

**Newsletter of the Chinese Professional Geographic
Information Science**



Special Issue: CPGIS 2009-2010 Presidential Election



Dr. Aijun Chen vs. Dr. Xun Shi

To all CPGIS members (you have to be a registered member to be eligible for voting):

**By now, we have finished the candidates' campaign stage.
Please cast your vote by sending an email to election@www.cpgis.org.
Let your voice be heard!**

Deadline: 4:30pm, Nov. 7, 2008 (Monday)

Election Committee:

Fahui Wang (chair), Shuming Bao, Qinghua Guo,
Hanming Tu, and Liheng Zhong

Oct. 10, 2008

CPGIS President Campaign Speech for 2009-2010 Term

By Dr. Aijun Chen (陈爱军)

Dear Fahui, election committee members and all other members:

First, I would like to thank those members who nominated and supported me to go ahead to be a 2009-2010 president of CPGIS. Also, I would like to thank those members and ex-presidents for their great supports and understanding to my work for CPGIS since 2005. It is really my honor to be nominated as a presidential candidate for such a great association. I am feeling much more pressure. The pressure will be an impetus to let me contribute much more time, energy, and ideas to CPGIS if I was elected.

CPGIS offers both real and virtual venues for advancing the professional development of its members, promoting the exchange of information, knowledge, scientific discovery and ideas in GIS and related sciences and technologies all around the world, and providing a bridge between its members with other GIS professionals. With the continuous efforts and hard work from our numberless members over the past 15 years, CPGIS has obtained a great progress in the above three aspects. Now, CPGIS is expanding its prestige, especially in China, and attracting more and more new members to join in to make it stronger. However, increasing prestige and members is still a challenging issue for CPGIS.

Considering the booming of China economy, the strong support of China government to 3S science and technologies, and the coming up of Google Earth and Virtual Earth as public GIS platforms, it is the time and opportunity to promote CPGIS to a higher level for playing more important role in academic exchanging between abroad and China professionals, increasing its fame, and advancing academic professional development and papers.

Under the above situations, except for keeping on the healthy running of our association, I would like to devote my much more time, energy, enthusiasm, and passion to focus on resolving the following issues with concrete, feasible measures to improve our associations during my presidency if I was elected.

1. **To register CPGIS in USA** as a tax-exempt non-profit organization under section 501(c) (3) of the Internal Revenue Code. I will ask Prof. Liu Lin to help for the documentation work as he promised ☺
2. **To re-activate Business Committee**
 - 1) After CPGIS is registered in USA, *to apply CPGIS to be a member of Combined Federal Campaign (CFC)*. It will allow CPGIS to receive donations from US federal employees. The eligibility of being a member of CFC has to be re-applied annually. So, every later president should pay attention to it and guarantee the application is done at the beginning of his/her presidency. This is a way to get financial support for running our association. Details are available: <http://www.opm.gov/CFC/>; <http://www.cfcnca.org/>.

- 2) After CPGIS is registered in USA, *to add "Google AdSense" to CPGIS website* to get sustainable financial supports for running our association. I hope our members visit our website frequently and click ads to increase our income. I am not sure how much income we can get, but, I would like to try it.

3. **To strengthen Membership Committee**

- 1) *To improve membership database*. I will establish complete, latest, and accurate information of every old and new member (now, there are almost 1/3 members only having name, email and phone). Most of them are from China mainland where our most potential new members exist. Also, I will add new field for a short bio for every member.
- 2) *To promote the recruiting of new members via two steps*. Although senior members are always our invaluable assets, new members are fresh blood for pushing the growth of CPGIS.

First, I will promote the popularity of CPGIS among more professionals and students to let them **KNOW** our association via **a)** improving website (please refer to item 4 for planned concrete measures); **b)** delivering CPGIS brochures and annual conference notice to most RS & GIS conference, such as AAG, AGU, ASPRS, CAGIS, GIScience, ACMGIS, GeoComputation etc.; **c)** creating AGU Get-together (refer to item 5); **d)** collecting email address from old and new members graduated from some famous units, such as Buffalo, Berkeley, etc., and now working at RS, GIS, and IT fields, then, sending CPGIS news to them periodically. I would like to ask help to our senior members to either list email address that they knew or list specific famous units that they knew.

Secondly, I will attract more professionals and students to **JOIN IN** our association via: **a)** mailing free journals to every members to affect his/her friends, colleagues, classmates to join in CPGIS; **b)** broadcasting such member benefits as participating annual conference with less registration fee, qualifying to participate Young Scholar Summit and Go-Home programs, being eligible to access to more than 150 members' detailed contacts and career information; **c)** Making best use of the managers of all regional stations, especially the stations in China. They have duties to recruit new members when they agree to serve CPGIS as a manager. I will try to offer some impetus.

