

ISPRS

2012

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ISPRS AWARDS 2012

ISPRS Honorary Members

An individual is elected as a Honorary Member in recognition of distinguished services to the ISPRS and its aims. Honorary Members shall be nominated by a committee, chaired by the most recent Honorary Member and composed of members from the current and three previous Councils, and elected by the Congress. There may not be more than ten living Honorary Members of the Society at any given time. The Committee has nominated **Ian Dowman** (United Kingdom) and **Li Deren** (China) for election as Honorary Members of ISPRS.



Emeritus Professor Ian Dowman is nominated for Honorary Membership of ISPRS in recognition of his long and distinguished services to ISPRS and its aims. Ian has held many roles and responsibilities within the Society, up to and including the office of President.

Ian's contribution has been not only as an Officer of the Society; he has also made a significant research contribution to diverse ISPRS Commissions and Working Groups throughout his career, which has covered major developments in both photogrammetry and remote sensing and in the synergy between them. He has also participated in many other events in which he had no direct leadership role. Ian's proactive approach has ensured that the Society has turned many of these changes to its advantage.

Ian has had a very distinguished academic career at University College London (UCL). He gained his formal academic qualifications at UCL, completing a BSc in Geography, and a Diploma and PhD in Photogrammetry. After a short period working as a survey practitioner in Australia, he returned to UCL where he has held many academic positions including Dean of Engineering. From 1991 to 2008 he was Professor of Photogrammetry and Remote Sensing, a clear mark of the University authorities' recognition of his ability as a teacher as well as his contribution to the international research community in these fields.

Besides a sustained involvement with ISPRS, Ian has found time to make a significant contribution to organisations in the UK including the Royal Institution of Chartered Surveyors (RICS), the Photogrammetric Society he was President, and he was elected an Honorary Member in 1999. Ian has also been Chairman of the Scientific Committee of the Organisation Européenne d'Etudes Photogrammétriques Expérimentales (OEEPE, now EuroSDR, a Regional Member of ISPRS). He has been awarded many honours for his work. Such a distinguished and sustained international contribution in support of the activities and aims of the International Society for Photogrammetry and

Remote Sensing is presented as being worthy of Honorary Membership of ISPRS.



Professor Dr. Li Deren, scientist in photogrammetry and remote sensing, holds dual membership in both the Chinese Academy of Sciences and the Chinese Academy of Engineering, is member of the Euro-Asia International Academy of Science, and honorary doctor of ETH Zürich. At present, he is Professor and PhD supervisor of Wuhan University, Vice-President of the Chinese Society of Geodesy, Photogrammetry and Cartography, Vice-president of Hubei Association for Science and Technology (HAST), Chair of the Academic Committee of Wuhan University and the State Key Laboratory of Information Engineering in Surveying, Mapping and Remote Sensing (LIESMARS).

In the 1980s, Professor Li Deren was mainly engaged in the studies of observation errors and processing methods in geodesy and photogrammetry. In 1985, he completed theoretical research in the separability of model errors, which advanced the reliability theory to the separability phase. The result of this study received the 1988 Best Paper Award of the German Society of Photogrammetry and Remote Sensing, and Hansa Luftbild Award. From 1990 up to now Professor Li has concentrated on the research and education in geo-spatial information science and technology represented by remote sensing (RS), global positioning system (GPS) and geographic information systems (GIS).

Since 1989 Professor Li Deren has supervised 170 PhD students and 18 postdoctoral candidates. He has published over 709 papers and 11 books. He won one prize of the National Great Invention Award, three prizes of the National Science and Technology Progress Award, one prize of the National Excellent Textbook Award and one prize of the Award of the Excellent Educational Achievements.

Professor Li Deren served as President of ISPRS Technical Commissions III and VI from 1988-1992 and 1992-1996 respectively. He worked for CEOS in 2002-2004 and was the first President of Asia GIS Association (2003-2006). He received the Samuel G. Gamble Award at the ISPRS XXI Congress in 2008 and received an award in appreciation and recognition of the outstanding contribution to the success and achievements of the MOST/ESA Dragon Programme 2004 to 2007. Since 2010 he is ISPRS Fellow.

Li Deren is nominated as an Honorary Member for distinguished service to ISPRS and for his contribution to the science of photogrammetry, remote sensing and spatial information science in China and internationally.



Li Deren and Ian Dowman receiving their Honorary Membership

ISPRS Fellows

An ISPRS Fellow is elected by the Society in recognition of sustained, excellent service to the ISPRS and its aims.

The following persons have been selected to receive ISPRS Fellowships in 2012 by the Fellowship Nomination Committee.

Dieter Fritsch (Germany)



Professor Dr. Dieter Fritsch received his Dipl.-Ing. Surveying from the University of Bonn in 1977 and his PhD in Signal Processing, also from Bonn, in 1982. He received his Habilitation in Geographical Information Systems (GIS), from the Technical University of Munich. Since 1992 he has been Full Professor and Director of the Institute for Photogrammetry, University of Stuttgart. Dieter Fritsch has chaired or co-chaired various WGs of the International Society for Photogrammetry and Remote Sensing (ISPRS) and from 1996-2000 was President ISPRS Technical Commission IV “Mapping and GIS”. He is a member of the ISPRS ad-hoc Committee “Knowledge Transfer” and Chairman Board of Trustees The ISPRS Foundation (TIF). He has been active in IAG and EuroSDR in which he is Vice President of Research

Dieter Fritsch has held senior position in the University of Stuttgart, including being President from 2000-2006. He was the academic co-Founder of the German

University in Cairo (GUC), Egypt, and Member GUC Board of Trustees; 2002-2005: He is a member Board of Directors Leica Geosystems, Heerbrugg, Switzerland from 2004 to the present and holds other positions in commercial and academic organisations. Since 1992 he has been organizer of the biennial symposium “The Photogrammetric Week Series. He is Author of 16 books and more than 300 publications.

