



ISPRS  
Student  
Consortium



# ISPRS Student Consortium Newsletter

No. 1  
October 2007

Let's Come Together  
to Make The World  
Smaller and Smaller,  
While Enlarging  
and  
Powering Our  
Student Consortium  
Network!!

**JOIN US!!!**



information from imagery

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Dear Friends,

*ISPRS is an umbrella organization which has aims of achieving international cooperation in the fields of photogrammetry, remote sensing and the spatial information sciences.*

*It wishes to advance the knowledge and facilitate education all around the world with a responsibility to protect the environment and to help for build a better world.*

*Today, this promising network is composed of graduate and undergraduate students, young researchers and professionals, with a member profile from more than 30 countries and provides a platform to improve our technical knowledge and skills, gaining responsibilities and achieving leaderships. The structure is based on global, regional and local networks where we cooperate closely with the chair, secretary of the working group, as we aim for a sustainable society of ISPRS.*

*The question is simple;*

***Would you like to join and take your place as the pioneers of the next generation and share the vision of the imagery's future?***

*On the behalf of the Student Consortium coordinators and members, I would like to invite you to participate to our future of profession under ISPRS SC.*

*I also would like to thank to everyone contributed to produce this first issue of our newsletter.*

*I hope you will also find it interesting and useful.*

***Cemal Özgür KIVILCIM***  
***Student Coordinator-in-Chief***

## FOREWORDS

*During the last ISPRS Congress in Istanbul, 2004, a new working group within the Technical Commission VI was established – Promotion of the Profession to Students (WG VI/5), linked to the newly established Student Consortium (SC). Our further work is focused on stimulation to scientific and research work, and promotion of the profession to talented graduate, post-graduate students and young researchers.*

*The Student Consortium, which acts within ISPRS WG VI/5, provides a platform for international cooperation for young professionals from the field of the ISPRS and includes the organisation of student-specific events as well. A success of the two organized summer schools (the third one is planned for the next year in Nanjing in China) proved that these kind of events, organised especially for students and young professionals, should become traditional in the future. We would not have succeeded in attracting so many young researchers, professionals, students from all over the world without the engagement of active members of the local organizing committees of the Summer Schools. We express many thanks to them.*

*Furthermore, we appreciate the lecturers' efforts in preparing and giving lectures, which made the summer schools successful.*

*Publishing this SC Newsletter is a further step to provide the SC member regular information on the ISPRS related student activities.*

*Nowadays, the amount of daily produced information is enormous. Therefore, filtering this information and bringing the most important one to the target group is one of the goals of this SC Newsletter.*

*On behalf of the ISPRS WG VI/5, we would like to express our deepest gratitude to the members of the SC Newsletter Editorial Board and SC coordinators to prepare this first issue. We hope that SC members and other readers will find it beneficial and interesting.*

***Mojca K. Fras, Chair-woman WG VI/5***  
***Anka Lisec, Secretary WG VI/5***

## INTRODUCTION - WHO WE ARE?

The ISPRS Student Consortium (SC) was founded during the ISPRS Congress in July 2004 in Istanbul, when it was established under ISPRS Commission VI "Education and Outreach". The continuity of the SC was ensured by setting up an ISPRS Working Group "Promotion of the Profession to Students" that will provide a stable link between SC and ISPRS.

The main purpose of Student Consortium is to provide an important viewpoint into the work and activities of this professional international scientific society for students. It is open for all the advanced diploma students and young researchers in the ISPRS scientific fields. SC is an important link between the students from different countries, providing a good platform for cultural and information exchange.

During the first year of the SC, we have started from the basics to build up our organization in stable and flexible way. In practice, this means among other things that we have prepared a WEB site for the SC (<http://www.studentconsortium.isprs.org/>), introduced our organization internationally in many ways and also started to gather information of our members with a member questionnaire located at our WEB site. The current number of SC members is 130 from almost 30 countries all over the world, from India to United States. Especially many European countries are represented.

### ***The Mission:***

***All the advanced diploma students and young researchers doing their Master or PhD studies in ISPRS field can join along. Student Consortium will provide a platform for exchange of information and organize student-specific events either independently (e.g. summer schools) or within larger ISPRS events. The Student Consortium is an important connection between students and ISPRS's professional activities, way to get students familiar with and interested in ISPRS activities.***

"WG VI/5 offers support to the student coordinators of the Student Consortium, which acts within the framework of the WG VI/5.