This target can be quantitatively measured via how many new members join in CPGIS during my presidency.

4. **To strengthen Website Committee**. To greatly improving CPGIS website via the following measures: **a)** adding a counter for counting access quantity; **b)** optimizing the search engine, there are some tricks needing to be figured out; **c)** adding ads for public benefits first, maybe adding commercial ads later; **d)** asking all professor-level members link CPGIS website to their departments' websites if it was possible; **e)** establishing related links to most popular RS & GIS universities', academia's, governments', organizations', and commercial websites and also try to ask them to link to CPGIS. This work can be quantitatively measured via access quantity of website during my presidency. Useful website will be an attraction to new members.
5. **To establish AGU Get-together Committee**. I will create CPGIS members' Get-together at AGU Fall meeting at San Francisco, CA, USA. CPGIS ads will be

broadcasted to attract most possible persons to join in our Get-together. There is a great potential to attract new members.

6. **To strengthen Newsletter Committee**
 - 1) To continue to maintain the current newsletter bi-monthly.
 - 2) To *release latest RS & GIS news and job information on our homepage* at least weekly. This action has the potential to increase both the prestige and the income of CPGIS, and further attract new members and back up database regularly.
7. **To coordinate to advance the Journal of GIS (Journal Editor Committee)**. I will provide any needed support and help that CPGIS can provide while our senior members try to promote the journal to higher academic level.
8. **To strengthen academic exchange** between CPGIS and China via coordinating a) annual conference; b) AAG get together; c) professional training; d) Go-Home program; e) Young scholar summit; and other academic activities.

My main point is **increasing the income for running CPGIS via Business committee and the prestige of CPGIS for retaining current members and attracting new members via Newsletter, Membership, AAG Get-together, AGU Get-together, and Website committee to form a positive cycle of CPGIS**. I will greatly focus on the above listed items. However, all our other sub-committees work will be on the way and get my strong support and appreciations at any time.

My performance can be evaluated based on following rules after I finished my presidency:

1. The finished concrete work with good reviews from our members.
2. The increased quantity of access to CPGIS website in my presidency.
3. The increased new members in our membership database in my presidency.
4. The improvement of CPGIS website. It is not quantifiable, but, it will be obvious.
5. A successful working team with their successful activities. The success of the presidency will be visible although it is not quantifiable.

One-year term is not too long for promising to do much big things, however, it is long enough to do couple actual and concrete things to improve CPGIS step by step and then try to keep the achievements acquired at every step. In a long way, CPGIS will be successful.

Yours truly,

Aijun Chen

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Dr. Aijun Chen' Brief Bio

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Education

1997 – 2000, Ph.D. in cartography and GIS, Peking University, Beijing, China
1994 – 1997, M.S. in wireless electronics, Central China Normal Univ., Wuhan, China
1990 – 1994, B.S. in physics, Shanxi Normal University, Linfen, China

Professional Experiences

05/2002 – Present, Research Associate Professor (since Jun. 2008)/Research Assistant Professor (since Nov. 2004)/Research Associate, Center for Spatial Information Science and Systems (CSISS), George Mason University.
09/2000 – 03/2002, Post-doctor, Department of Computer Science & Technology, Tsinghua University, Beijing, China.
05/1999 – 09/1999, Research Associate, National Information Center, Beijing, China.
10/1995 – 05/1997, Research Associate, National Laboratory for Intelligent Technology and System, Tsinghua University, Beijing, China.

Recently Participated Programs

- USA NASA Project: “Using Google Earth to enhance and promote the use, usefulness and usability of NASA GES DISC atmospheric data for scientific research and public use”, Tech Lead, designer and developer. (Jan. 2007 – Now).
- USA NASA Project: The A-Train Data Depot Project “integrating Atmospheric Measurements along the A-Train Tracks Utilizing Data from the Aqua, CloudSat and CALIPSO Missions”, Tech Lead, designer and developer. (Jan. 2007 – Now).
- USA NASA Project: “The Integration of Grid Technology with OGC Web Services (OWS) in NWGISS for NASA HDF-EOS Geospatial Data”, Team Leader. (Jun 2002 – Apr. 2006)
- USA NASA EOS Higher-Education Alliance (NEHEA) – “GeoBrain: Mobilization of NASA EOS Data and Information through Web Services and Knowledge Management Technologies for Higher-Education Teaching and Research”, Key designer and main developer. (Jan. 2004 – Jan. 2007)
- OGC project: OGC Web Services (OWS) Program. Key designer and developer. (Jun. 2002 -- Apr. 2006)

Recent Peer-reviewed Papers and Book Chapters

- Aijun Chen, Leptoukh, G., Kempler, S., Nadeau, D., Zhang, X. and Di, L. (2008). Augmenting the Research Value of Geospatial Data using Google Earth. In: (ed.) De Paor, D., Google Earth Science, Journal of the Virtual Explorer, Electronic Edition, ISSN 1441-8142, Volume 30, Paper 4. (21 pages).