Martien Molenaar (The Netherlands)



Professor Dr. Martien Molenaar is with the Department of Geo-Information Processing Faculty of Geo-Information Science and Earth Observation (ITC) University of Twente. He has a Doctors degree in Geodesy of Delft Technical University. He was a senior lecturer at ITC (1973-1983) and a professor of GIS and Remote Sensing at Wageningen University (1983-1996). In 1996 he returned to the ITC as a full professor in Geoinformatics and Spatial Data Acquisition. From 2001 to 2009 he was Rector of the ITC, the International Institute for Geoinformation Science and Earth Observation. He is President of the Netherlands Geodetic Commission. He was also President of the Netherlands Photogrammetric Society and later of the Netherlands Society for Earth Observation and Geoinformation. He has been active in ISPRS since 1976 in many different positions, as chair of several working groups, as Director of the technical program of the Amsterdam 2000 Congress, as co-founder of the Amsterdam 2000 Trust Fund, as trustee of The ISPRS

Foundation, as member of ISAC and for the term 2008-2012 as President of ISPRS Technical Commission VI on Education and Outreach. Through his work he has been involved in international projects, consulting missions and he has been lecturing in many countries in Europe, Africa, Asia and Latin America. He has written more than 200 scientific publications on geodesy, photogrammetry, spatial data modeling, remote sensing and GIS.

Shailesh Nayak (India)



Dr. Shailesh Nayak has been the Chairman, Earth System Science Organization, Government of India since 2008. He obtained a Ph.D. degree in Geology from the M.S University of Baroda in 1980. He joined the Space Applications Centre, ISRO in 1978, and led projects related to ocean colour, coastal zone, snow and glacier, and water resources. Shailesh Nayak, as the Director of the Indian National Centre for Ocean Information Services, Hyderabad, set up a state-of-the-art Tsunami Warning System around GIS. He developed Marine GIS, and built services related to fishery, ocean state and hazards. Currently, he is responsible to establish National GIS in India. Shailesh Nayak has been awarded the prestigious ISCA Vikram Sarabhai Memorial Award 2012, Bhaskara Award for 2009, Indian National Remote Sensing Award for 1994, and Doctor of Science, by Andhra University in 2011. He has served the Indian Remote Sensing Society (ISRS) since 1983 and became President during 2008-2010. He has been actively involved in promoting ISPRS since 1994 and involved in activities of Commission I and VII, and became the President, ISPRS Technical Commission IV on 'Geo-databases and Digital Mapping' for the term 2004-08. Shailesh Nayak has published about 80 papers in SCI journals.

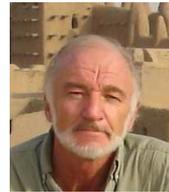
Paul Newby (UK)



Educated at Cambridge University, the School of Military Survey and University College London, Paul Newby was a land surveyor in UK government service (1966-1994), both overseas (mapping for development in Africa, the West Indies and Indonesia) and at the Ordnance Survey of Great Britain (researcher and manager, with main interests in digital photogrammetry and quality management). After taking early retirement, Paul's career included occasional university lecturing, starting a business intelligence company, Geo-UK Ltd. (1994-1998) and becoming a freelance technical translator (from German and French into English) covering geomatics and its applications, notably working for Swisstopo, contributing to the survey and mapping sections of the Swiss government's multilingual terminological database and providing

words destined for the walls of the Swiss Parliament and for the Swiss Alpine Museum, thus drawing together his twin loves of geography and mountaineering. He eventually found his true vocation as Editor of *The Photogrammetric Record* (1999-2011) and published the *Record's* "Terminology Guide" (2007), later officially adopted by ISPRS. He first attended an ISPRS Symposium in 1982, was Chairman of WG IV/3 (Map and Database Revision, 1988-96), Vice President of the Photogrammetric Society (1997-99) and UK Delegate to ISPRS General Assembly from 2004.

Heinz R  ther (South Africa)



Emeritus Professor Heinz R  ther graduated in 1969 with the Degree of Diplom-Ingenieur at the University of Bonn, joined the University of Cape Town in 1972 and obtained his Ph.D. in Photogrammetry at UCT in 1982. He is a Fellow of the University of Cape Town, a Fellow of the South African Academy of Engineers, a Member of the South African Academy of Science and an Honorary Member of GISA. He was treasurer of ISPRS from 1996-2000, and former Chair of the Financial Commission of ISPRS as well as former Vice President of the African Association for Remote Sensing of Environment. At present he serves on the Governing Board of HIST, a joint initiative of the Chinese Academy of Science and UNESCO. From 1990 to his retirement in 2007, he was the Head of the Geomatics Department/Division at the University of Cape Town and Scientific Coordinator of the Lake Rukwa Basin Integrated Project in Tanzania from 2004 to 2007. Since 2005 he leads the African Cultural Heritage Sites and Landscapes Project as Principal Investigator. Over recent years Professor R  ther's special interest has been focused on the area of digital spatial documentation of architectural structures, heritage sites and historical landscapes with a special emphasis on Africa. He has served on the executive of CIPA (the International Committee for Photogrammetry in Architecture) and has served as ISPRS representative on the CIPA committee; he is National CIPA delegate for South Africa and a member of ICOMOS South Africa.



Paul Newby, Dieter Fritsch and Martien Molenaar receiving their Fellowship

The Brock Gold Medal - Franz Leberl (Austria)



The Brock Gold Medal Award is donated by the American Society for Photogrammetry and Remote Sensing, and is awarded for an outstanding landmark contribution in the evolution of the photogrammetry, remote sensing and spatial information sciences, which is a proven contribution to these sciences and technologies of whatever form, whether a major completed project or program, some fundamentally new equipment, system or fundamentally new technique, or other new departure. The winner is Franz Leberl (Austria).

Professor Dr. Franz Leberl is awarded the Brock Gold Medal as he has achieved landmark developments in the fields of photogrammetry and remote sensing over the past 30 years. These can be summarized as follows:

- He was a pioneer in the development of radargrammetry and the applications of imaging radar and published a definitive textbook on the subject;
- He played a major role in projects on mapping the planets using radar images;
- He was an early innovator in ISPRS with the commencement of the Working Group Mathematical Pattern Recognition and Image Analysis from 1976 to 1984;
- He developed and marketed a photogrammetric precision film scanner, the UltraScan from 1998 with over 600 units sold, and a digital large format aerial camera UltraCam from 2003, with ~ 250 sold;
- He was President of ISPRS Commission III from 2000-2004;
- He has published over 330 scientific papers and holds 15 patents;
- He has received numerous honours both in the scientific arena and nationally.

