained their sponsorship; the Dansk Ingeniørforening and Ingenir-Sammenslutningen joined them. An attempt to have the Classification Society as a sponsor, however, was not successful.

From the very beginning of the organization of the Second IJCPR much attention was given to contacts with scientists from U.S.S.R. in order to have them present papers in Copenhagen. At the First IJCPR a few papers from the U.S.S.R. were submitted and accepted, but in fact none of the authors could attend.

V.A. Kovalevsky from Kiev was a member of the Standing Conference Committee and accepted to be a member of the scientific committee. He was very active in announcing the Second IJCPR in the U.S.S.R. and in encouraging authors to submit papers. He received 7 papers and accepted 4 of them, which were published in the proceedings. The authors of the other three papers had scant hope to be able to participate in the Conference. Their papers were not reviewed. Unfortunately, the authors of the 4 accepted papers could not come to Copenhagen because their travel budget for 1974 had already been exhausted before the first announcement for the Second IJCPR arrived in the U.S.S.R. It also became clear that a conference organized by an organization in which the U.S.S.R. were a member would greatly facilitate participation by Russian scientists. This was also one of the reasons for seeking an affiliation with IFIP, which is such an organization.

Instead of Program Chairmen - as mentioned in a motion in the Washington, D.C. meeting - a Scientific Program Committee of 7 persons from different areas in the world was appointed. Each member was entitled to accept papers submitted to him, according to some standard rules. In cases of doubt, the decision was to be deferred to C. Verhagen. E. Backer from the Netherlands was appointed Secretary of the Conference, and he took care of a great deal of the organizational details.

In order to support the printing of the Proceedings - one of the main expenses in organizing a conference - the IEEE Computer Society's agreement to buy 700 copies on a pro rata basis was instrumental. By having 1100 copies printed rather than the 400 that were deemed necessary for the Conference participants, the price per copy was substantially lowered.

...CONTINÚA EN  
EL PRÓXIMO  
BOLETÍN...

**Siempre hay que hacer algo más**

*La humanidad de la cual formamos parte ha progresado gracias a aquellos, que siempre hicieron algo más en beneficio de todos. ¡¡¡Sé tú uno de ellos !!!*



**NACIONALES****EN VÍAS DE ASCENSO****CONOCIMIENTOS A SU DISPOSICIÓN****TÍTULOS QUE EL DEPARTAMENTO DE INFORMACIÓN CIENTÍFICO TÉCNICA DE CENATAV PONE A SU DISPOSICIÓN**

PARA MÁS INFORMACIÓN CONTACTE: [jmedina@cenatav.co.cu](mailto:jmedina@cenatav.co.cu); [mjaimerena@cenatav.co.cu](mailto:mjaimerena@cenatav.co.cu)

- Advanced pattern recognition technologies with applications to biometrics / by David Zhang [et al.]. - New York : Medical Information science reference, 2009. - 385 p.
- Adaptive and Multilevel Metaheuristics / ed. Carlos Cotta, Marc Sevaux, Kenneth Sörensen. - Berlin : Springer, 2008. - 259 p.
- Advanced Data Mining Techniques / David L. Olson, Dursun Denle. - Berlin : Springer, 2008. - 182 p.
- Advanced tomographic methods in materials research and engineering / Edited by John Banhart. - New York : Oxford University Press, 2008. - 489 p.
- Advances in Biometrics : Sensors, Algorithms and Systems / ed. Nalini K. Ratha, Venu Govindaraju. - London : Springer-Verlag, 2008. - 513 p.
- Advances in Digital Speech Transmission / Edited by Rainer Martin, Ulrich Heute, Christiane Antweiler. - England : John Wiley & Sons, 2008. - 572 p.
- Advances in Intelligent Information Processing : Tools and Applications / Editors B. Chanda, C.A. Murthy. - New Jersey : World Scientific, 2008. - 314 p.
- Affective Computing, Emotion Expression, Synthesis and Recognition / Edited by Jimmy Or. - Vienna : I-TECH Education and Publishing, 2008. - 452 p.
- Applied Spatial Data Analysis with R / Roger S. Bivand, Edzer J. Pebesma, Virgilio Gómez-Rubio. - New York : Springer, 2008. - 378 p.
- Automatic Speech Recognition on Mobile Devices and Over Communication Networks / Zheng-Hua Tan and Børge Lindberg. - London : Springer-Verlag, 2008. - 404 p.