- Aijun Chen, Gregory Leptoukh, Liping Di, Denis Nadeau, John Farley, Christopher Lynnes, & Steven Kempler. Visualization of and Access to CloudSat Vertical Data through Google Earth. *Computers and Geosciences*. (in press) (14 pages).
- Liping Di, Aijun Chen, Wenli Yang, Yang Liu, Yaxing Wei, Pyrush MehrotraP, Chaumin Hu and Dean Williams (2008). The Development of a Geospatial Data Grid by Integrating OGC Web Services with Globus-based Grid Technology. *Journal of Concurrency: Practice and Experience*, Volume 20, Issue 14, Pages 1617-1635 (25 September 2008).
- Aijun Chen, Liping Di, Yuqi Bai and Yaxing Wei (2008). *GeoSpatial Grid*. Encyclopedia of GIS, Shekhar, Shashi; Xiong, Hui (Eds.), XL, 1377p, ISBN: 978-0-387-35975-5, Springer-Verlag, Berlin.
- Yuqi Bai, Liping Di, Aijun Chen, Yang Liu, and Yaxing Wei (2007). Geospatial Catalogue Federation Service: A Case Study in Integrating NASA ECHO, GMU CSISS CSW and ESG Catalogue. *Photogrammetry Engineering and Remote Sensing: Web and Wireless GIS -- June 2007 Special issue*. Volume 73, Number 6. (10 pages)
- Yaxing Wei, Liping Di, Baohua Zhao, Guangxuan Liao, Aijun Chen (2007). Transformation of HDF-EOS metadata from the ECS model to ISO 19115-based XML. *Computers & Geosciences*. Volume 33, Issue 2, February 2007, pp238-247.
- Aijun Chen, Liping Di, Yuqi Bai and Yaxing Wei. Serving Geospatial Data through Grid Computing. *The Encyclopedia of Geoinformatics*. H. Karimi (ed.) Information Science Reference, Hershey, PA. USA (in press).
- Yuqi Bai, Liping Di, Aijun Chen, Yang Liu, Yaxing Wei. Geospatial Catalog Services: A Case Study on the FGDC Clearinghouse, NASA ECHO and LATIS CSW. *The Encyclopedia of Geoinformatics*. H. Karimi (ed.) Information Science Reference, Hershey, PA. USA (in press).
- Aijun Chen, Liping Di, Yaxing Wei, Yuqi Bai, Yang Liu. An optimized Grid-based, OGC standards-compliant collaborative software system for serving NASA geospatial data. 2nd IEEE Systems and Software Week (SASW 2006), 30th Annual Software Engineering Workshop. April 25-27, 2006. Loyola College Graduate Center, Columbia, Maryland, USA.

Recent Honorary and Awards

- “NASA Robert H. Goddard Award (2008)” award for exceptional achievement for ENGINEERING to Earth Science Data Search, Exploration & Access Team for the implementation of GIOVANNI and MIRADOR, NASA.
- “NASA Robert H. Goddard Award (2008)” for exceptional achievement for OUTREACH to Multi-Mission Data Support Team for the implementation of innovative Multi-Mission Data Services, NASA.
- Best Service Award, The International Association of Chinese Professionals in Geographic Information Sciences, 2007 – 2008.
- Certificate of Excellence, NASA Goddard Earth Science Data and Information Service Center (GES DISC), 2007.

Society Services

Chair, Website committee, the International Association of Chinese Professionals in Geographic Information Sciences (CPGIS), 2004 – Present.

CPGIS President Campaign Speech for 2009-2010 Term

By Dr. Xun Shi

First, I want to thank Yongmei's nomination, and Hui and Yong's seconds. Thank you for your trust. I want to thank Le, Lin, Chaowei, and Ge's participations of the discussion. Thanks for the great questions and comments. Thanks, Fahui, for the coordination through this process. Finally, I want to thank Aijun. I cannot imagine a more enthusiastic and thoughtful rival. I wouldn't call what we've gone through a "debate" (Fahui called it "exchange"), because essentially there are no contradictory points between Aijun and me (although I actually would like to see more diverse opinions next time, which will make the election more exciting). This was really an exciting and inspiring experience to me. I will cherish the memory for long.

