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ISPRS Awards 2016

ISPRS Honorary Member

Orhan Altan (Turkey). 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 **Orhan Altan** (Turkey) for election as Honorary Members of ISPRS.



Orhan Altan is nominated for Honorary Membership of ISPRS in recognition of his long and distinguished service to ISPRS and its aims. Orhan Altan first made his mark on ISPRS as Congress Director in 2004 and has since held many roles and responsibilities within the Society including President from 2008-

2012. The year 2010 was the centennial anniversary of ISPRS and Orhan Altan played a major role in organising the celebration of this event.

Orhan Altan has introduced a number of important initiatives into ISPRS including the establishment of the Student Consortium which laid the basis for attracting more young scientists into the society; he was instrumental in setting up an agreement to have the ISPRS proceedings published in a professional way and has thus provided the necessary quality of these proceedings to be included into major indexing databases such as the Web of Science and SCOPUS; he has worked with the Joint Board of Geospatial Societies (JBGIS) and the UN Office of Outer Space Affairs to produce booklets on the value of geospatial information for disaster management.

Orhan Altan has represented ISPRS on many international bodies including the International Council for Science (ICSU) and has served on the Executive board of ICSU which has raised the recognition and standing of ISPRS internationally.

Orhan Altan's contribution has been not only as an officer of the Society, he has also made a significant research contribution to ISPRS Commissions and Working Groups throughout his career, which has covered major developments in both photogrammetry and remote sensing.

Outside of ISPRS, Orhan Altan has had a distinguished academic career as a professor of photogrammetry at

the Istanbul Technical University and has an extensive list of refereed publications and conference papers. Orhan Altan is fluent in English and German, as well as Turkish and this has enabled him to build bridges across Europe and Asia.

His contribution to the development and long term sustainability of ISPRS and his distinguished academic achievements combined with his diplomacy and charm, make Orhan Altan a very deserving candidate for election as an ISPRS Honorary Member.

ISPRS Fellowships

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.

Alain Baudoin (France)



Educated at École Polytechnique (1966-1969) and at the École Nationale des Sciences Géographiques (ENSG, 1969-1971) Alain Baudoin was a Geographical Engineer serving on the French Mapping Agency (IGN, 1971-1989) then on the French Space Agency (CNES, 1989-2005) and

lastly on the French Ministry of Environment and Sustainable Development (CGEDD, 2006-2010).

Since 1972 he has been involved in research and development of remote sensing applications, using either airborne sensors or satellite imagery. From 1978 to 1985 he was the IGN Spot project manager, ensuring that the SPOT satellite, with its stereoscopic capabilities, could be used for mapping purposes. When joining CNES he participated, as "Mission Manager", then "Program Manager" to CNES Earth Observation programs, especially for SPOT 5 and Pléiades. Parallel to these activities Alain Baudoin was a teacher on image processing at ENSG.

Since 1980, he has been involved in ISPRS activities, participating at all Congress from Hamburg to Melbourne. During the 1980 to 1984 period, he was the Secretary of Commission VII, before acting as President of Commission I from 2004 to 2008. He was also Chairman of the "Mapping from Space" Working Group (1984-1988) and after the launch of SPOT-5, in 2002, he proposed to ISPRS, a cooperation with CNES for assessing the quality and accuracy of DEM derived from the new HRS instrument. Results were presented at the Istanbul Congress in 2004.

Alain Baudoin has been a member of the French Society of Photogrammetry and Remote Sensing (SFPT) since 1972 and was its General Secretary from 1985 to 1993. At the European level he was the French delegate of EuroSDR (1993-1999).

Before his retirement in 2010 Alain Baudoin contributed to elaborate the Space Applications Plan of the French Ministry of Environment and Sustainable Development, adopted in 2012 at governmental level.

Jiang Jie (China)



Jiang Jie received her B.Sc. and M.Sc. degrees in applied geophysics from the Changchun Geology University, China, in 1985 and 1988, respectively. In 2000 she received her Ph.D. in surveying engineering from China University of Mining and Technology (Beijing). She subsequently worked as a GIS specialist in the Municipal Urban Planning and Management Information Center of Changzhou during 1989 to 1999, and took charge of the establishment of Changzhou urban geodatabase and application system. She joined the National Geomatics Center of China in the end of 1999 and is currently chief engineer and director of the Department of Geo-information Service Platform. She was responsible for development of the national spatial database for navigation during 2000-2006. She took charge of establishing the national spatial database for e-government during 2006-2008.

Since 2008, she has taken the leading position for construction the national geo-information service platform "MapWorld". The platform has integrated distributed datasets from national, provincial and municipal agencies and made them easy access for users via internet and intranet.

She was the secretary of ISPRS WG IV/3 during 1998-2000, secretary of ISPRS Commission II from 2000-2004, chair of ISPRS WG IV/1 from 2004-2012, a member of the International Scientific Advisory Committee of ISPRS from 2008-2012, president of ISPRS TC IV from 2012-2016. She was Executive Vice Chair of the Scientific Program Committee of the ISPRS 2008 Congress.

She received the Eduard Doležal Award at the ISPRS 2004 Congress, the President's Citation at the 2012 Congress. She is the chair of WG 3 of the Regional Committee of United Nations Global Geospatial Information Management for Asia and the Pacific, and chair of the Technical Commission on Geo-information Service in China GIS Association. She has published more than 80 papers.

Franz Leberl (Austria)



Franz Leberl was born in Germany in 1945 and from the age of 2, has lived in Austria. He graduated high school in Graz, in 1963. In 1967, he received his Diplom in engineering from the Vienna University of Technology, and his Dr. technicae in 1972. In 1976, he received his Habilitation at the

Graz University of Technology.