The Student Consortium presents the main student group, who share the same interest in photogrammetry, remote sensing and spatial information sciences, and has been established in the framework of the ISPRS TC VI in 2004"



*Technical visit of Lesce sport airport – Flycom hanger. 2<sup>nd</sup> ISPRS SC Summer School, Ljubljana 2007.*

### **ISPRS SC structure:**

*Student Coordinator-in-Chief:* Cemal Özgür Kivılcım (Turkey)

*SC Newsletter Editorial Board:* Krzysztof Stereńczak (Poland), Editor-in-Chief  
Gregor Stavbar (Slovenia)

*SC Webmasters:* Sultan Kocaman (Slovenia)  
Gregor Stavbar (Slovenia)

*Regional Coordinators:* Europe: Krzysztof Stereńczak (Poland)

Africa: Mohammed Elmontsar Eltahir (Sudan)



## ISPRS FUTURE EVENTS:

- 5-7 Nov 2007 - Joint International Symposium and Exhibition on Geoinformation and International Symposium on GPS/GNSS 2007  
<http://www.isg-gnss07.com>
- 8-10 Nov 2007 - WG II/5 4th International Symposium on LBS & TeleCartography  
[www.lsgi.polyu.edu.hk/LBS2007/](http://www.lsgi.polyu.edu.hk/LBS2007/)
- 10-12 Nov 2007 - WG II/4 Training Workshop on Spatial Planning & Decision Support System
- 12-16 Nov 2007 - 28th Asian Conference on Remote Sensing ACRS2007  
<http://www.macres.gov.my/acrs2007>
- 14 Nov 2007 - 18th IEEE/ISPRS/OGC GEOSS workshop "Environmental Disasters & Tsunami"  
<http://www.macres.gov.my/acrs2007>
- 15-17 Nov 2007- WG VII/7 Workshop
- 20-23 Nov 2007 - WG I/6 Workshop on Earth Observation Small Satellites for Remote Sensing Applications  
[www.eoss2007.org/workshop.asp](http://www.eoss2007.org/workshop.asp)
- 29-30 Nov 2007 - 2nd International Conference on Geospatial Semantics "GeoS 2007"  
<http://www.geosco.org/>
- 4-6 Dec 2007 - 3rd International Conference "Earth from Space - the Most Efficient Solutions"  
<http://www.transparentworld.ru/conference/>
- 4-7 Dec 2007 - Pacific Island Countries GIS/RS User Conference  
[www.lands.gov.fj/gisConference.shtml](http://www.lands.gov.fj/gisConference.shtml)
- 12-14 Dec 2007 - WG IV/8 International Workshop on 3D Geo-Information: Requirements, Acquisition, Modelling, Analysis, Visualisation "3D GeoInfo07"  
<http://www.3d-geoinfo-07.nl/>
- 17-19 Dec 2007 - Trans Asiatic GIS Society Conference on GIS "b-GIS@Asia"  
<http://www.tagsasia.org/bgisasia/>

Asia: Kyaw Sann Oo (Myanmar)

Summer School 2008 Student Coordinator: Yong Zhang (China)

SC Supporters: Jaakko Järvinen (Finland), Petek Tatli (Turkey)  
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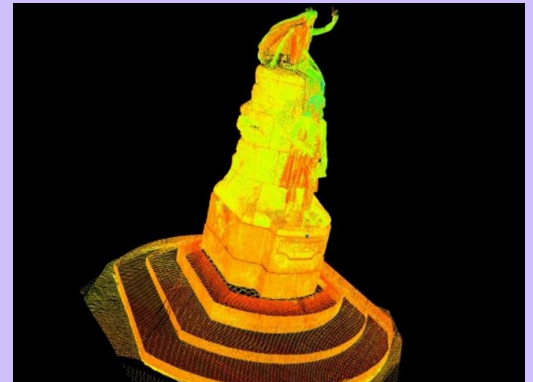
MYANMAR  
e-mail: [108007u@gs.kochi-tech.ac.jp](mailto:108007u@gs.kochi-tech.ac.jp)

For more information go to:

1. <http://www.studentconsortium.isprs.org/>
2. ORGANISATION AND FUTURE OF ISPRS STUDENT CONSORTIUM – Akkoca G. et al., 2006 ([http://www.photogrammetry.ethz.ch/~skocaman/SC/Reports/Paper\\_Akkoca\\_Tatli\\_Celik.pdf](http://www.photogrammetry.ethz.ch/~skocaman/SC/Reports/Paper_Akkoca_Tatli_Celik.pdf))

The 2<sup>nd</sup> Summer School as is a joint initiative of the ISPRS WG VI/5 (Promotion of the Profession to Students) and Student Consortium (SC) took place in Ljubljana, Slovenia, July 1-7, 2007. The topic of the Summer School was *Theory and Application of Laser Scanning*. The decision for the topic was due to the fact that the technology of laser scanning is inevitably entering the everyday surveying practice. The needs from the practice are vast and enterprises employing young professionals expect that they are well acquainted with latest development when they have completed their studies.

The Summer School was hosted by University of Ljubljana, Faculty of Civil and Geodetic Engineering. The University of Ljubljana is an institution with a very rich tradition, established in 1917, and today with over 40.000 of regular students ranks among the biggest universities in the world scale. The organisation of the Summer School was entrusted to the Faculty of Civil and Geodetic Engineering, Slovenian Geodetic Student Association (more than 20 students of geodesy were involved) and Association of Slovenian Surveyors – Section of Photogrammetry and Remote Sensing.



*Prešeren's Monument at the Prešernov trg square in Ljubljana (The 2<sup>nd</sup> ISPRS Summer School "Theory and Application of Laser Scanning" takes place in Ljubljana, Slovenia).*

The program kicked off on Monday, 2<sup>nd</sup> July, with the opening ceremony. The working group chair Mojca K. Fras welcomed the audience and gave the floor to the faculty dean prof. Bojan Majes and the ISPRS Second Vice President prof. Emmanuel Baltsavias, who was present during the complete program of the SS. In addition, the WG VI/5 chair dr. Mojca K. Fras read the letter of support, written especially for this occasion by dr. Janez Potočnik, the European Commissioner for Science and Research. The TC VI president prof. Kohei Cho was not present personally but prepared a pleasing video message that was played to the audience.



*Opening ceremony – speech of the ISPRS Second Vice President prof. Emmanuel Baltsavias.*



*Dr. Mojca K. Fras read the letter of support written by dr. Janez Potočnik.*

The program started with lecture sessions. Each session was of 1,5 hours duration, followed by a refreshment break or lunch at noon. The first three days of lectures were dedicated to the airborne laser scanning, and the last two days to terrestrial laser scanning.

All together 32 lecturing hours were performed in five days. Lectures were given in different ways, some were theoretical and practical, in a form of a tutorial (work on computers using special software) or practical exercises (outdoor measurements). The lecturers came from acknowledged international research and education institutions, having made the summer school a truly professional experience. They came from academic institutions (prof. Norbert Pfeifer from Vienna University of Technology, prof. George Vosselman from the ITC, dr. Devrim Akca from the Swiss Federal Institute of Tehnology (ETH) Zürich, Cristoph Straub from Albert-Ludwigs University Freiburge) and from the leading equipment and software providers (Leica Geosystems, INPHO, RIEGL LMS, Optech International).

A special session was dedicated to students – young authors, who wrote a paper or poster about their research work in laser scanning, and presented it to the audience. These presentations were very well prepared and there was a lively discussion from the audience.



*Practical trainings in the computer room.*



*Prof. N. Pfeifer answering questions during the break.*

In addition, participants had possibility to visit Lesce sport airport where the Slovenian enterprise Flycom has a hangar with helicopters and the newest LIDAR equipment (full-wave scanner). The company staff cordially accepted the guests and made a thorough presentation of the equipment and some of their recent projects. This was very useful exercise for many of the participants, having opportunity to see in “reality” such equipment. The way took us further to the lake of Bled, very famous and superb tourist resort.



*Tourist visit of the Adriatic region.*

The aim of the summer school was not only to give participants good knowledge and skills in the selected topic, but also to provide time for social gathering in different forms. On Monday, welcome party in the Faculty entrance hall was organized by local students who prepared a short but cheerful cultural program, domestic food and living music with trumpets and drums. On the Thursday evening, a guided tour of Ljubljana old centre was organized. The final program of the summer school finished with the

closing session on Friday.