Here are some summary notes, also including responses to some questions and comments that I didn't have chance to respond:

1. "Identity" of CPGIS: My understanding is that "CPGIS" is an INTERNATIONAL organization of CHINESE GIS professionals (where Chinese is most broadly defined). We are not geographically defined, neither China, Asia, Europe, Australia, nor North America. Meanwhile we always have an open mind and a welcoming gesture. This "identity" may seem self-evident, but may sometimes need to clarify.
2. I fully support the "transfer" of our journal to T&F and I highly appreciate the great effort being made by Dr. Hui Lin. I believe this transfer will lift the journal, as well as CPGIS, to a new level. I highly encourage all our members to support our journal. I especially propose that the president and his/her "cabinet" members, as well as the BOD members, to make more contributions to the journal.
3. I fully support the idea that CPGIS can be more active in the commercial/business/industrial aspect. This means two things: CPGIS may help its members to explore business opportunities and CPGIS may have more ads income from its web and journal. I support to go through any necessary paperwork (register in US and the 501(c)3 status), unless there are strong reasons not to do so.
4. The CPGIS website is an important resource and the "frontpage" of the organization. I fully support to bring it to a new level, in terms of visual appearance, information volume, and function availability. The website should have functionality covering three major aspects: 1) the information and service related to this organization, e.g., annual conference information, membership registration, etc.; 2) the information and service related to Chinese GIS people (where GIS is most broadly defined), e.g., easy-to-use browsing and keyword-searching tools to look into the talent database; 3) and the information and service related to general GIS, including event notices, calls for proposals, company links, and data source links. If the website can be self-support through ads income, I propose to out-contract the visual design, function programming, and daily updates.

5. I favor the "reach-out" strategy for expanding our member base. Specifically, I plan to use the CPGIS mail list to reach certain targeted groups, particularly young scholars. Another effective strategy is to keep enforcing the membership requirement to the participants of our activities. For example, this requirement to the participants of the student paper competition helped recruit quite a few new members in 2008.

6. All the current and past CPGIS activities and events, including the annual conference, workshops, go-home programs, etc., are fruits of the efforts from generations of our members and leaders, and have become the tradition and flags of this organization. We want to make every effort to keep up the great job and explore new ideas and opportunities. Every activity or event has its own characteristics. If I become the president, I would like to discuss with the organizer of each activity and event about the successful tips and the potentials for improvements. These experiences and knowledge are treasures of this organization.

BTW, talking about tradition, Fahui said it becomes a tradition that a CPGIS president has a new baby in the year he/she is elected. I just got a baby boy this August, so please consider to maintain this wonderful tradition when you cast the vote.

Thanks!

Xun

Dr. Xun Shi' Brief Bio

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EDUCATION:

- **Ph.D.**, May 2002, Department of Geography, The University of Wisconsin-Madison
- **M.Phil.**, December 1998, Center of Urban Planning and Environmental Management, University of Hong Kong
- **M.S.**, June 1994, Institute of Geography, Chinese Academy of Sciences
- **B.S.**, June 1991, Department of Geography, Beijing University

EMPLOYMENT HISTORY

Associate Professor, July 2008 – present, Department of Geography, Dartmouth College.
Assistant Professor, July 2002 – June 2008, Department of Geography, Dartmouth College.
Lecturer, January 2001 – January 2002, Department of Geography, University of Wisconsin-Madison.
Teaching Assistant, January 2000 – December 2000, The Department of Geography, University of Wisconsin-Madison.
Research Assistant, September 1997 – May 1998, for project "Soil Mapping Using GIS with Fuzzy Logic", which is awarded to Professor A-Xing Zhu by the Graduate School of University of Wisconsin-Madison.
Assistant Researcher, September 1994 – December 1995, at The National Laboratory of Resources and Environment Information System, Beijing, China.

SELECTED PUBLICATIONS:

- Shi, X., A GeoComputation Process for Characterizing the Spatial Pattern of Lung Cancer Incidence in New Hampshire, *Annals of the Association of American Geographers*. Accepted.
- Shi, X., Long, R., Dekett, R., and McKay, J., Integrating Different Types of Knowledge for Digital Soil Mapping, *Soil Science Society of America Journal*. Accepted.
- Yang, Q., Li, X., and Shi, X., 2008, Cellular Automata for Simulating Land Use Changes Based on Support Vector Machines, *Computer and Geoscience*, **34**: 592-602.
- Onega, T., Duell, E., Shi, X., Wang, D., Demidenko, E., and Goodman, D., 2008, Geographic Access to Cancer Care in The United States, *Cancer*, **112**(4): 909-918.
- Liu, X., Li, X., and Shi, X., Wu, S., and Liu, T., 2008, Simulating Complex Urban Development Using Kernel-Based Nonlinear Cellular Automata, *Ecological Modelling*, **211**: 169-181.
- Shi, X., Elmore, A.J., Li, X., Gorence, N.J., Jin, H., Zhang, X., and Wang, F., 2008, Using Spatial Information Technologies to Select Sites for Biomass Power Plants: A Case Study in Guangdong, China, *Biomass and Bioenergy*, **32**: 35-43.
- Elmore, A.J., Shi, X., Gorence, N.J., Li, X., Jin H., Wang, F., Zhang, X., 2008, Spatial Distribution of Agricultural Residue from Rice for Potential Biofuel Production in China, *Biomass and Bioenergy*, **32**: 22-27.

- Shi, X., Duell, E., Onega, T., Demidenko, E., Wilson, B., and Hoftiezer, D., 2007, A Polygon-based Locally Weighted Average Method for Smoothing Disease Rates of Small Units, *Epidemiology*, **18**(5): 523-528.
- Shi, X., 2007, Evaluating the Uncertainty Caused by P.O.Box Addresses in Environmental Health Studies: A *restricted* Monte Carlo Approach, *International Journal of Geographical Information Science*, **21**(3): 325-340.
- Shi, X., Zhu, A-X., Burt, J., Choi, W., Wang, R-X., Pei, T., and Li, B-L., 2007, An Experiment with Circular Neighborhood in the Calculation of Slope Gradient from DEM, *Photogrammetric Engineering & Remote Sensing*, **73**(2): 143-154.
- Shi, X, Hoftiezer, D., Duell, E., and Onega, T., 2006, Spatial Association between Residential Radon Concentration and Bedrock Types in New Hampshire, *Environmental Geology*, **51**(1): 65-71.
- Shi, X., Zhu, A-X., Burt, J., Qi, F., and Simonson, D., 2004, A Case-based Reasoning Approach to Fuzzy Soil Mapping. *Soil Science Society of America Journal*, **68**: 885-894.
- Yeh, A. G. O. and **Shi, X.**, 2001, Case-based reasoning (CBR) in development control. *International Journal of Applied Earth Observation and Geoinformation*, **3**: 238-251.
- Shi, X. and Yeh, A. G. O., 1999, The Integration of Case-Based Systems and GIS in Development Control. *Environment and Planning B: Planning and Design*, **26**: 345-364.
- Yeh, A. G. O. and **Shi, X.**, 1999, Applying case-based reasoning to urban planning: a new planning support system tool. *Environment and Planning B: Planning and Design*, **26**: 101-116.
- Shi, X., Zhu, A-X., and Wang, R-X., 2005, Deriving Fuzzy Representations of Some Special Terrain Features Based on their Typical Locations. Cobb, M., Petry, F., and Robinson, V. (eds.), *Fuzzy Modeling with Spatial Information for Geographic Problems*, Springer-Verlag, pp. 233-251.

GRANTS

- 2005, *United States Department of Agriculture – Natural Resources Conservation Service*, Geographic Information System (GIS) and Artificial Intelligence (AI) Based Approach for Automated Soil Mapping (Contract No. 53-7482-5-466), \$79,816 for four years, PI: Xun Shi.
- 2005, *Rockefeller Center at Dartmouth College*, Social Science – Public Policy Grant: Utilization and Impact of Advanced Biomass Energy Production in China, \$17,466 for one year, PI: Xun Shi.
- 2004, *Rockefeller Center at Dartmouth College*, Study of Public Responses to the Results of a Environmental Health Research, \$2,500 for one year, PI: Xun Shi.
- 2003, *National Institute of Health*, Environmental Epidemiology of Lung Cancer in New Hampshire: A Multilevel Approach using GIS and Case-Control Method (Project 5 of COBRA Program at Dartmouth), \$1,900,000 for 5 years, PI: Eric Duell, Co-PI: Xun Shi.
- 2003, *Rockefeller Center at Dartmouth College*, Using GIS in Environmental Health, \$2,500 for one year, PI: Xun Shi.

HONORS AND AWARDS

- Dartmouth College: Petitt Family Fellowship (2008)
- Dartmouth College: Junior Faculty Fellowship (2005)
- March 2001, The Meritorious Teaching Award from the Geography Department of University of Wisconsin-Madison.
- February 2001, The first place award of the student illustrated paper competition, held by the Remote Sensing, GIS and Cartography Specialty Groups of The Association of American Geographers.
- 1995 - 1997, Scholarship of The University of Hong Kong.