Franz worked as a researcher and teacher from 1969-1974, at the International Institute for Geo-Information and Earth Sciences (ITC) in Delft, and later in Enschede, Netherlands. From 1974-76, he was a research associate at NASA's Jet Propulsion Laboratory (Pasadena, CA). His first professorship, in photogrammetry (1976-1984) and his second, in computer science (1992-2013), were both at the Graz University of Technology, Austria. He was the founder of the Institute for Digital Image Processing and Graphics at Joanneum Research, 1980, and of the Institute for Computer Graphics & Vision at Graz University of Technology in 1992. Since 2013 he is Professor emeritus. Under a leave of absence from Graz University, he served as CEO of the Austrian Institute of Technology, then Austrian Research Centers, Vienna, Austria, from 1996-1998.

Franz Leberl was the founder of Vexcel Corporation [1985, Colorado] and of Vexcel Imaging GmbH [1993, Graz, Austria]. He withdrew from business with the 2006-sale of Vexcel to Microsoft and worked at Microsoft as Director of Virtual Earth and Bing-Maps evangelist from 2006-2007.

He has 377 publications and 15 patents, and has served as 1st doctoral referee to 48 graduates. His honours include IEEE-Fellow 1996; Grand Decoration of Honour in Silver for Services to the Republic of Austria [2006]; Outstanding Technical Achievement Award from the American Society of Photogrammetry and Remote Sensing [2012]; Brock Gold Medal from the International Society for Photogrammetry and Remote Sensing [2012]; Friedrich-Hopfner Gold Medal from the Austrian Geodetic Commission [2014]; Honorary Senator of the University of Ljubljana, Slovenia [2015].

Petros Patias (Greece)

Petros Patias is a Professor, Director of Laboratory of



Photogrammetry & Remote Sensing and ex-chairman at the School of Rural and Surveying Engineering (2003-2007), The Aristotle University of Thessaloniki (AUTH), board member of the Department of Urban Planning, AUTH (2004-2012) and Vice Rector at the University of Western Mace-

donia (2010-2015), Greece. He received a Dipl.-Ing. degree (1981) from The Aristotle University and his M.Sc. (1985) and Ph.D. (1987) both from the Dept. of Geodetic Science and Surveying, The Ohio State University, USA.

Petros Patias has a long history in ISPRS activities:

1992-2000: Chairman of the WG I/2 and WG V/5

1996: Recipient of President's Honorary Citation

2000-2004: President of Commission V

2004-2008: Chairman of the Financial Commission

2008-2012: Member of the Fellowships Committee and Co-chair of WG VI/6

In addition, he has been:

1992-1996: President of the Hellenic Society for Photogrammetry and Remote Sensing

1998-2010: Member of the Executive Board of the International Committee for Architectural Photogrammetry (CIPA).

2003-2007: President of CIPA

2013-for life: Honorary President of CIPA

He was also visiting professor at various European universities (TU Delft, ETH Zurich, Universidad del País Vasco), Editor-in-Chief of the "South-Eastern European Journal of Earth Observation and Geomatics" e-Journal, scientific reviewer to 43 Journals, scientific responsible, principal researcher and member of research group to a total of 78 research projects funded by European or national organizations.

His published work includes 6 books, 9 chapters in 4 different scientific books, in English language and 203 papers in journals and convention proceedings.

Ammatzia Peled (Israel)



Ammatzia Peled is a Professor for GIS&RS and the Director of the Center for Spatial Information Systems Research (CSISR) at the University of Haifa, Israel.

Ammatzia served as President of ISPRS Commission VIII on "Remote Sensing Applications and Policies" (2004-2008) and served on ISPRS Council as the Treasurer (2000-2004) and 2nd Vice president (2008-2012). In addition, he served for two years (2004-2006) as a Member of the TIF Board of trustees. He served as co-chair and chair of related working groups in ISPRS Commissions IV, II and VIII.

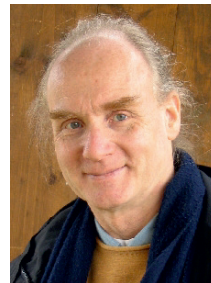
Also affiliated with the International Cartographic Association (ICA), he was a member and chair of ICA working groups and also the Chair of ICA Commission on "Incremental Updating and Versioning of Spatial Data Bases" (2003-2007).

At a National level, Ammatzia had a major role in the decision taken to remap Israel and the establishment & updating of the National Spatial Data Base in Israel. This project was launched, under his supervision, at the Survey of Israel, already in 1991 and it serves as the base for all e-Gov projects in the country.

Author of over 160 publications in Journals and proceedings papers, and books with over 260 technical reports, organizer of over 60 sessions and workshops, Ammatzia is interested in GIS, Remote Sensing, Digital Cartography and Mapping, focusing mainly in automatic Change Detection and Automatic Updating of Core Spatial Data Bases and issues of National GIS maintenance. Lately he is involved in projects dealing with autonomous spatial decision making.

In 2010, Ammatzia Peled was awarded the Eduard K. Tsiolkovsky 150 Years Memorial GOLD Medal by the Russian Academy for Cosmonautics for: "Outstanding contribution to Cosmonautics". In 2013, he was awarded as a Professor Honoris Causa by the Siberia State Academy for Geodesy & Cartography, Novosibirsk.

The Brock Gold Medal



The 2016 awardee is **Wolfgang Förstner**, for his outstanding scientific achievements in the fields of photogrammetry and computer vision. He is an internationally leading expert in photogrammetry, computer vision, pattern recognition and machine learning.

After obtaining a degree in geodesy he started his career at the Institute for Photogrammetry, University of Stuttgart. At this point of time, the institute, headed by Prof. Ackermann, was a renowned international centre for photogrammetry, in particular in aerial triangulation. In his dissertation, which he completed in 1976, Förstner concentrated on blunder detection in photogrammetric blocks; his results still prevail.

Förstner then devoted his research to the problem of image matching which was highly topical with the first-time availability of digital images. His work was pioneer in digital photogrammetry world-wide. Papers on Least Squares Matching presented at the 1984 ISPRS Congress and on an Interest-Operator, later named the Förstner Operator, at the 1986 ISPRS Symposium are, to this day, recognized as groundbreaking. Almost all systems, which have proven themselves in the practical world, are based on either LSM, the Förstner-Operator or variants thereof. After his appointment to the professorship of photogrammetry at Bonn University in 1990 Förstner became interested also in pattern recognition and computer vision. Work on building reconstruction from aerial images formed his scientific focus

for the following years resulting in many scientific publications but also in the commercial program system inJect.