Franz Leberl is a professor of Computer Science at Graz University of Technology in Austria. Born in 1945, he graduated from Vienna University of Technology [Dipl.-Ing., 1967, Dr. techn., 1972]. His career took him to the International Institute for Geo-Information and Earth Sciences [ITC, The Netherlands], to NASA's Jet Propulsion Laboratory [Pasadena, CA], a first professorship in Graz [Austria] in photogrammetry [1976-1984], and since 1992 in computer science. He founded the research Institute for Digital Image Processing at Joanneum Research Graz (1980), the Institute for Computer Graphics and Vision at Graz University of Technology, was the CEO of the Austrian Research Centers [Vienna, Austria, 1996-1998], started companies in the USA [Vexcel Corp., 1985] and in Austria [Vexcel Imaging

GmbH, 1993], and exited from business by a sale of the company to Microsoft in 2006.



Franz Leberl receiving The Brock Gold Medal

The Otto von Gruber Award - Jan-Henrik Haurert (Germany)



The Otto von Gruber Award, which is donated by International Institute for Geo-Information Science and Earth Observation (ITC), consists of a medal and a monetary grant, and is presented to the author, under 40 years of age, of a paper of outstanding merit in the photogrammetry, remote sensing and spatial information sciences over the 4 years prior to the Congress. The winner of the award is Jan-Henrik Haurert (Germany).

Dr. Jan-Henrik Haurert works in the department of Computer Science, University of Würzburg He was born in 1978 and studied geodesy and geoinformatics at the University of Hannover, Germany, and the Helsinki University of Technology, Fin-land. In 2003, he graduated in Hannover with distinction. Afterward, he became a Ph.D. student at the Institute of Cartography and Geoinformatics in Hannover, where he achieved his Ph.D. in 2008 with distinction, i.e., with the best possible grade. In his dissertation, he developed algorithms for map generalization, in particular, for the automatic aggregation of areas in planar subdivisions. The methods he developed proved to be applicable for a broad range of problems in spatial data processing, e.g., in image or map interpretation and in 3D generalization. In an exceptional way, the work of Dr. Haurert bridges the gap between theory and application, covering a broad range of topics such as spatial databases, cartographic visualization, map matching, combinatorial optimization, and computational geometry.

Haurert's award is based on the following publications:

- J.-H. Haurert and L. Sering. Drawing Road Networks with Focus Regions, 2011. IEEE Transactions on Visualization and Computer Graphics,17(12):2555-2562.
J.-H. Haurert and A. Wolff. Area aggregation in map generalisation by mixed-integer programming, 2010.

International Journal of Geographical Information Science, 24(12):1871-189.

J.-H. Haurert, A. Dilo and P. van Oosterom, 2009. Constrained set-up of the tGAP structure for progressive vector data transfer. *Computers & Geosciences*, 35(11):2191-2203.

J.-H. Haurert and M. Sester. Assuring logical consistency and semantic accuracy in map generalization, 2008. *Photogrammetrie - Fernerkundung - Geoinformation (PFG)*, 2008(3):165-173.

J.-H. Haurert and M. Sester. Area collapse and road centerlines based on straight skeleton, 2008. *GeoInformatica*, 12(2):169-191.



Jan-Henrik Haurert receiving The Otto von Gruber Award

The U.V. Helava Award - Konrad Schindler (Switzerland), Andreas Ess (Switzerland), Bastian Leibe (Germany), and Luc Van Gool (Belgium)

Paper entitled "Automatic detection and tracking of pedestrians from a moving stereo rig".

The U.V. Helava Award, sponsored by Elsevier B.V. and Hexagon Geosystems, was established to encourage and stimulate submission of high quality scientific papers by individual authors or groups to the *ISPRS Journal of Photogrammetry and Remote Sensing*, to promote and advertise the Journal, and to honour the outstanding contributions of Dr. Uuno V. Helava to research and development in Photogrammetry and Remote Sensing. The award consists of a monetary grant of SFr. 10,000, certificates and a silver plaque, partly funded by the Institute of Photogrammetry and Remote Sensing, of the Aalto University, Finland. The plaque was designed by the 1980-88 ISPRS Technical Commission III President, Einari Kilpelä, previously Professor at the Helsinki University of Technology.

A five-member jury, comprising experts of high scientific standing, whose expertise covers the main topics included in the scope of the Journal, evaluated 261 papers for the period 2008-2011. For



each year of the four-year evaluation period, the Best Paper was selected and has been announced in the *ISPRS Journal*, *ISPRS Newsletter*, and on the websites of *ISPRS* and *Elsevier*. The paper receiving the Helava Award was selected from these four papers. The 2008-2011 U.V. Helava Award is presented to Konrad Schindler, Andreas Ess, Bastian Leibe, and Luc Van Gool for their paper "Automatic detection and tracking of pedestrians from a moving stereo rig", published in 2010.

The jury stated that the paper presents a sophisticated system to detect and track pedestrians from moving vehicles. It combines close-range photogrammetry of dynamic scenes and automatic image understanding. The topic is highly relevant for ground based navigation systems. The objective, namely to have a real time interpretation system, is challenging. The paper gives insight into the different modules and presents an impressive quantitative evaluation. It is well organized, interesting, and easy to read.



Konrad Schindler receiving the U.V. Helava Award

The Frederick J. Doyle Award - Christian Heipke (Germany)



The Frederick J. Doyle Award (2012) will be awarded to an individual who has made significant accomplishments in advancing the photogrammetry, remote sensing and spatial information sciences and technologies. A recipient of the award should typically be less than 50 years of age and have outstanding stature within the *ISPRS* community. The award consists of a silver medal and a monetary grant. The winner in 2012 is Christian Heipke, Germany.

Professor Dr. Christian Heipke's experience in all aspects of photogrammetry and remote sensing at a time when geographic information systems were being developed and used operationally to integrate and analyze digital data led to his well-rounded career in geoinformation. In his capacity as Head of the Institute of Photogrammetry and GeoInformation at Leibniz Universität Hannover, Professor Heipke has supervised more than 20 Ph.D. theses. He and his students have written over 270 scientific publications with 70 in the top peer reviewed journals of our field including ISPRS Journal of Photogrammetry and Remote Sensing, Photogrammetric Engineering & Remote Sensing, International Journal of Geoinformation Science, Planetary and Space Science, Machine Vision and Applications, Geoinformation and Photogrammetric Record.

Professor Heipke has been the Guest Editor of major international journals in photogrammetry and remote sensing and serves on the Editorial Boards of several international journals. He was Vice-President of EuroSDR (2004-2009) and is currently Chair of the German Geodetic Commission.