...CONTINÚA EN  
EL PRÓXIMO  
BOLETÍN...

**¿QUIERES SER MIEMBRO  
DE LA ACRP?**

CORRESPONDENCIA CON NUESTROS LECTORES.

¿Cómo hacerse miembro de la ACRP?

Acceda a <http://acrp.cenatav.co.cu> y llene su solicitud.

Uno de los requisitos para su aceptación es que Ud. sea miembro de la Sociedad Cubana de Matemática y Computación (SCMC).  
Si tiene dificultades con lograrlo, comuníquese con nosotros.

E\_mail: [acrp@cenatav.co.cu](mailto:acrp@cenatav.co.cu)

Junta Directiva ACRP

**NACIONALES**... CONTINUACIÓN **EN VÍAS DE****ACADÉMICAS I****V CONFERENCIA CIENTÍFICA UCIENCIA 2010  
VI TALLER DE PROCESAMIENTO DIGITAL DE  
IMÁGENES Y SEÑALES APLICADAS****UNIVERSIDAD DE LAS CIENCIAS INFORMÁTICAS, CIUDAD DE LA HABANA, CUBA  
4, 5 Y 6 DE FEBRERO DE 2010**

El VI Taller de Procesamiento Digital de Imágenes y Señales Aplicadas, sesionará como parte de la Conferencia UCIENCIA 2010, el cual desarrollará la Mesa Redonda *“Situación de Cuba en la aplicación de los Sistemas de Transportación Inteligente”*. Nos agradecería mucho enriquecer el Programa con alguna Conferencia Magistral, impartida por algún miembro de la ACRP, el CENATAV, u otro factor, de reconocido prestigio en el tema.

Contacte al Coordinador en [rlcordero@uci.cu](mailto:rlcordero@uci.cu) antes del 15 de enero de 2010 .

Envío de ponencias: [hglez@uci.cu](mailto:hglez@uci.cu), antes del 15 de enero de 2010.

**TALLER DE CIENCIAS INFORMÁTICAS APLICADAS A LA GESTIÓN EMPRESARIAL  
CONFERENCIA CIENTÍFICA UCIENCIA 2010  
PGDAY CUBANO 2010****UNIVERSIDAD DE LAS CIENCIAS INFORMÁTICAS 4 al 6 Febrero 2010****TEMÁTICAS:**

1. Tecnologías de bases de datos y aplicaciones a la gestión empresarial.
2. Almacenes de datos y soluciones de ayuda a la toma de decisiones.
3. Gestión de proyectos informáticos y modelos de desarrollo de software

**PGDAY CUBANO 2010 :**

En el marco de este taller y como parte de las actividades del programa del evento se desarrollará el 2do PGDay Cubano (Día de PostgreSQL Cuba). Un espacio para la integración en el desarrollo del gestor de bases de datos PostgreSQL.

Los trabajos y conferencias del taller relacionados con tecnologías de bases de datos promoverán el desarrollo del gestor postgresQL y constituyen parte del PGDay Cubano 2010. Como parte del programa del evento se efectuará sesión plenaria con todos los miembros de la Comunidad Cubana de PostgreSQL que puedan participar.

**FECHAS IMPORTANTES APROBACIÓN DE LOS TRABAJOS:**

Fecha de entrega de trabajos: 1 diciembre 2009. Notificación de aceptación: 11 enero de 2010.

Centro de Tecnologías de Almacenamiento y Análisis de Datos (CENTALAD)

Universidad de las Ciencias Informáticas

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## ... CONTINUACIÓN EDITORIAL...

Este primer día de tutoriales y workshop concluyó con un coctel de bienvenida "Ice Break Party" que sirvió para que algunos se enteraran que colindante al hotel había una discoteca familiar a la que se podía ir a bailar... el resto podrán imaginárselo.