In the evening there was a relaxed social gathering in the hostel Vič, where the Slovenian students prepared some amusing programmes, finishing with the festive cake dedicated to the successful closure of the summer school.

On Saturday, a whole day excursion was organized to the Slovenian Karst and the coast region, where participants visited the magnificent Postojna Karst cave and had a long stop in Piran, a picturesque littoral city. The evening finished with the dinner in a farm guest house with tradition and high quality wine production.



*From the left: Cemal Ö. Kivilcim, co-organiser of the 1<sup>st</sup> SS in Istanbul, Anka Lisec co-organizer of the 2<sup>nd</sup> SS in Ljubljana, Yini Jia and Yong Zhang, co-organizers of the 3<sup>rd</sup> SS in Nanjing.*

lecturers, there were some questions set during the lectures, but mostly the students took opportunity to ask particular details during the breaks.

The web page of the SS is still active ([http://www.fgg.uni-lj.si/~alisec/www/ISPRS\\_SS\\_2007/](http://www.fgg.uni-lj.si/~alisec/www/ISPRS_SS_2007/)), and there is a photo gallery published and the complete proceedings could be download (please, contact the WG VI/5 secretary for the password). See you in Nanjing, China in 2008!



*Happy participants in the front of the UL-Faculty after the summer school closing.*

*On first issue of our Newsletter we would like you to present letter written by **Dr. Janez Potočnik** – member of the European Commission to Summer School 2007 participants.*

Ladies and gentleman,  
Dear participants,

I would like to thank for inviting me to contribute to this second edition of the summer school organised by the Society for Photogrammetry and Remote sensing. Europe must invest in its youth. The young are the future, and timely and effective investment in youth is the key to making that futures prosperous, both economically and socially.

Form many years, we have recognised the importance of making young people aware of the necessity of learning about science and technology and we have therefore supported various activities in the field of science education.

Science will play an ever increasing role in the development of our societies. Therefore activities such as the organisation of this summer school on “Theory and Application of Laser Scanning” are essential for stimulating the personal development of potential future scientists and young researchers.

Indeed, proving an intensive and educational week of training activities conducted by eminent scientists is a for many young scientists and future researchers an excellent basis for developing their ideas and thus contributing in innovation in science and technology. Giving students and young researchers the opportunity to take part in training activities, such as this summer school, is key to the development of European knowledge society, and for young people it is often an important step towards an international career in science.

Moreover, the importance of practical work alongside the theory and lectures is indisputable. “Learning by doing” is a key element in the learning process and activities such as this one should therefore be encouraged and promoted. There is another important aspect we must not forget: the social fabric that binds us. Initiatives such as this also have an important social impact on those who take part – meeting and exchanging ideas with like-minded people from other parts of the world provides the basis fir future international cooperation. Bringing together people from across Europe and beyond, allows them to experienced first hand the richness of cultural diversity, which is an essential ingredient in the formulation of our common policies.

At the European Commission we cover the whole of science education: from supporting “hands-on” experience of science in primary school; activities and initiatives aimed at secondary school level and above; and a system of grant support to university level students and postdoctoral students.

Science its creation in 2005, this summer school has proved to be a great success and I am convinced this wear’s will be no exception. It gives many students young researchers the opportunity to get involved in real science and creates a basis for cooperation which will undoubtedly contribute to shaping Europe’s future.

I wish you a successful and fruitful summer school and all the best for the future.

Signed by:  
Janez Potočnik  
European Commission for science and Research.





**Interesting links:**

This time I will recommended links to different websites where you can find all kinds of GIS data:

- [http://www.cgrer.uiowa.edu/servers/servers\\_geodata.html](http://www.cgrer.uiowa.edu/servers/servers_geodata.html) - Centre for Global and Regional Environmental Research of University of Iowa.
- <http://geo.arc.nasa.gov/sge/health/links/links.html> - A large collection of NASA, USGS, as well as some other various sources pertaining to Remote Sensing and GIS Data.
- <http://www.gis.usu.edu/Geography-Department/rsgis/RSCC/v3.3/3-3.html> - Department of Geography and Earth Resources Utah State University.
- <http://pubs.usgs.gov/of/2003/of03-001/html/docs/data.htm> - U.S. Geological Survey Data Catalog.
- [http://www.econdata.net/content\\_datacollect.html](http://www.econdata.net/content_datacollect.html) - A listing of data collection tables. Economic, Demographic, Trends, Education and Census data types included. Provided by Econodata.net.
- <http://data.lib.uci.edu/ssda/datasources.html> - A large collection of assorted social science data from around the world. University of California Irvine.
- <http://sedac.ciesin.org/remotemap3.html> - This is a wide listing of Multiple Data Centre Catalogs and Search Tools from the Socioeconomic Data and Applications Centre.