In addition to being active in ISPRS, Professor Heipke is an ordinary member of the Braunschweig Scientific Society (BWG) and acatech - the German Academy for Technical Sciences. Furthermore, he is a member of the German Society for Geodesy, Geoinformation and Land Management (DVW), the German Society for Photogrammetry, Remote Sensing and Geoinformation (DGPF), the German Society for Pattern Recognition (DAGM), the American Society for Photogrammetry and Remote Sensing (ASPRS), and the Institute of Electrical and Electronics Engineers (IEEE).

Professor Heipke has demonstrated excellence in leadership and contribution to ISPRS through his biannual organization and hosting of one of the highest quality international workshops entitled "High-Resolution Earth Imaging for Geospatial Information" at the Institute of Photogrammetry and GeoInformation, Leibniz Universität Hannover.

In summary, Professor Heipke deserves the ISPRS Frederick Doyle Award because of his outstanding leadership in digital photogrammetry, remote sensing, image analysis, sensor orientation, GIS and computer vision. He has made major contributions to the geospatial profession through his biannual international workshop on high-resolution Earth imaging for geospatial information, and he continues to shape our profession and the direction of geospatial research. The jury considers that Christian Heipke is following in the footsteps of our esteemed colleague, Frederick Doyle, as an educator, scientist and professional society leader.

The Eduard Doležal Award - George Sithole (Zimbabwe)



The Eduard Doležal Award is donated by the Austrian Society for Surveying and Geoinformation to assist individuals or representatives of institutions from

developing or reform countries to participate in the ISPRS Congress. The winner is George Sithole, Zimbabwe.

Dr. Sithole is a senior lecturer of photogrammetry at the Geomatics Department of the University of Cape Town, South Africa. Despite a heavy workload because of educational tasks, both for him and for the small research team in his department, he is very active in research, and he is, for example, involved in a number of papers to be presented at the congress in Melbourne.

Dr. Sithole conducted his Ph.D. research at the TU Delft 2001-2005. The basis for this award is a publication he made during this period, entitled "Experimental comparison of filter algorithms for bare-Earth extraction from airborne laser scanning point clouds", which appeared in the ISPRS journal, August 2004. The paper introduces a test designed by Dr. Sithole to determine the performance of filters extracting bare-earth DEMs from airborne laser data. This paper has turned out to have presented the de-facto standard for the evaluation of airborne lidar data filtering. The availability of such a standard is highly relevant in the light of the increasing routine production of high-density elevation datasets. e.g. the AHN-2 in the Netherlands, where automatic filtering has a decisive influence on the data quality.

The importance of Dr. Sithole's paper in photogrammetry literature is illustrated by the number of citations made to it. According to Google Scholar the paper has been cited 265 times. In Scopus, where only citations in journal papers are considered, the count is at currently at 165. Scopus' citation counts also show that the relevance of the paper is still increasing: 64 citations were for the period 2005-2008 and 105 for 2009-2011. In the opinion of the jury the above qualifies Dr. Sithole for the Doležal Award.

Karl Kraus Medal – George Vosselman (The Netherlands), Hans-Gerd Maas (Germany)



The Karl Kraus Medal (2010), sponsored by the German Society of Photogrammetry, Remote Sensing, and Spatial Information Sciences (DGPF), the Austrian Society of Surveying and Geoinformation (OVG), and the Swiss Society of Photogrammetry, Image Analysis, and Remote Sensing (SGPBF), is awarded to authors of excellent textbooks in the fields of Photogrammetry, Remote Sensing, and Spatial Information Sciences, written in one of the official languages of the ISPRS, and published no more than eight years prior to the commencement of the quadrennial ISPRS Congress at which it is to be

presented. The medal is awarded to George Vosselman and Hans-Gerd Maas for their Text-Book "Airborne and Terrestrial Laser Scanning"

Professor Dr. George Vosselman is Professor of Geo-Information Extraction with Sensor Systems at ITC in University of Twente. Professor Dr. Hans-Gerd Maas is professor of Photogrammetry and Remote Sensing, Dresden University of Technology. The jury considered that although written by many different authors, the book highly fulfils all criteria of a textbook. The chapters have been written by different authors, but the editors made a real and successful effort of combining and editing them into a complete well-structured text book. It provides a self-contained introduction to the topic of airborne and terrestrial laser scanning including all the relevant formulae. It could be used as a base literature for respective courses both on the bachelor's and master's level. Due to the focus on the presentation of methods instead of systems it will remain up-to-date for a significant time period. It gives an excellent explanation of the physical and technical aspects of data acquisition and processing. Mathematical formulae have been given where useful and in an accessible style.

The Schwidefsky Medal - George Vosselman (The Netherlands)



The Schwidefsky Medal is sponsored by Deutsche Gesellschaft für Photogrammetrie und Fernerkundung (DGPF), in memory of Professor Dr. rer. techn. Dr.-Ing.e.h. Kurt Schwidefsky, Honorary Member of the ISPRS. The Award is in the form of a medal made of

porcelain. The recipients shall be persons who have made significant contributions to photogrammetry and remote sensing, either through the medium of publication as author or editor, or in another form. The Schwidefsky Medal is awarded to George Vosselman, The Netherlands.

Professor Dr. George Vosselman is Professor of Geo-Information Extraction with Sensor Systems in the Faculty of Geoinformation Science and Earth Observation (ITC) of the University of Twente. During George Vosselman's appointment as Editor in Chief, the International Journal of Photogrammetry and Remote Sensing (IJPRS) has improved in multiple aspects. IJPRS has improved its ISI position among the category of remote sensing journals, becoming the journal with the 3rd highest impact factor in this category and improving values for other citation criteria, such as the 5-year impact factor, and total cites of previous years. The review process has been speeded up and the whole paper processing procedure runs well via a comfortable WEB interface; this has been assisted by the appointment of additional associate editors. The number of submitted papers has increased and a healthy backlog exists. The size of the journal has been increased, both physically and in the number of pages published on the

average; two special/theme issues per year are published, strengthening the ties with the scientific work of ISPRS Commissions and WGs. Relations to the publisher (Elsevier) have been running smoothly, and although some of the above improvements could have resulted in a corresponding increase of subscription fees, this has not been the case.

All above improvements are to a significant extent due to the dedicated and careful work of George Vosselman.