El primer día de congreso se inició con la conferencia interesante de María Petrou "An Imaging Architecture Base don Derivative Estimation Sensors" a la que siguió la primera sesión de trabajos. Después del almuerzo, empezaron sesiones paralelas de exposiciones orales, en las que el número de trabajos ausentes se incrementó un poco más. Para concluir ese primer día los participantes fueron invitados a que se costearan un paseo nocturno por Zapopan, un hermoso lugar pre-hispánico de los muchos con que cuenta este sorprendente país, rico en historia y bellezas arqueológicas entre muchas otras cosas que enaltecen la patria de Juárez.

El segundo día de sesiones del congreso se inició con la interesante conferencia "Challenges and Opportunities for Extracting Cardiovascular Risk Biomarker from Imaging Data" impartida por el Dr. Iannis Kakadiaris, Director del "Computational Biomedicine Lab. of University of Houston". En esa sesión de la mañana se presentaron todos los trabajos planificados y resultó de mucho interés por los trabajos presentados de hecho en ésta se presentó el trabajo "Pigmented skin lesions classification using dermatoscopic images" de los uruguayos Germán Capdehourat, Andrés Corez, Anabella Bazzano, y Pablo Musé, quienes a la postre obtuvieron

el **IAPR-CIARP 2009 Award to the Best Paper.**



Peter Sturm inició la sesión de la tarde de ese segundo día de congreso con la conferencia "3D and appearance modeling from images" la que dio paso a una no muy bien organizada sesión de presentaciones orales de los posters que a continuación se mostrarían durante el resto de la tarde exclusivamente. 41 exposiciones de medio minuto cada una fueron escuchadas de los ponentes que se amontonaron en el estrado para exponer su comunicación y dar paso a la sesión de discusión de los posters. En la noche los participantes fueron invitados a costearse otro paseo nocturno, esta vez por la población de Tlaquepaque, famosa por sus artesanías.



El último día del congreso comenzó con la presentación de la conferencia de Walter Kropatsch titulada "When pyramids learned walking" y continuó la sesión con la presentación de los trabajos planificados. En la tarde dos sesiones paralelas cerraron el congreso en las cuales el número de trabajos ausentes se hizo notar. Desafortunadamente, el organizador del congreso decidió suspender la reunión final programada y trasladarla para la cena de despedida donde además se anunciaría el premio y la sede de los próximos CIARPs.

Finalmente, la cena de despedida en el Palacio Municipal de Gobierno comenzó con un interesante paseo guiado por el Centro Histórico de la ciudad que resultó ser uno de los

aciertos del congreso por la profesionalidad de la guía que acompañó a los del grupo de habla hispana.



La cena concluyó con la presentación del Premio y la información acerca de cómo había transcurrido en números el CIARP 2009 y la exposición de lo que será el CIARP 2010 en la ciudad de Sao Paulo. Desafortunadamente, para la delegación cubana y el CIARP, el organizador del congreso extravió el trofeo que la ACRP ofrece anualmente a este premio y ni tan siquiera lo mencionó en el acto, ni a los ganadores.

Este "olvido" fue rectificado por nosotros y el trofeo, que se hizo de nuevo en México, les fue enviado por correo y sin costos de aduana a los ganadores quien en acto solemne de la naciente asociación uruguayo, lo entregará a nombre del pueblo cubano.

A pesar que el congreso no estuvo organizado en la forma que se había acordado, y que las arbitrariedades predominaron, el nivel del congreso en cuanto a su contenido académico se mantuvo. Aunque hay que reconocer que las evaluaciones que algunos de los participantes hicieron no fueron positivas sobre todo en cuanto a la organización del mismo.

La asistencia fue de alrededor de 100 especialistas de diversos países. Se sigue notando la aceptación e importancia y prestigio de los CIARPs en la comunidad del Reconocimiento de Patrones.

José Ruiz Shulcloper

## INTERNACIONALES *DEL COMITÉ RECTOR DEL CIARP*

Se realizaron dos sesiones de la reunión del Comité Rector pues el espacio designado para la misma era demasiado poco, una hora para almorzar y reunirnos. Eso motivó la ausencia de todos los representantes en actividades del congreso. A la reunión asistieron los representantes de España, México, Chile, Brasil y Cuba como miembros oficiales y las de Uruguay y Argentina como miembros no oficiales. La delegación de Portugal no asistió al congreso y la de Perú, miembro no oficial aún, no participó por razones económicas.