Many other areas of interest of Wolfgang Förstner and many more of his achievements could be mentioned. Suffice it to say that throughout his exemplary career of nearly 40 years as a researcher, inventor, innovator and educator, he has made exceptionally significant scientific contributions in many areas of Information from Imagery and mentored generations of mapping scientists and engineers. Although now formally retired since 2012, he continues his scientific activities.

The Otto von Gruber Award



Wai Yeung Yan was born 1980 in Hong Kong. He received his B.Sc. (Hons) in Surveying and Geoinformatics at Hong Kong Polytechnic University in 2002 and M.Sc. in Business Information Technology at Middlesex University, London, in 2006. He later on moved to Toronto, Canada to pursue his

Ph.D. in the Department of Civil Engineering, Ryerson University in 2008. With his exceptional academic and research achievements, he was presented with the prestigious Governor's General Academic Gold Medal during his graduation in 2012. He is currently a postdoctoral fellow at Ryerson, and continues to carries on research in LiDAR remote sensing.

Wai Yeung Yan has proposed and developed radiometric correction and normalization models to improve the quality of airborne LiDAR intensity data. His models consider various system and environmental induced distortions, and adjust the radiometric misalignment found in the overlapping LiDAR data strips. His proposed algorithms can significantly improve the signal-to-noise ratio and reduce striping noises when mosaicking multiple LiDAR data strips. He has also demonstrated how the corrected and normalized LiDAR intensity data can aid in improving the classification accuracy in different land cover scenarios.

His contribution, being interdisciplinary and of practical relevance, has laid a foundation for the next generation global land cover mapping, and can be seen as an essential pre-processing step prior to LiDAR data classification.

The series of papers for which Wai Yeung Yan received the award is given here:

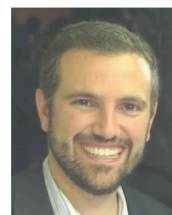
Yan, W.Y., Shaker, A., Habib, A., Kersting, A.P. 2012. Improving classification accuracy of airborne LiDAR intensity data by geometric calibration and radiometric correction. ISPRS J. Ph&RS 67, 35-44.

Yan, W.Y., Shaker, A. 2014. Radiometric correction and normalization of airborne LiDAR intensity data for improving land cover classification. IEEE Transactions on Geoscience and Remote Sensing, 52(2), 7658-7673.

Yan, W.Y., Shaker, A. 2015. Radiometric normalization of overlapping LiDAR intensity data for re-duction of line striping noise. Int. J. Dig. Earth. Published: Nov. 26, 2015. Yan, W.Y., Shaker, A., El-Ashmawy, N. 2015. Urban and cover classification using airborne LiDAR data: a review. Rem. Sens. of Environment, 158, 295-310. Yan, W.Y., Morsy, S., Shaker, A., Tulloch, M. 2015. Automatic extraction of highway light poles and towers from mobile LiDAR data. Optics & Laser Technology. Published: Sept. 26, 2015.

The U.V. Helava Award

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.



Devis Tuia
Switzerland



Rémi Flamary
France



Nicolas Courty
France

A five-member jury, comprising experts of high scientific standing, whose expertise covers the main topics included in the scope of the Journal, evaluates the papers.. For each year of the four-year evaluation period, the Best Paper was selected and has been announced in the ISPRS Journal, ISPRS eBulletin, and on the websites of ISPRS and Elsevier. The paper receiving the Helava Award was selected from these four papers. The 2012-2015 U.V. Helava Award is presented to "Multiclass feature learning for hyperspectral image classification: Sparse and hierarchical solutions" by **Devis Tuia, Rémi Flamary** and **Nicolas Courty**, published in vol. 105, July 2015, pp. 272-285.

Jury's rationale for the paper selection:

The winning paper addresses the problem of high dimensionality in hyperspectral image classification. Presenting well the shortcomings of existing approaches, the authors solve the problem of filter bank selection by choosing only those that contribute to improving land cover classification. Their work features a number of innovations including the use of multi-class logistic regression, group-lasso regularization that allows information sharing between thematic classes and automatic filter selection. Their new approach was tested thoroughly on both agricultural and urban scenes. The Jury was impressed by the authors' innovative methodology, finding the performance-based feature selection technique to be very novel yet still tractable. They felt this well-written contribution represents a genuine scientific advance in hyperspectral image classification and, therefore, very deserving of the U.V. Helava Award for 2012-2015.

The Awardees of the three next-best papers during 2012-2015 are

For 2012: "**CityGML – Interoperable semantic 3D city models**"

by Gerhard Gröger, and Lutz Plümer

Institute for Geodesy and Geoinformation, University of Bonn, Germany

For 2013: "**Urban accessibility diagnosis from mobile laser scanning data**"

by Andrés Serna and Beatriz Marcotegui

MINES ParisTech, CMM – Center for Mathematical Morphology, Fontainebleau, France

For 2014: "**Indoor scene reconstruction using feature sensitive primitive extraction and graph-cut**"

by Sven Oesau, Florent Lafarge and Pierre Alliez

Inria Sophia Antipolis – Méditerranée, Sophia Antipolis, France

The Samuel Gamble Award

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 recipient of the Award is **Naser El Sheimy** in recognition of his role as a leading international researcher in Geomatics and Mobile Mapping.



Naser El Sheimy is Professor and former Head of the Department of Geomatics Engineering, the University of Calgary. He held a Tier-I Canada Research Chair (CRC) in Geomatics Multi-Sensor Systems and is the scientific director of TECTERRA Centre of Excellence for Commercialization and Research. His research expertise includes Geomatics multi-sensor systems, GPS/INS integration, and mobile mapping systems.