The Willem Schermerhorn Award – Cemal Özgür Kıvılcım (Turkey)



The Willem Schermerhorn Award (1988), sponsored by Geo-Information Netherlands is granted to a person who has most significantly contributed to the activities of a Working Group of the ISPRS during the four year Congress period. The award consists of

a certificate and has been awarded to Cemal Özgür Kıvılcım, Turkey

Cemal Özgür Kıvılcım has led and coordinated to a large degree the activities of the Student Consortium (SC). He was also very capable in representing the SC in various fora and cooperating with the TC VI President and the Council. He was active in the SC also before the Beijing Congress as SC Coordinator-in-Chief (2006-2008), and has been involved also in other student organisations (among them he is co-founding member of the FIG Young Surveyors). Cemal and his colleagues played an essential role in forming and shaping the ISPRS Student Consortium and invested much of their time to make it an official component of the ISPRS organization. They developed the structural and sustainable relationships with other organizations for young professionals and students, many of whom are part of sister societies of ISPRS. Cemal's activities were continuous and stable during the past 4-years in spite of several personal difficulties and the fact that he is working and studying at the same time. Cemal obtained his bachelor degree at Yildiz Technical University in Istanbul and is currently studying for his Ph.D. at the Istanbul Technical University, while at the same time he is working for the Municipality of Istanbul.

This award also recognises the contribution of the other members of the Student Consortium Council.

The Samuel Gamble Award – Kohei Cho (Japan)



The Samuel Gamble Award is sponsored by the Canadian Institute of Geomatics in honour of Dr. Samuel G. Gamble, former President of ISPRS, and Director of the 1972 Congress. A recipient of the award shall be a person who, like Dr.

Gamble, has contributed significantly to the development, organization or professional activities of the photogrammetry, remote sensing and spatial information sciences, at the national or international level. The winner of the Award is Kohei Cho, Japan.

Professor Dr. Kohei Cho is a Professor of the Department of Network and Computer Engineering of Tokai University, Japan. He has made significant contributions in the field of remote sensing. His dedication to working on education and international coordination in Asia are especially outstanding.

Between 1982 and 1992 Kohei Cho worked for government agencies in Japan and in 1992, he moved to Tokai University. From 1992 to 1996, he was involved in the Regional Remote Sensing Seminar on Tropical Ecosystem Management co-organized by NASDA and ESCAP every year in countries in Asia. In 1996, he initiated the educational software contest CATCON at the ISPRS Vienna Congress. Since then, CATCON has been organized every four years at the ISPRS Congresses and has become one of the official events of ISPRS. In 2004, Kohei Cho was elected as the President of ISPRS Commission VI on Education and Outreach, and he initiated the Student Consortium as the first official student organization within ISPRS. In 2007, he was elected as the Deputy General Secretary of AARS to support the General Secretary. At the ACRS 2008 in Colombo, he initiated a new student program for students under the framework of ACRS. He continually promotes and encourages students and young scientists in Asia. In 2009 he was elected as the General Secretary of AARS, and was awarded the Dr. Boon Indrambarya Gold Medal to his contribution to remote sensing in the Asian region. He has published more than 100 papers on remote sensing in national and international journals and proceedings. He is also co-author of 14 books on remote sensing and image processing.

The Wang Zhizuo Award – Wenzhong Shi (Hong Kong)



The Wang Zhizuo Award is sponsored by the Chinese Society of Geodesy, Photogrammetry and Cartography (CSGPC) and consists of a medal and a monetary grant. It will be granted at each quadrennial ISPRS Congress to a person who has made significant achievement or innovation in the spatial information sciences. The winner of the Award is Wenzhong Shi, Hong Kong.

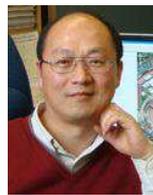
Professor John Shi is a Professor in GIS and remote sensing, Department of Land Surveying and Geo-Informatics, and Director of Advanced Research Centre for Spatial Information Technology, The Hong Kong Polytechnic University.

Professor Shi obtained his doctoral degree from University Osnabrueck in Vechta, Germany in 1994. His

current research interests include GIS, remote sensing, uncertainty and spatial data quality, image processing for high resolution satellite images. He has published over 380 research articles (including over 70 SCI papers) and 10 books.

Professor Shi has proposed and developed important principles of modelling uncertainties in spatial data and spatial analyses in the last twenty years. This can be regarded as a significant contribution to the progress and knowledge accumulation of an important field of geographic information science: data quality and uncertainty modelling for spatial data and spatial analysis. Professor M. Goodchild comments on the Shi's book on the principles (2009) as follows: "John Shi has been one of the leaders in this research area. He has made very significant contributions, particularly in the modeling of uncertainties in geographic features of complex geometry." "Both statistical and fuzzy frameworks are covered in this book, which provides a comprehensive overview of the current state of the field. At the same time it strongly reflects John Shi's own approaches, and the very significant contributions he has made."

The Giuseppe Inghilleri Award - Yun Zhang (Canada)



The Giuseppe Inghilleri Award (2012), sponsored by the Italian Society for Surveying and Photogrammetry (SIFET) is presented to a person who has significantly enhanced the applications of photogrammetry, remote sensing or spatial information sciences in the 4 years preceding the Congress. The award consists of SFr 2,500 and a certificate. The winner of the award is Yun Zhang, Canada.

Dr. Yun Zhang holds a Canada Research Chair in Advanced Geomatics Image Processing, and a Professor in the Department of Geodesy and Geomatics Engineering at the University of New Brunswick (UNB), Canada. He is a highly successful researcher and innovator whose considerable achievements in the spatial information sciences have earned him an international reputation. Dr. Zhang developed a fundamentally new algorithm for automated fusion of high resolution panchromatic (Pan) and low resolution multispectral (MS) images of modern satellites and digital aerial cameras to produce high resolution (pan-sharpened) MS images. The UNB PanSharp algorithm developed by Dr. Yun Zhang demonstrably stands out from all the pan-sharpening algorithms developed since the mid-1980s. Its novelty has been recognized by the patent community. The significant contribution of Dr. Zhang's algorithm to international spatial information sciences and its proven impact on global multi-disciplinary remote sensing applications has been demonstrated by the number of global users since 2003. It was recognized by AUTM as one of the top 100 successful research achievements in 2006, along with technologies from MIT, Yale, Stanford, Columbia, and Brown Universities.