Los temas abordados fueron: Introducción a los CIARP; Realización del CIARP 2009; Special issue del CIARP 2008 y 2009; Realización del CIARP 2010; Sede del 2011 y perspectivas para los años próximos.

Fue reconocido el CENATAV por su trabajo en torno al CIARP y en particular los compañeros Ricardo González Gazapo, Rainer Larin Fonsecas y Diana Porro Muñoz por el trabajo realizado en la página Web del CIARP y el manejo del EasyChair.

Se acordaron un conjunto de reglas que deben apoyar el desarrollo del CIARP manteniendo al menos la calidad alcanzada. Esto desafortunadamente no ocurrió en esta edición del CIARP en el que se cometieron una considerable cantidad de violaciones que afectaron sin duda alguna la calidad del mismo. Esta evaluación es compartida por algunos de los especialistas de la dirección de la IAPR que estuvieron presentes.

Entre los acuerdos adoptados figuran: la ratificación de la realización del CIARP 2010 en Sao Paulo, la asignación a Chile del CIARP 2011, previa ratificación en Sao Paulo y la promesa de que las asociaciones de Perú, Uruguay y Argentina, quienes están en trámites para su incorporación oficial a la IAPR, presenten sus candidaturas para el CIARP 2012.

Posterior a esta reunión se sostuvo un encuentro con participantes de Colombia, con el propósito de iniciar la organización en ese país y se obtuvo un compromiso verbal inicial de los mismos de promoverla. Solicitaron que se les enviara información y que los apoyáramos en ese proceso por lo que la promesa puede convertirse en una realidad en los próximos meses. Con estas gestiones la familia de países latinoamericanos con asociaciones nacionales y miembros de la IAPR crece considerablemente. Estos son resultados positivos para el futuro desarrollo de la disciplina en nuestra región y sin dudas méritos para nuestro país como uno de los promotores de este movimiento.



**INTERNACIONALES FELLOWS DE LA IAPR****CRONOLOGÍA DE LOS FELLOWS IAPR****2000 - BARCELONA****Professor Bir Bhanu, USA**

For contributions to pattern recognition and computer vision

**Professor Josef Bigun, Sweden**

For contributions to image understanding and for service to IAPR

**Professor Alberto Del Bimbo, Italy**

For contributions to image database management and for service to IAPR

**Professor Dov Dori, Israel**

For contributions to document analysis recognition

**Professor Marco Ferretti, Italy**

For contributions to parallel architectures for image processing and for service to IAPR

**Dr. Hiromichi Fujisawa, Japan**

For contributions to document analysis and for service to IAPR

**Professor Edwin Hancock, UK**

For contributions to structural and statistical pattern recognition, and to computer vision

**Dr. Jonathan J Hull, USA**

For contributions to document image analysis and for service to IAPR

**Professor Seiji Inokuchi, Japan**

For contributions to 3D computer vision and service to IAPR

**Professor Jin H Kim, Korea**

For contributions to handwritten oriental scripts recognition

**Professor Yasuaki Nakano, Japan**

For contributions to recognition of handwritten characters, document analysis and for service to IAPR

**Dr. Hirobumi Nishida, Japan**

For contributions to structural pattern recognition and for service to IAPR

**Professor Shinji Ozawa, Japan**

For contributions to motion analysis and for service to IAPR

**Professor Maria Petrou, UK**

For contributions to image processing and for service to IAPR

**Dr. Pavel Pudil, Czech Republic**

For contributions to statistical pattern recognition and for service to IAPR

**Dr. Gabriella Sanniti di Baja, Italy**

For exceptional service to IAPR and for contributions to image analysis

**Professor Linda G Shapiro, USA**

For contributions to computer vision and structural pattern recognition

**Professor Arnold W M Smeulders, The Netherlands**

For contributions to image analysis and content-based image database retrieval

**Professor Steven L Tanimoto, USA**

For contributions to image processing

**Dr. Torfinn Taxt, Norway**

For contributions to multispectral image analysis

**Professor Hong Yan, Hong Kong**

For contributions to document image analysis

**Professor Ian T Young, The Netherlands**

For contributions to image analysis and pattern recognition

**2002 - QUEBEC CITY****Dr. Prabir Bhattacharya, USA**

For contributions to image understanding and processing.