Naser El-Sheimy published two books, 6 book chapters and over 450 papers in academic journals, conference and workshop proceedings, in which he has received over 30 national and international paper awards. He supervised and graduated over 65 Masters and Ph.D. students. He is the recipient of many national and international awards including the ASTech "Leadership in Alberta Technology" Award the Association of Professional Engineers, Geologists, and Geophysicists of Alberta (APEGGA) Educational Excellence.

From 2008-2012, El-Sheimy was the president of Commission I on "Sensors and Platforms" of ISPRS. He organized and participated in organizing many national and international conferences and chaired many conferences such as the USA Institute of Navigation Global Navigation Satellite Systems (GNSS) and Mobile Mapping Symposium.

Naser El-Sheimy is currently a member of the Editorial Board of the Journal of Survey Review, the Journal of Applied Geodesy, the MDPI Journal on Sensors and on Coordinates. He served as a member of the Alberta Geomatics Group Board of Directors, Geoide NCE Board of Directors and chaired many international working groups. He commercialized a number of multi-sensor systems technologies through the University of Calgary Commercialization office and is the founder of three successful companies on sensors and platforms for mapping and navigation applications.

The Willem Schermerhorn Award

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 **Uwe Stilla** for organising extremely worthwhile and successful scientific meetings of a very high level and in particular the PIA workshop series.

Uwe Stilla was born in Cologne, Germany, in 1957. He received the Diploma (Dipl.-Ing.) degree in electrical engineering from University of Paderborn, Germany, the Diploma (Dipl.-Ing.) in biomedical engineering and the Ph.D. (Doctor of Engineering) degree in pattern

recognition from the University of Karlsruhe, Germany, in 1980, 1987, and 1993, respectively. From 1990 to 2004, he was with the Research Institute of Optronics and Pattern Recognition (FGAN-FOM), Ettlingen, Germany.

Since 2004, he is Professor with the Technische Universität München, Germany, and the Head of the Department of Photogrammetry and Remote Sensing. He was the Vice Dean of the Faculty of Civil, Geo, and Environmental Engineering and is currently the Dean of Studies of the Bachelor's and Master's Programs Geodesy and Geoinformation, Earth Oriented Space Science and Technology (ESPACE) and Cartography. His research interests include image analysis in the field of photogrammetry and remote sensing. The publication list of Uwe Stilla shows more than 350 entries.

Uwe Stilla is the Chair of the ISPRS Working Group III/VII "Pattern Analysis in Remote Sensing", is a Principal Investigator of the International Graduate School of Science and Engineering (IGSSE), the Vice President of the German Society of Photogrammetry, Remote Sensing and Geoinformation (DGPF), a member of the Scientific Board of German Commission of Geodesy (DGK), and a member of Commission for Geodesy and Glaciology (KEG) of the Bavarian Academy of Science and Humanities, Munich, Germany. He has been the organizer and the chair of many ISPRS and IEEE conferences and events.

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

The Schwidefsky Medal

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 **Charles K. Toth** for his significant contributions to the field of photogrammetric theory and practice in the last three decades and **Clément Mallet** for his many contributions to photogrammetry and remote sensing as the editor of the *Revue Française de Photogrammétrie et Télédétection* and as Program Chair for the Geospatial Week 2015 in La Grande Motte.

Charles K. Toth is a Research Professor in the Department of Civil, Environmental and Geodetic Engineering, at The Ohio State University (OSU). He received a M.Sc. in Electrical Engineering and a Ph.D. in Electrical Engineering and Geo-Information Sciences from the Technical University of Budapest, Hungary.



His research interest and expertise cover broad areas of spatial information sciences and systems, including photogrammetry, multi-sensor geospatial data acquisition systems, LiDAR, high-resolution imaging, surface extraction, modelling, integrating and calibrating multi-sensor systems, georeferencing and navigation, 2D/3D signal processing, and mobile mapping technologies.

He has published over 300 peer-reviewed journal and proceedings papers, and is the recipient of numerous awards, including the 2009 APSRS Photogrammetric Award and the United States Geospatial Intelligence Foundation (USGIF) Academic Achievement Award 2015. Acknowledged internationally for his visionary contributions to mobile mapping, he was a key architect of the concept development, and conducted significant research in areas of sensor georeferencing and digital imaging technologies. He is credited with the introduction of the term "direct and indirect georeferencing" in the photogrammetric community.

He is very devoted to education and mentoring the next generation of the photogrammetric professionals, and has been a major contributor to annual Summer Schools on mobile mapping held internationally.

Charles is highly respected across the international mapping community and has held many senior leadership positions in national and international societies. He is currently President of the American Society of Photogrammetry and Remote Sensing, and served as the ISPRS Commission I President from 2012 to 2016.



Clément Mallet is a permanent researcher at the French National Institute of Geographic and Forest Information (IGN) since 2005, where he is responsible for the research team on scene interpretation and reconstruction, with a focus on land-cover mapping. He received the Master of engineering degree from École Nationale des Sciences Géographiques, France (2005), the M.Sc. degree in physics in remote sensing from Université Paris 6, France (2005), and the Ph.D. degree in image and signal processing from Telecom ParisTech, France (2010), on full-waveform lidar data processing.

Clément served as Technical Commission III secretary (2008-2012), Chair of the ISPRS Working Group III/3 (Image Sequence Analysis, 2012-2016) and Program Chair of ISPRS Geospatial Week 2015. He co-organised ISPRS workshops in various conferences since 2010 and will be technical co-chair of JURSE 2017. He served as the Editor-in-Chief for the French Journal of Photogrammetry and Remote Sensing (RFPT) between 2011 and 2015. He now

serves in the Editorial Board of RFPT, Photogrammetric Engineering & Remote Sensing, and in the Editorial Advisory Board of the ISPRS Journal of Photogrammetry and Remote Sensing.

The Eduard Doležal Award

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 **P.V. Radhadevi**, India.



The Eduard Doležal Award is given to P.V. Radhadevi for her sustainable work on mapping topography and land cover from high resolution satellite imagery. Her work impressively reaches from sensor modelling and calibration to 3D reconstruction, always in consideration of practical applications.