President's Citations

The President's Honorary Citation is a certificate of recognition presented by the President of ISPRS to a chairperson, co-chairperson or member of a Working Group of each ISPRS Technical Commission. The citation is to recognize special, personal and meritorious contributions to the operation of the relevant Technical Commission's activities and advancement of its interests, during the quadrennial term of the Society

Technical Commission I: Ayman Habib, Professor and Head, Department of Geomatics Engineering, the University of Calgary was selected for the ISPRS President's Citation because of his demonstrated leadership of Working Group (WG) WG I/3 - Multi-Platform Multi-Sensor Inter-Calibration, supporting the objectives and mission of the Commission I, playing major roles in many of Commission I meetings and activities, leading the first International workshop on Multi-platform/multi-sensor remote sensing and Mapping, Xiamen City, Fujian, China, leading the activities of the ISPRS Workshop, Laser Scanning 2011, and invaluable assistance to Commission I TCP during the Commission I symposium.

Technical Commission II: Cheng Tao, Professor at University College London, co-chair of ISPRS II/3, successfully organised the International Symposium on Spatio-Temporal Analysis and Data Mining 2011 in association with the 11th International Conference on Geocomputation 2011 at University College London. She is nominated for ISPRS 2012 President's Honorary Citation for her effort in organising STDM 2011 and in advancing interest of WG II/3 to the broad communities of Geography, GIS and computer sciences.

Technical Commission III: Franz Rottensteiner, Professor of the Leibniz University of Hannover, was selected for the ISPRS President's Citation because of his continuous involvement in several Commission III Joint WG Workshops and symposia during the 2008-2012 term. He chaired two major ISPRS events, the CMRT'09 workshop "Object extraction for City Models, Road databases and Traffic Monitoring" held in Paris, France, and the PIA'11 workshop "Photogrammetric Image Analysis", in Munich,

Germany. He also organised and led the successful ISPRS benchmark project on Urban Classification and 3D Building Reconstruction.

Technical Commission IV: Jie Jiang, Director of the Department of Common Platforms for Geoinformation Service, National Geomatics Center of China, was selected for the ISPRS President's Citation because of her demonstrated leadership of Working Group (WG) IV/1 (Geospatial Data Infrastructure), involvement in several Commission IV Joint WG Workshops during the 2008-2012 term, invaluable assistance to Commission IV TCP and organization of the successful 2011 Workshop, "From Data Acquisition and Updating to Smarter Services" held in Guilin, China.

Technical Commission V: Fabio Remondino, head of 3DOM research unit, FBK Trento, Italy, was selected for all-round meritorious contribution to, and promotion of, Commission V activity.

Technical Commission VI: Manos Baltasavias, from the Institut f. Geodäsie u. Photogrammetrie, ETH Zürich, was selected because of his activities to ensure the success of the ISPRS Student Consortium. His support for the Board of the Consortium including the development of the organization and its agenda, especially the organization of summer schools, contributed greatly to its success.

Technical Commission VII: Uwe Sörgel, Professor for Radar Remote Sensing and active Systems at IPG Hannover, receives the award for his contributions to advancing international scientific cooperation in the field of SAR Interferometry.

Technical Commission VIII: Amelia Budge, from the Earth Data Analysis Centre, University of New Mexico, the Chair of ISPRS WG VIII/2, has been instrumental in organizing, contributing to, and participating in health-related sessions at national and international conferences. These activities include, but not limited to, co-organization of WG VIII/2 International Symposium, organization of sessions in several International Symposia, and collaboration with, and contributions to, GEO, ICSU, IUGS and UNOOSA meetings.

CATCON Prize

At the Congress, the CATCON Prizes (199 a software Computer Assisted Teaching Contest, was organized by ISPRS Technical Commission VI and funded by The ISPRS Foundation. The main objective of the contest is to promote the development and dissemination of good, user-friendly software packages, www contents and data sets for computer assisted teaching, which preferably are non-commercial and free. Typically the prizes consist of a Gold Award (SFr. 3,000), Silver Award (SFr. 2,500), and Bronze Award (SFr. 1,500) and a certificate.

Technical Commission WG VI/2 organized the sixth contest for Computer Assisted Teaching CONtest "CATCON 6" at the ISPRS Congress, Melbourne, Australia, on Thursday, 30 August, 2012. The main objective of the contest is to promote the development and dissemination of effective, educational and user-friendly:

- multimedia tutorials,
- podcasts,
- simulations and virtual environments,
- information packages or data sets, and
- application software
- designed and used specifically for computer assisted teaching (CAT) in photogrammetry, remote sensing or GIS.

In general, the CAT tutorial, software or data set is preferred to be non-commercial and provided to users without licence charges or other fees for not-for-profit use. Since many ISPRS attendees have been interested in this contest at three previous Congresses, this is a very good opportunity to show the effectiveness and utility of your CAT product.

Award	Contestant	Entry
Gold CHF 3000	M.P. Imhof, M.T. Cox, D.W. Harvey, G.E. Heemskerk, and C.J. Pettit Future Farming Systems Research Division Department of Primary Industries, Australia	Landscape Visualisation on the Internet
Silver CHF 2500	Diego Gonzalez-Aguilera, Diego Guerrero, David Hernandez-Lopez, Pablo Rodriguez-Gonzalvez, Marc Pierrot, Jesus Fernandez-Hernandez University of Salamanca, Spain	PW, Photogrammetry Workbench
Bronze CHF 1500	Aguiar, R.A. Brito, J.L.N.S. Badolato, I.S. Bernardo Filho, O. Coelho Filho, L.C.T. Pupin, P.A.B. Reolon, P.F. Ribeiro, J. Ribeiro, J.A. Silveira, F.J.C. Silveira, M.T. The Rio de Janeiro State University (UERJ), Cartographic Engineering, Brazil	The E-FOTO project

Young Authors Awards

The prizes for Best Papers by Young Authors, are sponsored by donor organizations and by ISPRS to authors

who are less than 35 years old and are the sole authors of a high quality paper presented at the Congress.