**Professor Hans Burkhardt, Germany**

For contributions to the theory and application of invariants to pattern recognition and for service to IAPR.

**Professor Terrence M. Caelli, Canada**

For contributions to pattern recognition, image processing and machine learning.

**Professor Larry S. Davis, USA**

For contributions to computer vision and image understanding.

**Dr. Robert P.W. Duin, The Netherlands**

For contributions to statistical pattern recognition and for service to IAPR.

**Professor Charles R. Dyer, USA**

For contributions to computer vision and image processing.

**Professor Jan-Olof Eklundh, Sweden**

For contributions to computer vision and for service to IAPR.

**Dr. Ramesh C. Jain, USA**

For contributions to machine vision research.

**Professor Ales Leonardis, Slovenia**

For contributions to computer vision and for service to IAPR.

**Dr. Gerard G. Medioni, USA**



**INTERNACIONALES****... CONTINUACIÓN FELLOWS**

For contributions to pattern recognition and computer vision.

**Professor Heinrich Niemann**, Germany

For contributions to pattern recognition with applications to speech processing and image understanding, and for service to IAPR.

**Professor Sankar K. Pal**, India

For contributions to pattern recognition and image processing using soft computing.

**Professor Jussi P.S. Parkkinen**, Finland

For contributions to color and multispectral image processing, and for service to IAPR.

**Professor Franc Solina**, Slovenia

For contributions to interpretation of range images and for service to IAPR.

**Dr. Johji Tajima**, Japan

For contributions to color image processing and 3D vision.

**Professor Gianni L. Vernazza**, Italy

For contributions to image processing and pattern recognition.

**Professor Max A. Viergever**, The Netherlands

For contributions to biomedical applications of computer vision and pattern recognition, and for service to IAPR.

**Professor Lei Xu**, Hong Kong

For contributions to studies on Randomized Hough Transform and combination of multiple classifiers.

**2004 - CAMBRIDGE**

**Kim L. Boyer**, USA

For contributions to computer vision and for service to IAPR.

**Professor Dr Andreas Dengel**, Germany

For contributions to document understanding and for service to IAPR.

**Michael C. Fairhurst**, UK

For contributions to pattern recognition.

**Venu Govindaraju**, USA

For contributions to advances in handwriting recognition.

**Igor B. Gourevich**, Russian Federation

For contributions to mathematical theory of image analysis and recognition, and for service to IAPR.

**Michal Haindl**, Czech Republic

For contributions to the theory and practice of model-based pattern recognition and for service to IAPR.

**Vaclav Hlavac**, Czech Republic

For contributions to pattern analysis and image processing.

**Tin Kam Ho**, USA

For contributions to multiple classifier systems, statistical pattern recognition, document image analysis and recognition, and for service to IAPR.

**Horace, H.S. Ip**, Hong Kong

For contributions to theory and application of deformable model for image segmentation and pattern recognition, and for service to IAPR.

**Yuichi Ohta**, Japan

For contributions to computer vision and vision-based approach to image media, and for service to IAPR.

**Fabio Roli**, Italy

For contributions to pattern recognition and its applications and multiple classifier systems.

**Hiroshi Sako**, Japan

For contributions to the development and application of machine vision technology for factory and office automation.

**A. Lawrence Spitz**, New Zealand

For contributions to document recognition and for service to IAPR.

**Yuan Y. Tang**, Hong Kong

For contributions to wavelet analysis, pattern recognition and document analysis.

**Christopher J. Taylor**, UK

For contributions to the theory and practice of computer vision and medical image analysis, and for service to IAPR.

**Mario Vento**, Italy

For contributions to graph based learning and matching techniques, and for service to IAPR.

**Svetha Venkatesh**, Australia

For contributions to the formulation and extraction of semantics in multimedia data.