P.V. Radhadevi is a senior scientist at the Advanced Data Processing Research Institute (ADRIN), Department of Space (Government of India), where she heads the Digital Mapping Division. P.V. Radhadevi joined ADRIN in 1989.

She was a pioneer in conceptualizing satellite imaging geometries and using satellite photogrammetry as a prominent tool for mapping. Her contribution to the Orbit attitude modelling with a single GCP was a breakthrough. This innovative idea made value addition in satellite imagery cost-effective, which had a big impact on product generation practices. She proved many new concepts, such as full pass image rectification, combined CCD adjustment, geo-integration of sensors, tied-camera approach, multi-sensor bundle block adjustment etc.

The bundle block adjustment package designed by her, which can handle hundreds of heterogeneous satellite/sensor images simultaneously, delivers end-to-end solution with complete automation. In-flight calibration of sensors is another area of her interest.

She has over 40 technical publications in reputed journals, and is a recipient of many awards including the ISCA Young Scientist Award (1989), President of India Cash Award (1989) from ISTAM, ASI Space Gold Medal (2000), ASI Woman Scientist Award (2009), ISRO Team Award (2009 & 2012), etc. In the year 2009, she was selected for the DLR-DAAD senior research fellowship. She was an Invited Speaker for IEEE-IGARSS conference in 2012.

P.V. Radhadevi has been actively involved, for the last 27 years, in the area of satellite photogrammetry and has been instrumental in bringing out the potential of Cartosat series of satellites for large scale mapping in India.

The Wang Zhizuo Award

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 **Andrew Hudson-Smith**, United Kingdom.



Andrew Hudson-Smith is Professor and Director of the Centre for Advanced Spatial Analysis (CASA) at University College London. Andy holds a Chair in Digital Urban Systems and is Editor-in-Chief of Future Internet Journal; he is also an elected Fellow of the Royal Society of Arts, a member of the

Greater London Authority Smart London Board and Course Founder of the M.Res. in Advanced Spatial Analysis and Visualisation at University College London.

Andy is also course founder of the MSc in Smart Cities and Urban Analytics and the M.Res. in Smart Cities at CASA.

He oversees 20 research associate staff, is directly responsible for 7 lecturing staff, 2 Professors and 12 Ph.D. students. Total personal grant income from 2009 exceeds £15.5 million with projects across multiple sectors and disciplines. He is also a member of the All Party Parliamentary Group on Smart Cities.

With a focus on key research around smart cities, smart spaces, 3D visualisation, digital communication and the Internet of Things, his work has featured widely in the media including, Sky Television, The New York Times, The Guardian and most recently, The One Show, Channel 4 News, New Scientist, Wired, ABC Australia, The Japan Times, BBC Radio 4 and BBC Radio 5.

The Karl Kraus Medal

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 **Ian Dowman**, **Karsten Jacobsen**, **Gottfried Konecny** and **Rainer Sandau** for their textbook High Resolution Optical Satellite Imaging.

Ian Dowman



From 1964 to 1967, Ian Dowman was employed as Photogrammetrist at the Hydroelectric Commission of Tasmania, Australia, and from 1967 to 1969, he worked as technical manager of Mapmakers, in Sydney. He then moved to London where he was Lecturer, Reader and Professor, at the University College London from

1970 to 2009.

In 1981, Ian received his Ph.D. at the University of London, and in 1986 he became a Fellow of the Royal Institution of Chartered Surveyors (FRICS). From 1997 to 1999 he was Dean of Engineering at the University College London.

From 1996 to 2000 Ian Dowman was President of ISPRS Commission II, and from 2000-2012 ISPRS Council member and ISPRS President. Since 2012, he is an Honorary Member of the ISPRS.

Ian Dowman is Emeritus Professor of Photogrammetry and Remote Sensing, University College London, since 2009.

Karsten Jacobsen



In 1971, Karsten Jacobsen received his diploma in Surveying Engineering, and was employed at the University of Hannover, Institute of Photogrammetry and Geoinformation, from 1974. In 2009 Karsten retired as Academic Director, but he is still active in the field.

His doctor thesis was on bundle block adjustment, with his major topics of research in numerical photogrammetry, especially orientation and calibration of aerial and space imagery, DEM generation and analysis, and mapping with aerial and space images. He is author of the program system BLUH.

He has headed cooperation projects and given technical courses in several countries, and has more than 300 publications.

Karsten Jacobsen was Co-chair of WG I/4 "Geometric and Radiometric Modelling of Optical Spaceborne Sensors", Co-chair of EARSeL Special Interest Group "3D-Remote Sensing", Co-chair of the Working Group "Sensors and Platforms" of the German Society of Photogrammetry and Remote Sensing and is an Honorary member of EARSeL.

Gottfried Konecny

Educated as Surveying Engineer at the Technical University of Munich, Germany, Gottfried Konecny continued his career as a Fulbright scholar at The Ohio State University from 1954 to 1956. In 1959, he received his doctor-



ate at the Technical University Munich, and was employed by University of New Brunswick, Canada, where he launched the first English language program in Surveying Engineering. In 1971, he accepted a professorship at the University of Hannover, in Germany. In 1975, Konecny made the proposal to DLR and ESA to launch

a Zeiss Metric Camera on the First European Spacelab Mission. From 1984 to 1988 he was President of ISPRS and from 1993 to 1997 Chairman of EARSeL.

Gottfried Konecny is author of several books: on Photogrammetry 1984, in German, and on Geoinformation 2003 and 2014.

He has four honorary doctorates and about 300 publications, and is Emeritus Professor since 1998.

Rainer Sandau



Retired from the German Aerospace Center (DLR), Rainer Sandau currently acts as adjunct Professor at Baylor University, Texas, USA, and Director of Satellites and Space Applications at the International Academy of Astronautics (IAA). During his career he held various positions, including Deputy Director of the

Institute of Space Research in Berlin, Germany, and Director R&D of LH Systems.