TC	Author (Country)	Paper
I	Rongfu Tang (Germany)	A Rigorous and Flexible Calibration Method for Digital Airborne Camera Systems
IV	Xiaoliang Meng (China)	Field ground truthing data collector-a mobile toolkit for image analysis and processing
V	Shun Hirose (Japan)	Simple Room Shape Modelling with Sparse 3D Point Information using Photogrammetry and Application Software
VII	Janja Avbelj (Germany)	Spectral Information Retrieval for Sub-Pixel Building Edge Detection
VII	Maryam Mohammadi (Germany)	Road Classification and Condition Determination using Hyperspectral Imagery
VIII	Gay Jane P Perez (Philippines)	Observed Changes and Vulnerability of Philippine Forestry and Agriculture



Rongfu Tang receiving his Award



Xiaoliang Meng receiving his Award



Janja Avbelj receiving her Award

Youth Forum Awards

The Youth Forum Best Paper Award, sponsored by Leica Geosystems with 1000 SFr., was selected by a jury.

Author (Country)	Paper
Wilfried Hartmann (Switzerland)	Determination of the UAV Position by Automatic Processing of Thermal Images

Best ePoster Awards

TC	Author	Paper
I	Joshua Kelcey and Arko Lucieer	Sensor Correction and Radiometric Calibration of a 6-Band Multispectral Imaging Sensor for UAV Remote Sensing
	Michael Thiele	Cody Anderson and Andreas Brunn: Cross-calibration of the RapidEye Multispectral Imager Payloads using Pseudo-Invariant Test Sites
II	Jochem Lesparre and Ben Gorte	Simplified 3D city models from LIDAR
	Jangping Chen <i>et al</i>	A research on spatial topological association rules mining
III	Sitki Külür, Mahir Temiz and Sedat Dogan	Real time speed estimation from monocular video
	Alena Schmidt, Franz Rottensteiner and Uwe Soergel	Classification of airborne laser scanning data in Wadden Sea areas using conditional random fields.
IV	Fabio Menna, Erica Nocerino and Fabio Remondino	Multi-temporal Analysis of Landscape and Urban Areas: The MEM3D Project
	Daniel Buchmueller, Michael Kroepfl and Fanz Leberl	Online Maps and Cloud-Supported Location-Based-Services across a Manifold of Devices
V	Ting On Chan and Derek Lichti	Cylinder-based Self-calibration of a Panoramic Terrestrial Laser Scanner
	Heidi Hastedt and Thomas Luhmann	Investigations on a Combined RGB / Time-of-Flight Approach for Dynamic Close Range Applications
VII	Mehmet Ugur Altin, Ergin Tari and Linlin Ge	InSAR Atmospheric Delay Mitigation by GPS; Case Study Izmit Earthquake Interferograms
	Seongjoon Kim, Impyeong Lee and Mijin Lee	LIDAR Waveform Simulation over Complex Targets
VIII	Elizabeth M. Morse-McNabb	NDVI from Active Optical Sensors as a Measure of Canopy Cover and Biomass
	Natasha Costa Penatti	Subdivision of Pantanal Quaternary Wetlands: MODIS NDVI Time-series in the Indirect Detection of Sediments Granulometry

LIST OF ISPRS AWARD WINNERS

Brock Gold Medal (founded 1952)

1956	L. Bertele (Switzerland)
1960	W. Schermerhorn (The Netherlands)
1968	H. Schmidt (USA)
1972	U.V. Helava (Canada)
1976	F. Ackermann (Germany)
1980	G. Hobrough (Canada)
1984	F.J. Doyle (USA)
1988	D. Brown (USA)
1992	G. Brachet (France)
1996	Y.S. Tjufliin (Russia)
2000	J. Dangermond (USA)
2004	K. Kasturirangan (India)
2008	A. Grün (Switzerland)
2012	F. Leberl (Austria)

Otto von Gruber Award (founded 1960)

1964	F. Ackermann (Germany)
1968	E. Ebner (Germany)
1972	J. Hohle (Germany)
1976	F. Leberl (Austria)
1980	A. Grun (Switzerland))
1988	P. Curran (Great Britain)
1992	C. Heipke (Germany)
1996	H-G Maas (Switzerland)
2000	H. Mayer (Germany) M.G. Vosselman (The Netherlands)
2004	S. Heuel (Switzerland)
2008	M. Butenuth (Germany)
2012	Jan-Henrik Haunert (Germany)

Samuel Gamble Award (founded 1988)

1988	O. Coker (Nigeria) B.A. Sikilo (Kenya) A.J. van der Weele (The Netherlands)
1992	M. Carbonnell (France) G. Hildebrandt (Germany) S. Vibulsresth (Thailand)
1996	P. Waldhausl (Austria) M.A. Figueroa (Chile)
2000	A. Abiodun (Germany) B. Foster (Australia)
2004	R. Harris (UK), H. Nyapola (Kenya), V. Savinykh (Russia)
2008	W. K. Ottichilo (Kenya), J. Kufoniyi (Nigeria) L. Deren (China)
2012	K. Cho (Japan)

Schwidefsky Medal (founded 1988)

1988	K. Rinner (Austria) G.C. Tewinkel (USA)
1992	K. Atkinson (Great Britain) W. Hofman (Germany)
1996	J.B. Case (USA) A.P. Cracknell (United Kingdom)
2000	G. Ducher (France) L.R.A. Narayan (India)
2004	E. Baltsavias (Switzerland) Z. Li (Hong Kong)
2008	G. Kemper (Germany) K. Szangolies (Germany)
2012	G. Vosselman (The Netherlands)

Schermerhorn Award (founded 1988)

1988	G. Guyot (France)
1992	I. Dowman (United Kingdom)
1996	D.M. McKeown (USA)
2000	T. Woldai (The Netherlands)
2004	M. Madden (USA)
2008	S. Zlatanova (The Netherlands)
2012	C. Ö. Kivılcım (Turkey)

The Eduard Doležal Award (founded 1992)

1996	0. Ayeni (Nigeria) F. Batuk (Turkey) A. Bujakiewicz (Poland) G. Coskun (Turkey) M.. Dalati (Syria) M. Ebrahim (Egypt) J. Gong (China) S. Jayatilaka (Sri Lanka) R. Kaczynski (Poland) A. Kirsanov (Russia) M. Koudmani (Syria) S. Mayabu (Zaire) L. Narayan (India) N. Ononiwu (Nigeria) C. Robbi (Brazil) J. Ru (China) M. Saandar (Mongolia) N. Shahriari (Iran) P. Sharma (India) B. Shrestha (Nepal) V. Sokolova (Russia) K. Sukup (Czech Rep.) M. Talbi (Tunisia) A. Tommaselli (Brazil) V. Vainauskas (Lithuania) R. Zhang (China) Ethiopian Mapping Authority (Ethiopia) Institut Agronomique et Veterinaire Hassan II (Morocco)
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- Romanian Society for Photogrammetry and Remote Sensing (Romania)
University of Mining & Metallurgy (Poland)
- 2000 P. Tarikhi (Iran)
U.R. Rao (India)
I. Katzarsky (Bulgaria)
- 2004 J. Jie (China)
- 2008 N. D. Duong (Vietnam)
- 2012 G. Sithole (Zimbabwe)