**Juan Jose Villanueva**, Spain

For contributions to research and the transfer of innovation and technology in computer vision.

...CONTINÚA EN  
EL PRÓXIMO  
BOLETÍN...

**INTERNACIONALES****NOTICIAS****WORLD COMP' 10**

The 2010 World Congress in Computer Science, Computer Engineering, and Applied Computing  
July 12-15, 2010, Las Vegas, USA <http://www.world-academy-of-science.org>

Prospective authors are invited to submit their papers by uploading them to the evaluation web site at:  
<http://worldcomp.cviog.uga.edu/>

Submissions must be uploaded by March 1, 2010 and they must be in either MS doc (but not docx) or pdf formats (about 5 to 7 pages - single space, font size of 10 to 12). All reasonable typesetting formats are acceptable (later, the authors of accepted papers will be asked to follow a particular typesetting format to prepare their final papers.)

The length of the Camera-Ready papers (if accepted) will be limited to 7 (IEEE style) pages. Papers must not have been previously published or currently submitted for publication elsewhere. The first page of the draft paper should include: title of the paper, name, affiliation, postal address, and email address for each author. The first page should also identify the name of the Contact Author and a maximum of 5 topical keywords that would best represent the content of the paper. Finally, the name of the conference that the paper is being submitted to must be stated on the first page

**IMPORTANT DATES:**

Jan. 16, 2010: Proposals for organizing sessions/workshops

March 1, 2010: Submission of papers (about 5 to 7 pages)

March 25, 2010: Notification of acceptance

April 22, 2010: Final papers + Copyright + Registration

July 12-15, 2010: The 2010 World Congress in Computer Science, Computer Engineering, and Applied Computing

**INTERNATIONAL COMPUTER VISION SUMMER SCHOOL**

**APPLICATION DEADLINE:** 21 March 2010 <http://svg.dmi.unict.it/icvss2010/application.htm>

The fourth edition of the International Computer Vision Summer School aims to provide an objective, clear and in-depth summary of the state-of-the-art research in the area of Computer Vision. The courses will be delivered by world renowned experts in the field, from both academia and industry, and will cover both theoretical and practical aspects of real Computer Vision problems.

The school is especially aimed to provide a stimulating space for young researchers and Ph.D. students.

The participants will benefit from direct interaction and discussions with world leaders in Computer Vision. Participants will also have the possibility to present the results of their research, and to interact with their scientific peers, in a friendly and constructive environment.

**MORE INFORMATION:** WEB: <http://www.dmi.unict.it/icvss> Email: [icvss@dm.unict.it](mailto:icvss@dm.unict.it)

**THIRD WORKSHOP**

In coordination with Second Session on Data Mining as a Tool for Environmental Scientists (DM-TES'2010)  
within the 5th Biennial Meeting of the International Environmental Modelling and Software Society (iEMSs 2010)  
July 5-8, 2010. Ottawa, Canada (<http://www.iemss.org/iemss2010>)

**IMPORTANT DATES:**

DM-TES-SESSION		DM-TES-WORKSHOP	
Abstracts submission:	31/12/ 2009	Abstracts submission	31/12/2009
Notification of acceptance:	10 /01/2010	On-line publication of invited position papers	15 /03/ 2010
Session Full-paper submission:	15 /01/2010	Notification of acceptance	30 /03/2010
Notification of provisional paper acceptance	19 /03/2010	Final revised camera-ready abstracts or full papers	30 /04/ 2010
Final revised camera-ready abstracts or full papers	30/04/2010	On-line discussion and work through the wiki	March-July
Early conference registration	5/05/2010	Early conference registration	15/05/2010
Session at iEMSs08	5-8/07/ 2010	Workshop	5-8/07/ 2010

## INTERNACIONALES NOTICIAS

### CALL FOR NOMINATIONS: KING-SUN FU PRIZE

Nominations deadline:  
10 January 2010  
Nomination and endorsement forms can be  
downloaded from the  
[KS Fu Prize](#) page of the IAPR web site.