He has over 30 years of experience in airborne and spaceborne activities and has led and been involved in instrumentations of four space missions to Venus, Mars and Earth. His stereo camera, WAOSS (Wide-Angle Optoelectronic Stereo Scanner), developed for the Russian Mars 96 mission, also flies on DLR's micro satellite BIRD and was also used as the basis for the technology transfer to develop Leica's ADS 40. He has chaired the ISPRS International Advisory Committee (IPAC) and has represented ISPRS at the UN COPUOS.

The Frederick J. Doyle Award

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 Frederick J. Doyle Award 2016 goes to **Wolfgang Wagner**, TU Vienna, for his outstanding scientific contributions in active remote sensing, combined with his strong leadership role in science management, univer-



sity administration and in international organisations. Wolfgang Wagner was born in 1969 in Wels, Austria.

After studies in Physics, at TU Vienna, he received a Ph.D. degree in remote sensing in 1999. Following a short period at DLR, Germany, he was appointed to a professorship of remote sensing at TU Vienna in 2001. From 2006-2011 he was Head of the Institute for Photogrammetry before moving to his current position as Department Head.

Wolfgang Wagner is one of the leading scientists in physical modelling and geophysical parameter retrieval from remote sensing data, in particular radar and lidar measurements. He was coordinator of the Austrian Christian Doppler Laboratory for "Spatial Data from Laser Scanning and Remote Sensing" for 7 years, initiated the ESA Climate Change Initiative project on soil moisture in 2011, and serves on various advisory boards of international space projects. He was also a co-founder of the Earth Observation Data Centre for Water Resources Monitoring (EODC), acting as head of science since December 2014.

Within ISPRS, Wolfgang Wagner was President of Technical Commission VII from 2008-2012 and initiated a number of significant reforms and new activities within the society during that time, including the new open source International Journal for Geo-Information, the establishment of the ISPRS Archives and Annals as an open access series, and the establishment of management facilities for organisers of scientific meetings. Wolfgang Wagner was also instrumental in organising the 100th anniversary of ISPRS which took place in Vienna in 2010. Since 2012 he is an active member of the ISPRS Scientific Advisory Committee.

The Giuseppe Inghilleri Award

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 **Sander Oude Elberink**, The Netherlands, for his high quality and innovative research in 3D landscape modelling that has successfully been transferred to practice to serve the society.

Sander Oude Elberink graduated as Geodetic Engineer from Delft University of Technology in 2000, and finished his Ph.D. on the Acquisition of 3D Topography in March 2010. After his master research on the classification of airborne laser scanner data, he joined the Section of Photogrammetry and Remote Sensing in Delft as researcher on 3D reconstruction from line scanner imagery.

From 2001 till 2005, he worked as research consultant and project manager at the Survey Department of Rijkswaterstaat, Ministry of Infrastructure and Environment. In September 2005, Oude Elberink started his Ph.D. research on "Acquisition of 3D Topography" at the Faculty of Geo-Information Science and Earth Observation (ITC) at the University of Twente.

He received a young author's award for best papers at the ISPRS Congress in Beijing, China, in 2008. In 2009, Sander received the ITC research award for a journal paper on 3D road reconstruction, which was co-authored by George Vosselman and published in the Photogrammetric Record.

Since September 2009, Sander holds a position of assistant professor at the department of Earth Observation Science at ITC. His research interests focus on 3D modelling and information extraction from point clouds. From 2012 to 2016, Sander chaired ISPRS Working Group III-2 on Point Cloud Processing.

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 au-

thors of a high quality paper presented at the Congress.

TC	Author, Country	Paper
I	Yuanxin Ye, China	HOPC: a geometric structure similarity metric for automatic matching of multimodel remote sensing images
II	Christian Kehl, Norway	Direct image-to-geometry registration using mobile sensor data

III	Andreas Ley, Germany	Reconstructing white walls: multi-view, multi-shot 3D reconstruction of textureless surfaces
IV	Constantin-Ioan Nandra, Romania	Defining earth data batch processing tasks by means of a flexible workflow description language
V	Ana Djuricic, Austria	3D central line extraction of fossil oyster shells
VI	Raechel Bianchetti, USA	A cognitive approach to teaching a graduate level Geobia course
VII	Benson Kipkemboi Kenduiywo, Germany	Mapping crops from a sequence of TerraSAR-X images with dynamic conditional random fields
VIII	Katalin Kiss, Finland	Comparison of high and low density airborne lidar data for forest road quality assessment

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.

The 2016 recipients are:

Technical Commission I: Görres Grenzdörffer, Costas Armenakis

for their outstanding leadership of Inter-Commission Working Group, ICWG, I/Vb on "Unmanned Vehicle Systems (UVS): Sensors and Applications" and for their invaluable assistance to and support for the objectives and mission of TC I.

Technical Commission II: Monika Sester

for her overall contribution to the operation of the Commission II's activities and advancement of its scientific goals, as well as her demonstrated leadership of WG II/8 on "Mobility: Tracking, Analysis and Communication".

Technical Commission III: Michael Yang

for his effort to facilitate interaction and cross-fertilization between ISPRS and computer vision researchers.

Technical Commission IV: Sisi Zlatanova

for her meritorious contributions to the operation of ISPRS Working Group IV/7 on "3D Indoor Modelling and Navigation".

Technical Commission V: Mark Shortis

for his efforts in strengthening relationships with the metrological industrial community and for his overall contribution to the organization of scientific events related to vision metrology.

Technical Commission VI: Anjana Vyas

for her tireless efforts to support Commission VI goals and for her outstanding leadership of WG VI/2 on "E-Delivery of Education Services".

Technical Commission VII: Batuhan Osmanoglu

for his meritorious contributions to the Technical Commission VII's activities and its scientific goals, and in particular to WG VII/7 on "Synergy in Radar and Lidar".

Technical Commission VIII: Fazlay Faruque

for his significant contributions to Technical Commission VIII and invaluable leadership of WG VIII/2 on "Health".

CATCON Award

At the Congress, the CATCON Prizes (1996), 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.

The seventh **CATCON7** was organized at the XXIII ISPRS Congress, Prague, Czech Republic, on **July 16, 2016**.