The Gino Cassinis Award (founded 1997)

- 2000 W. Förstner (Germany)
2004 S. S. C. Wu (USA)
2008 Z. Li (Hong Kong)

The Helava Award (founded 1998)

- 2000 M. Sinning-Meister (Germany)
A. Grün (Switzerland)
H. Dan (Switzerland)
- 2004 Changno Lee (South Korea)
James S. Bethel (USA)
- 2008 H. Grabner (Switzerland)
T. T. Nguyen (Austria)
B. Gruber (Austria)
H. Bischof (Austria)
- 2012 K. Schindler (Switzerland)
A. Ess (Switzerland)
B. Leibe (Germany)
L. V. Gool (Belgium)

The Wang Zhizhuo (founded 1998)

- 2008 C. Gold (UK)
2012 J. Shi (Hong Kong)

The Giuseppe Inghilleri Award (founded 2008)

- 2012 Y. Zhang (Canada)

The Karl Kraus Medal (founded 2009)

- 2012 G. Vosselman (The Netherlands)
H.-G. Maas (Germany)

The Frederick J. Doyle Award (founded 2010)

- 2012 C. Heipke (Germany)

The President's Honorary Citations

- 2000 K. Jacobsen (Germany)
C. Heipke (Germany)
B. Csatho (USA)
E. Baltsavias (Switzerland)
S. El-Hakim (Canada)
T.M. Sausen (Brazil)
A. Rosenqvist (Italy)
- 2004 K. Jacobsen (Germany)
C. Heipke (Germany)
H. Mayer (Germany)
M. Sester (Germany)
G. Fangi (Italy)
M. Baltsavias (Switzerland)
K. Staenz (Canada)
- 2008 K. Jacobsen (Germany)
M. Sester (Germany)
J. Hyyppa (Finland)
V. Rodehorst (Germany)
D. Lichti (Canada)
N. Pfeifer (Austria)
M. Fras (Slovenia)
Z. Jixian (China)
P. Boccardo (Italy)
A. Budge (USA)
- 2012 A. Habib (Canada)
C. Tao (UK)
F. Rottensteiner (Germany)
J. Jiang (China)
F. Remondino (Italy)
M. Baltsavias (Switzerland)
U. Sörgel (Germany)
A. Budge (USA)

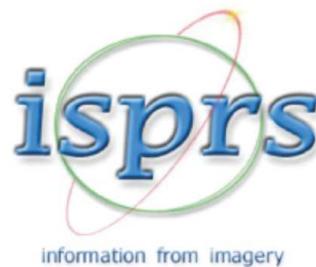
Honorable Mentions for Distinguished Members of Technical Commissions

- 1996 P. Patias (Greece)
J. Labonte (Canada)
I. Colomina (Spain)
R. Tateishi (Japan)
M. Shortis (Australia)
K. Cho (Japan)
G. Guyot (France)

CATCON Awards

- 1996 Gold J. Hohle (Denmark)
Silver N.D. Duong (Vietnam)
Bronze G. Jianya (China)
RADARSAT International (Canada)
- 2000 Gold P. Grussenmeyer (France)
P. Drap (France)
Silver Q. Zhou (China)
J. Hohle (Denmark)
- 2004 Gold J. Haig (Germany)
Silver M. Fluehler (Switzerland)
Bronze S. Sharma (India)
- 2008 Gold R. Kaden (Germany)

	Silver	S. Biswas (India)		Y. Zhou (USA)
	Bronze	B. Maathuis (The Netherlands)		G. Danuser (Switzerland)
2012	Gold	M.P. Imhof (Australia)		C. Tao (Canada)
		M.T. Cox (Australia)		X. Yang (USA)
		D.W. Harvey (Australia)	2000	B. Ameri (Germany)
		G.E. Heemskerk (Australia)		A. Brunn (Germany)
		C.J. Pettit (Australia)		M. Honikel (Switzerland)
	Silver	D. Gonzalez-Aguilera (Spain)		J. Li (Canada)
		D. Guerrero (Spain)		S. Priya (Japan)
		D. Hernandez-Lopez (Spain)		J. Schiewe (Germany)
		P. Rodriguez-Gonzalvez (Spain)		G. Zalmanson (USA)
		M. Pierrot (Spain)	2004	D. Akca (Switzerland)
		J. Fernandez-Hernandez (Spain)		P.-H. Hsu (China Taipei)
	Bronze	Aguiar, R.A. (Brazil)		A. Wendt (Germany)
		Brito, J.L.N.S. (Brazil)		T. Ai (China)
		Badolato, I.S. Bernardo (Brazil)		A. Forberg (Germany)
		Filho, O. Coelho (Brazil)		C. Ressler (Austria)
		Filho, L.C.T. (Brazil)		D. D. Lichti (Australia)
		Pupin, P.A.B. (Brazil)		M. Crosetto (Spain)
		Reolon, P.F. (Brazil)	2008	M. Blazquez (Spain)
		Ribeiro, J. (Brazil)		M. Kokla (Greece)
		Ribeiro, J.A. (Brazil)		M. Deng, (Hong Kong, China)
		Silveira, F.J.C. (Brazil)		S. O. Elberink (The Netherlands)
		Silveira, M.T. (Brazil)		P. Xiao (China)
				D. Belton (Australia)
				F. Dell'Endice (Switzerland)
				L.-q. Zhang (China)
				Y. Li (China)
			2012	M. Mohammadi (Germany)
				R. Tang (Germany)
				S. Hirose (Japan)
				G. J. P Perez (Philippines)
				J. Avbelj (Germany)
				X. Meng (China)
Young Authors Awards				
1996		X. Yuan (China)		
		N. El-Sheimy (Canada)		
		W. Cho (USA)		
		R.E. Fayek (Canada)		
		J.A. Shufelt (USA)		
		C. Pohl (The Netherlands)		



Melbourne, Australia
August 2012