### CALL FOR NOMINATIONS: J.K. AGGARWAL PRIZE

Nominations deadline:  
10 February 2010  
Nomination and endorsement forms can be  
downloaded from the  
[J.K. Aggarwal Prize](#) page of the IAPR web site.

Tomado de NEWSLETTER Volume 31, Number 4 October 2009

## PROGRAMACIÓN DE CONFERENCIAS IAPR

En el sitio Web de la IAPR encontrará más información actualizada acerca de las conferencias IAPR

MCS 2010	9th International Workshop on Multiple Classifier Systems Deadline: Nov 19, 2009	Cairo, Egypt	7-9 Apr 10
ANNPR 2010	4th International Workshop on Artificial Neural Networks in Pattern Recognition Deadline: Nov 1, 2009	Cairo, Egypt	11-13 Apr 10
DAS 2010	Ninth IAPR International Workshop on Document Analysis Systems Deadline: Dec 1, 2009	Cambridge, MA, USA	9-11 Jun 10
CIP 2010	2nd International Workshop on Cognitive Information Processing Deadline: Jan 10, 2010	Elba Island (Tuscany), Italy	14-16 Jun 10
ICISP 2010	International Conference on Image and Signal Processing 2010 Deadline: Jan 22, 2010	Trois- Rivieres, Quebec, Canada	30 Jun-2 Jul 10
S+SSPR 2010	Joint IAPR International Workshops on Structural and Syntactic Pattern Recognition (SSPR2010) and Statistical Techniques in Pattern Recognition (SPR2010) Deadline: Feb 1, 2010	Cesme, Izmir, Turkey	18-20 Aug 10
ICPR 2010	20th International Conference on Pattern Recogni- tion Deadline: Jan 15, 2010	Istanbul, Turkey	23-26 Aug 10
IWCF 2010	4th International Workshop on Computational Forensics Deadline: Jun 25, 2010	Tokyo, Japan	11-12 Nov 10
ICFHR 2010	12th International Conference on Frontiers in Handwriting Recognition Deadline: Feb 15, 2010	Kolkata, India	16-18 Nov 10
ICDAR 2011	11th International Conference on Document Analysis and Recognition Deadline: ?	Beijing, China	18-21 Sep 11

**FIRST CALL FOR PAPERS**  
 ICPR 2010 is the twentieth conference of the International Association for Pattern Recognition (IAPR).  
 ICPR 2010 will be an international forum for discussions on recent advances in the fields of Computer Vision; Pattern Recognition and Machine Learning; Signal, Speech, Image and Video Processing; Biometrics and Human Computer Interaction; Multimedia Analysis, Processing and Retrieval; Medical Imaging and Visualization.

**IMPORTANT DATES**  
 Deadline for paper submission: January 15, 2010  
 Deadline for tutorial proposals: February 15, 2010  
 Deadline for workshop proposals: November 15, 2009  
 Notification of acceptance: March 30, 2010  
 Camera ready papers and author registration: April 30, 2010  
 End of early bird registration period: May 15, 2010

[www.icpr2010.org](http://www.icpr2010.org)