The main objective of the contest is to promote the development and dissemination of effective, educational and user-friendly –

- multimedia tutorials
- simulations and virtual environments
- information packages or data sets
- application software

designed and used specifically for computer assisted teaching in photogrammetry, remote sensing or spatial information science.

In general, the CAT tutorial, software or data set is preferred to be non-commercial and provided to users without license 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	Thomas Luhmann	Learning Photogrammetry with Interactive Software Tool PhoX
Silver CHF 2500	Jorge Luís Nunes e Silva Brito, Irving da Silva Badolato, João Araújo Ribeiro, Orlando Bernardo Filho, Rodrigo Dacome Lima, Lia de Souza e Simões Figueiredo, Luiz Carlos Teixeira Coelho Filho, Marcelo Teixeira Silveira, Francisco José da Cunha Silveira, Patricia Farias Reolon, Guilherme Lucio Abelha Mota, Rafael Alves de Aguiar, Paulo André Batista Pupin, Sarina Lustosa da Costa Santos, Jonas Ribeiro da Silva	The e-foto Software: A Free, Digital Photogrammetric Workstation for Educational Purposes
Bronze CHF 1500	Huayi Wu, Zhipeng Gui, Lan You, Kai Hu	GeoSquare: a collaborative online geospatial information sharing and geoprocessing platform for education and research

Best Poster Awards

At the Congress, a total of 16 Best Poster Papers Awards are sponsored by ISPRS. A jury for each of the eight ISPRS Commissions observes the poster presen-

tations and selects the two best Poster Papers of each Commission. The award consists of a gift and certificate from the Congress Director.

TC	Author	Paper
I	Marinus Axel Boon, Richard Greenfield, Solomon Tesfamichael	Wetland Assessment using Unmanned Aerial Vehicle (UAV) Photogrammetry
	Junhua Kang, Fei Deng, Xinwei Li	Automatic texture reconstruction of 3d city model from oblique images
II	A. Zlinszky and A. Kania	Visualization and accuracy evaluation of high-resolution fuzzy vegetation maps
	A. Suhaibah, U. Uznir, F. Anton, D. Mioc, and A. A. Rahman	3D Nearest Neighbour Search Using a Clustered Hierarchical Tree Structure
III	William Nguatem, Martin Drauschke, Helmut Mayer	Automatic Generation of Building Models With Levels of Detail 1-3
	Miloud Mezian, Bruno Vallet, Bahman Soheilian, Nicolas Paparoditis	Uncertainty Propagation for Terrestrial Mobile Laser Scanner
IV	Ferruh Yildiz, Sitki Kulur, Osman Selcuk, Mehmet Alper Yildiz	The effect of pixel size on the accuracy of orthophoto production
	Nishith Maheshwari	A semantic model to define indoor space in context of emergency evacuation

V	M. Mueller and T. Voegtle	Determination of Steering Wheel Angles during Car Alignment by Image Analysis Methods
	Jinhu Wang, Roderik Lindenbergh, Yueqian Shen, and Massimo Menenti	Coarse Point Cloud Registration by EGI Matching of Voxel Clusters
VI	Franz-Josef Behr	A Framework for an Open Source Geospatial Certification Model
	Anjillyn Mae C. Perez	RS-based water resource inventory of the Philippines: capacity building efforts for nationwide implementation
VII	Ruiqian Zhang	S-CNN Based Ship Detection from High Resolution Remote Sensing Images
	Aristides Vaiopoulos	Robust Evaluation of High Performance Pan sharpening Algorithms on Modern Satellite Imagery
VIII	M. Nishio and M. Mori	Analysis of debris flow disaster due to heavy rain by X-band MP radar data
	Cheng-Hao Lu	Applying UAS and photogrammetry to monitor the morphological changes along the beach in Penghu islands

Youth Forum Awards

The best paper at the Youth Forum is selected from the papers of the Youth Forum Technical Sessions. The Youth

Forum Best Paper award consists of a certificate and a gift sponsored by Leica Geosystems, Switzerland.

Author	Paper
Xinxin Liu, Huanfeng Shen, Qiangqiang Yuan, Liangpei Zhang, Qing Cheng	A novel removal method for dense stripes in remote sensing images

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

Author	Paper
Maarten Bassier, Maarten Vergauwen, Bjorn Van Genechten, Guido Kips	Standalone terrestrial laser scanning for efficiently capturing AEC buildings for as-built BIM

IGI Africa Ambassador Award 2016

Ingenieurgesellschaft für Interfaces mbH (IGI), Kreuztal, Germany, generously initiated the IGI Ambassador Award via The ISPRS Foundation (TIF) to be offered to young scientists in photogrammetry and laser scanning coming from regionally under-represented African countries. The award consists of 2,500 Euros, visits at IGI's Central Office, Kreuztal, Germany to obtain hands-on training and active participation at ISPRS Workshops, Conferences, and Symposia.

The first recipient of The ISPRS Foundation IGI Africa Ambassador Award for 2015-2016 was **Ms Muna**

Khamis Birra Ali, a Ph.D. Candidate in the field of Geoinformatics at the Sudan University for Science and Technology, Khartoum, Sudan. Ms Khamis Birra Ali holds a Master of Science in Computer Science and Information Technology from AlGezira University and a Bachelor of Civil Engineering from Khartoum University, Sudan. She is currently the Head of the Department of Computer Science and Information Technology and Lecturer at Comboni College for Science and Technology in Sudan. Ms Khamis Birra Ali visited IGI in Kreuztal in March 2016.

Certificates of Recognition for Excellence in Service to ISPRS during 2012 – 2016

Besides the working group officers, the Technical Commission Presidents and Council Members there are many people who collectively contribute to the activities and the success of ISPRS. At the Congress a representative number of them are honoured for their dedicated and excellent work and service for the society.