**ISPRS SC EVENTS FOR YOUTH IN 2008**

The focus of the SC activities in 2008 is, due to the dimension of the event itself, set to the XXI ISPRS Congress in Beijing, China. We would like to attract your attention to the two events which are planned to be organised especially for students and young professionals:

- the 3<sup>rd</sup> Summer School (SS) in Nanjing, just before the Congress and
- the Youth Forum (YF) during the Congress.

**Not all details are yet defined, but we will subsequently give important information in the WG VI/5 and SC webpages, as well as in the next issue of the SC Newsletter.**

**3rd Summer School, Nanjing, June 27 to July 1 2008: »Acquisition, Processing and Representation of Three Dimensional Geospatial Information.**

*The trends of online 3D interactive representation of geospatial information as lead by Google Earth and Virtual Earth will attract many new students to network based 3D modelling and visualization of the world. The technologies of photogrammetry and remote sensing inevitably present a unique opportunity to such applications. For deep understanding of up-to-date 3D concepts to effectively work in the new geotechnology fields, this summer school is thus meant to upgrade and deepen the general knowledge in the technology to the targeted audience – students and young researchers. Based on the multi-source data, such as aerial and terrestrial imagery and laser scanning, as well as CAD and GIS data, automatic and interactive 3D modelling and network-based visualization will be presented: principles and methodologies, hardware and software, etc. Details of the program will be subsequently given in the 2nd announcement on ISPRS related web pages. The local organizer offered to cover travel expenses*



(direct fast night train) between Beijing and Nanjing for students attending also the Congress – so if you plan to attend the Congress, you have no additional travel expenses to come from Beijing to Nanjing and back.

**XXI ISPRS Congress, Beijing, Youth Forum, 5 July 2008**

The Congress is the biggest ISPRS event, organized every four years. To attend such an event is a valuable experience for everyone interested in the ISPRS topics. Usually, around 2500 people from all over the world visit the Congress (this number could be much exceeded in China with a great »interior« potential) with interesting lectures, tutorials (usually organized a few days before the Congress), technical exhibition, numerous social events and organized trips. Students and young professionals are warmly invited.



**Congress website:** <http://www.isprs2008-beijing.org>

For information related to the **funding assistance:**  
[http://www.isprs2008-beijing.org/financial\\_ass.htm](http://www.isprs2008-beijing.org/financial_ass.htm)

**Congress 2nd Announcement:**  
[http://www.isprs2008-beijing.org/PDF/second\\_announcement.pdf](http://www.isprs2008-beijing.org/PDF/second_announcement.pdf)

In addition to the regular program of the Congress, a one-day Youth Forum will be organized, comprising four sessions for oral presentations and one poster session, as well as one Youth Forum Panels session.



The themes of oral sessions are:

- Multi-Source and Multi-Scale Data Acquisition
- From Image to Information
- Spatio-Temporal Modeling and Representation
- Geo-Spatial Information Service and Applications

The theme of the Youth Forum Panel:

- Value Added Service of Geo-Spatial Information

For more information on each topic, please read the Congress 2nd announcement.

**The deadlines for submission of abstracts is 20 October 2007!**

Please, also consider the **Youth Forum Best Paper and Best Poster Awards which are specially dedicated to the youth** among the other awards.

In addition, a **student excursion** will be organized during the Congress.

Although not organized especially for students, you may find interesting **Tutorials, organized on 2-3 July 2008**. The registration for these tutorials is individual (if you register for the Congress, you should separately indicate to register for particular tutorial, with the additional fee).



Please, be aware that the fee for the Congress is, if **payed before 20 December 2007**, for full time students only **1.600 RMB** (Chinese currency), before 15 May 2008 1.840 RMB and after 15 May 2008 2.160 RMB (10 RMB is approx. 1 EUR).