The International Association for Pattern Recognition

<p><b>PAPER SUBMISSION</b>                  Authors will be requested to submit their papers electronically through the conference website by January 15, 2010.</p> <p><b>ORGANIZING COMMITTEE</b>  <b>Conference Chair</b>                  Aytaç Erdil Sabanci University, Turkey</p> <p><b>Technical Co-Chairs</b>                  Kim Boyer Rensselaer Polytechnic Institute, USA                  Mujdat Cetin Sabanci University, Turkey</p> <p><b>Advisory Committee</b>                  Sergey Ablameyko National Academy of Sciences, Belarus                  Huseyin Abut San Diego State University, USA                  Jake Aggarwal University of Texas, USA                  Hossain Bhanu University of Bern, Switzerland                  Rama Chellappa University of Maryland, USA                  Igor B. Gurevich Russian Academy of Sciences, Russia                  Anil K. Jain Michigan State University, USA                  Takeo Kanade Carnegie Mellon University, USA                  Rangachar Kasturi University of Surrey, UK                  Brian Lovell University of Queensland, Australia                  Pietro Perona California Institute of Technology, USA                  Alberto Sanfeliu Polytechnical University of Catalonia, Spain                  Bernhard Schölkopf Max Planck Institutes, Germany                  Mubarak Shah University of Central Florida, USA                  Tieniu Tan National Laboratory of Pattern Recognition, China                  Sergios Theodorakis University of Athens, Greece</p> <p><b>Plenary Speakers Committee</b>                  Anil K. Jain Michigan State University, USA</p> <p><b>Tutorials</b>                  Denis Laurendeau Laval University, USA                  Armin Ross West Virginia University, USA                  Bilhan Yazici Rensselaer Polytechnic Institute, USA</p>	<p><b>Workshops</b>                  Selim Aksoy Bilkent University, Turkey                  Theo Gevers University of Amsterdam, Netherlands                  Denis Laurendeau Laval University, USA                  Bulent Sankur Bogazici University, Turkey</p> <p><b>Publications</b>                  Cem Ursulan Yeditepe University, Turkey</p> <p><b>Local Arrangements</b>                  Aydin Bayazit Bogazici University, Turkey                  Mustafa Unel Sabanci University, Turkey</p> <p><b>Finance</b>                  Gulbin Akgun Sabanci University, Turkey                  Hakan Erdogmus Sabanci University, Turkey</p> <p><b>Publicity</b>                  Ernis Cetin Bilkent University, Turkey                  Pinar Duyugulu Sahin Bilkent University, Turkey</p> <p><b>Sponsorship</b>                  Fatma Yaman Yural Middle East Technical University, Turkey</p> <p><b>Exhibits</b>                  Oklay Kursun Bahcesehir University, Turkey</p> <p><b>TRACKS</b>                  We anticipate that the conference will feature six parallel theme tracks. Each theme track will address an area of interest to the pattern recognition community.</p> <p><b>TRACK CO-CHAIRS</b>  <b>Track I: Computer Vision</b>                  Joachim Bohmann ETH Zurich, Switzerland                  Xiaohu Jiang University of Munster, Germany                  Jussi Parkkinen University of Joensuu, Finland                  Alper Yilmaz Ohio State University, USA</p>	<p><b>Track II: Pattern Recognition and Machine Learning</b>                  G. Sammler di Baga Instituto de Ciéncias Eduardo Gómbria, Portugal                  Mario Figueireda Instituto Superior Técnico, Portugal                  Bilge Guntel Istanbul Technical University, Turkey                  D.Y. Yeung Hong Kong University of Science and Technology, China</p> <p><b>Track III: Signal, Speech, Image and Video Processing</b>                  John H.L. Hansen University of Texas, USA                  Maria Petrou Imperial College, UK                  Kazuya Takeda Nagoya University, Japan                  Murat Tekalp Koc University, Turkey</p> <p><b>Track IV: Biometrics and Human Computer Interaction</b>                  Işıl Akarun Bogazici University, Turkey                  Patrick Flynn University of Notre Dame, USA                  B. Vijaya Kumar Carnegie Mellon, USA                  Stan Z. Li Chinese Academy of Sciences, China</p> <p><b>Track V: Multimedia Analysis, Processing and Retrieval</b>                  Nozha Boujemaa French National Institute for Research in Computer Science and Control, France                  Benin Yanikoglu Sabanci University, Turkey                  B. S. Manjunath University of California, Santa Barbara, USA                  Nicola Sebe University of Amsterdam, Netherlands</p> <p><b>Track VI: Medical Imaging and Visualization</b>                  Rachid Deriche French National Institute for Research in Computer Science and Control, France                  Tianzi Jiang Chinese Academy of Sciences, China                  Dimitris Metaxas The State University of New Jersey, USA                  Gozde Unal Sabanci University, Turkey</p> <p><b>Congress Secretariat:</b>                    Tuzuncu Congress Organizing Committee                  Address: Sabanci University, PO Box No: 34911 Nispetiye - Sarıyer / Istanbul                  Phone: +90 212 494 10 00 Fax: +90 212 494 10 77                  Web: www.icpr2010.org E-mail: icpr2010@icpr10.org</p>
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**EDITORES DEL BOLETÍN**

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