At the Prague Congress Certificates of Recognition go to:

Ian Dowman	Chair, ISAC
Gunter Schreier	Chair, IPAC
Franz Leberl	Chair, I ² AC
Lawrence Friedl	Chair, ICORSE
Andreas Georgopoulos	Chair, CIPA
Ursa Kanjir	Chair, Student Consortium
Dieter Fritsch	Chair, Board of Trustees, TIF
Marie-José Lefèvre-Fonollosa	Chair, Financial Commission
Hussein Farah	Regional Representative for Africa
Mario Hernandez	Regional Representative for South America
Nguyen Dinh Duong	Regional Representative for South-East Asia
Derek Lichti	Editor-in-Chief, ISPRS Journal of Photogrammetry and Remote Sensing
Qihao Weng	Editor-in-Chief, ISPRS Journal of Photogrammetry and Remote Sensing
Wolfgang Kainz	Editor-in-Chief, ISPRS International Journal of Geo-Information
Zhilin Li	Book Series Editor
Markus English	Web Master
Uwe Stilla	Social Media Editor
Annette Radtke	ISPRS Headquarters
Uwe Breitkopf	ISPRS Headquarters
Michael Wright	ISPRS Treasurer's Office
Dan Brooking-Coker	ISPRS Treasurer's Office
Lindsey Earley	ISPRS Treasurer's Office
Chen Chen	ISPRS Beijing Office

The ISPRS Foundation and Congress Travel Grants

The ISPRS Foundation has allocated \$US30, 000.00 for travel grants to assist students and young scientists to attend the ISPRS Congress. This support was generously matched by the Congress Host by waiving a large number of registration fees. These grants represent a major part of the philanthropic activities of the Foundation. A total of 187 applicants for the travel grants were received. Approximately 50% of the applicants have received some financial support.

The recipients for 2016 were (given are the names and the country of origin):

Pedro Marco Achanccaray Diaz	Peru
Tri Dev Acharya	Nepal
Adedayo Adeleke	Nigeria
Mayank Agrawal	India
Irene Aicardi	Italy
Felicia Akinyemi	Nigeria
Abdullah Ali	Indonesia
Fatemeh Alidoost	Iran
Tungalag Amar	Mongolia
Reuma Arav	Israel
Nagihan Aslan	Turkey
Mohammed Amine Azzaoui	Morocco
Adilson Berveglieri	Brazil
Preeti Berwal	India
Zalak Bhavsar	India
Emily Burchfield	USA
Wen Cao	China
Xi Chen	China
Paulo Costa	Brazil
Sushma Reddy Devireddy	India
Patricia Duncan	South Africa
Nguyen Dinh Duong	Vietnam
Ramji Dwivedi	India
Hussein Farah	Kenya
Pedro Martínez Fernández	Cuba
Mohsen Ghamary Asl	Iran
Sajid Ghuffar	Pakistan
Salil Goel	India
Mehmet Gündüz	Turkey
Alexander Harvey	Canada
Shiran Havivi	Israel
Mario Hernandez	Mexico
Nalani Hetti Arachchige	Sri Lanka
Sahar Hosseinian	Iran
Henry Ibitolu	Nigeria

Syed Irteza	Pakistan	Mahmudur Rahman	Bangladesh
Sivan Isaacson	Israel	Aji Rahmayudi	Indonesia
Justyna Jeziorska	Poland	P L N Raju	India
Jayren Kadamen	South Africa	Darshana Rawal	India
Sid Ali Kalem	Algeria	Caren Remillard	USA
Om Prakash Prasad Kalwar	Nepal	Haval Sadeq	Iraq
Ursa Kanjir	Slovenia	Lal Samarakoon	Thailand
Candan Eylul Kilsedar	Turkey	Suryakant Sawant	India
Cemal Özgür Kivilcim	Turkey	Roman Schultz	Ukraine
Ferah Pirlanta Köksal	Turkey	Vivek Sengar	India
Tarun Teja Kondraju	India	Margarita Skamantzari	Greece
Julia Kravchenko	Ukraine	Julian Smit	South Africa
Amit Kumar Verma	India	Vijaya Sunanda	India
Saket Kunwar	Nepal	Laxmi Thapa	Nepal
Houda Latreche	Algeria	Hasan Tonbul	Turkey
Maria Gabriela Lenzano	Argentina	Maria Vakalopoulou	Greece
Alexander Liss	Russia	Mikhail Vavulin	Russia
Hope Koketsa Malema	South Africa	Alexandru Visan	Romania
Shimrit Maman	Israel	Anjana Vyas	India
Abhishek Manandhar	Nepal	Huai Yu	China
Sina Mehrdad	Iran	Rongchun Zhang	China
Marco Minghini	Italy	Mayra Zurbarán	Colombia
Sultan Mohammed	Ethiopia		
Indranil Mondal	India		
Linda Moser	Austria		
Themban Moyo	Zimbabwe		
Shaini Naha	India		
Elnaz Neinavaz	Iran		
Yogeswaran Nithiyandam	India		
Newton Nyapwere	Zimbabwe		
Kyaw Sann Oo	Myanmar		
Genelin Ruth Pamplona-James	Philippines		
Miloš Pandžić	Serbia		
Maria Papadomanolaki	Greece		
Heema Patel	India		
Tatiana Peremitina	Russia		
Ni Made Pertiwi Jaya	Indonesia		
Christos Platias	Greece		
Gabriele Prestifilippo	Italy		
Andrei Pushkarev	Russia		
Alfiah Rizky Diana Putri	Indonesia		

White Elephants' "Kennert Torlegård Travel Grant"

A White Elephants' "Kennert Torlegård Travel Grant" Fund has been established in The ISPRS Foundation to support young people to attend ISPRS events and especially the quadrennial ISPRS Congresses. This restricted grant category will be funded by senior members of ISPRS who are members of the White Elephants group, and who wish to demonstrate their continued commitment to the aims and goals of ISPRS. It is named after the late Prof. Dr. Kennert Torlegård, a great Swedish Photogrammetrist and ISPRS President 1988-1992.

Grant Recipients 2016

Ayda Akkartal Aktaş	Turkey
Ivan Detchev	Bulgaria
Sheryl Rose Reyes	Philippines