In addition to the Congress fee, you need to cover your travel expenses to Beijing, accommodation, meals, and optional excursions and tutorials. The WG VI/5 and the SC are in discussion with the Congress Director, the ISPRS Council and the ISPRS Foundation to get as much as possible advantageous support for students (e.g. cheaper accommodation). We will announce all such information in the SC webpage as soon as something new.

Mojca K. Fras, Chair-woman WG VI/5



## In winter issue:

- **REPORTS OF THE PAST EVENTS** – 1<sup>st</sup> ISPRS SC Summer School, Istanbul, Turkey 2005.
- **SC SPOTLIGHTS** – interesting SC interview.
- **ANNOUNCEMENTS** – more information about 3rd ISPRS WG VI/5 and Student Consortium Summer School in Nanjing China 2008.

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## OTHER INFORMATION

### ESRI free seminars.

The recording of the Live Training Seminar of Sep 13, 2007 is now available!

Title: Introduction to the Cadastral Editor in ArcGIS Survey Analyst 9.2  
Description: This informative seminar will focus on the new technology available with the ArcGIS 9.2 Survey Analyst extension, called the Cadastral Editor. This technical seminar is geared for those in the cadastral land records industry who want to maintain spatially accurate cadastral base. See: [http://training.esri.com/acb2000/showdetl.cfm?&DID=6&Product\\_id=899](http://training.esri.com/acb2000/showdetl.cfm?&DID=6&Product_id=899).  
Price: FREE

### ESRI International User Conference 2008. Call for Presentations.

It's time to start planning for the 2008 ESRI International User (ESRI UC)! Abstracts are now being accepted for the conference, scheduled for August 4-8, 2008, in San Diego, California. Collaborating with your customers on a paper submission provides a unique way to showcase your products and services to the more than 14,000 attendees expected at next year's conference. Abstracts are also now being accepted for the Education User Conference and the Survey & Engineering GIS Summit, which will take place concurrently, August 2-5, in San Diego. The submission deadline for all abstracts is **November 2, 2007**. To submit an abstract for any of these events, visit <http://www.esri.com/events/uc/papers/callforpapers.html>.

### VLS Releases LIDAR Analyst 4.2

VLS is pleased to announce the new release of LIDAR Analyst<sup>®</sup> 4.2 for ArcGIS. A free trial version of the software with tutorial is available at [www.lidaranalyst.com](http://www.lidaranalyst.com).

Now, important new tools and capabilities are added with the release of LIDAR Analyst 4.2, including:

- \* Batch processing of multiple LiDAR data files
- \* Direct export of 3D buildings to Google Earth
- \* Enhanced DEM generation and editing
- \* Additional contour and attribution tools for terrain and vegetation features
- \* Control point analysis to compare extracted elevation values to ground truth control points
- \* Ability to assign a coordinate system to LAS files
- \* A convert LAS file to raster tool
- \* Optimizations for all underlying algorithms

### AIS Announces New Urban Reality Multi-Sensor Imaging System

Active Imaging Systems LLC (AIS) announces their entry into the vehicle based imaging and mapping marketplace with the first commercially available total solution for street-level active imaging – Urban Reality (<http://spatialnews.geocomm.com/dailynews/2007/sep/24/news1.html>)

**University of West Florida** - The University of West Florida ([www.uwf.edu/gis.gisonline](http://www.uwf.edu/gis.gisonline)) is accepting applications for our 100% online undergraduate and graduate GIS certificates. These credit earning certificate programs run for one year starting in the spring semester. Enrollment is limited so apply now. Laptops pre-loaded with GIS software are available to students who require them.

### First Look Review: PhotoModeler 6

By Ron LaFon

Most people don't perceive photogrammetry software as being either easy to use or useful for creative pursuits, but Eos Systems has succeeded in meeting both of these requirements with its new release of PhotoModeler. PhotoModeler 6 offers a wealth of new features. The goals for PhotoModeler 6 were the following:

- \* improve ease of use and workflow
- \* improve modeling tools and make certain objects faster and easier to model
- \* add numerous user-requested features
- \* improve the tools used to judge quality and debug problems in projects
- \* improve interaction with external CAD, rendering, and mapping tools

PhotoModeler 6 is suited for many endeavors, including accident reconstruction, industrial and scientific measurement, AEC and preservation efforts, film and animation production, and Google Earth projects. Read more: <http://listmgr.questex.com/t/3148033/48074036/826900/0/>

You have to visit this portal:



<http://www.giscafe.com/>