Chin-Te (Calvin) JUNG

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SPECIALITIES

- Spatial Decision Support System
- Ontology
- Environmental Indicator Modeling
- Spatial Analysis
- Web GIS services
- Spatial Data Infrastructure
- Geospatial Web Application
- Spatial Data Mining

TECHNICAL SKILLS

Client-side	Angular2, TypeScript, Gulp, Grunt, JavaScript ES6, jQuery, Bootstrap, CSS, HTML5, AngularJS, Ionic
Server-side	Node.JS, Jenkins, Amazon EC2, Amazon S3, Python, Flex
Database	Amazon Dynamo DB, MongoDB, MS SQL
GIS	ArcGIS REST API, ArcGIS Server, ArcPy, Leaflet API, OpenLayers API, GDAL Pyhton API, ArcObjects, Google Maps API, WMS, WPS, WFS, GeoJSON, KML
Other	Scrum

PROFESSIONAL EXPERIENCES

Web Application Developer, Esri (Beijing) R&D Center   **2016.02－present**

- Developer lead of Survey123 Hub
- Designed and implemented technical solutions to meet users' requirements and to improve the productivity of development
- Helped team members with screening and finding the right technical candidates
- Collaborated with international teams for product release plans and software solutions.
- Had two presentations about how to use Scrum development on projects at 2016 and 2017 Esri China Dev Summit.
- Researched and designed technical solutions for new products.

Chief Data Scientist, Center of Human Dynamic at the Mobile Age (HDMA),   **2014.04－2016.01**
San Diego State University

- Organized 2015 Big Data Hackathon for San Diego
- Used NodeJS, jQuery, Leaflet API, ESRI mapping services, AngularJS, Ionic, and MongoDB to develop Web applications to present analyzed results from Twitter data
- Used Node.JS socket to broadcast real-time tweets to users
- Used spatial-temporal analysis and natural language processes to discover geospatial and linguistic patterns

Chief Technology Officer (CTO), PathGeo   **2013.01－2014.07**

- Designed and implemented front-end Web applications and RESTful API using Node.JS, python, jQuery, Leaflet API, ArcGIS Mapping services, MongoDB
- Created a Web crawler to crawl Facebook data

- Used data mining methods (such as association rules and decision tree) to analyze Twitter and Facebook data
- Amazon EC2 instance administrator

GIS Consultant, KISR   2013.04－2013.12
- Lead, designed, and implemented a Web application by jQuery, OpenLayers API, ArcGIS Server, and GeoServer to show and perform environmental indicators
- Provided geospatial analysis and problem-solving solutions

GIS Developer, UNDP (Duty Site: Kuwait Institute of Scientific Research)   2012.10－2013.03
- Lead and designed GIS web-based applications and Web services by jQuery, OpenLayers API, ArcGIS Server, SuperGIS Server, and GeoServer to visualize and analyze Kuwait geospatial data

Vice Director of Technical Division, Taiwan GIS Center   2012.04－2012.09
- Lead and Designed a GIS cloud application, similar to ArcGIS online, to collect, consume, and analyze geospatial Web services.
- Project manager of the GIS cloud application
- Used ArcGIS Server, SuperGIS Server, and GeoServer to publish GIS web services
- Designed and implemented JS API with detail technical documents
- Lead the team to earn the Best GIS Technology Award from Taiwan Geographic Society in 2012.

Senior System Analyst, Taiwan GIS Center   2010.07－2012.03
- Used multiple state-of-art geospatial technologies (such as ArcGIS Server, jQuery, Google Maps API, GeoServer, OpenLayers API, and ESRI mapping services) to develop Web applications
- Used data mining to analyze the location suitability of convenience stores in Taipei city, Taiwan
- Designed and implemented JS API with detail technical documents

GIS Research Assistant   2002－2007
- Researched and integrated ontologies in GIS to develop an intelligent and semantics-interoperable platform for the geospatial semantic Web.

EDUCATION

National Taiwan University, Ph.D., 2013, Geography

National Taiwan University, M.Sc., 2005, Geography

National Taiwan University, B.Sc., 2003, Geography

PUBLICATIONS

SELECTED PAPERS

Ming-Hsiang Tsou, Michael Peddecord, Jeffrey Johnson, **Chin-Te Jung** (2015) Geo-based Social Media Analytics and SMART dashboard for Tracking Influenza Outbreaks*, Online Journal of Public Health Informatics*, 7(1): e95.

Chin-Te Jung, Chih-Hong Sun, Min-Fang Lien, Chih-Shyang Chang, Wei-Jen Chung, Hong-Yang Lin, Ping-Ying Tsai (2013) MAKOCI: A Web Portal for Integration and sharing geographic information services, Geography, environment, and sustainability, 1(6): 37-54.

Chin-Te Jung, Chih-Hong Sun, and May Yuan (2013) Ontology-enabled framework for a geospatial problem-solving environment, *Computers, Environment, and Urban Systems*, 38: 45-57. **[SSCI]**

Wan-Kai Lee, Chien-yuan Lin, Chih-Hong Sun, **Chin-Te Jung** (2006) Development of a spatial conversion model for census data, *Journal of Architecture*, 59:127- 144.

PROCEEDING PAPERS

Ming-Hsiang Tsou, **Chin-Te Jung**, Chris Allen, Jiue-An Yang, Jean-Mark Gawron, Brian H Spitzberg, Su Han (2015) Social media analytics and

research test-bed (SMART dashboard), *Proceedings of the 2015 International Conference on Social Media & Society.*

Chin-Te Jung, Chih-Hong Sun (2006) Development of a GIService based on Spatial Data Mining for Location Choice of Convenience Stores in Taipei City, *Eds. Huayi Wu, and Qing Zu, GeoInformatics 2006: Geospatial Information Technology, Proceeding of SPIE*, 6421:381-390.

CONFERENCES

Chin-Te Jung, Chih-Hong Sun, Min-Fang Lien, Chih-Shyang Chang, Hong-Yang Lin, and Wei-Jen Chung (2012) MAKOCI: a GIS Cloud-based Web application for Open GeoData, *2012 CODATA*, Taipei, Taiwan.

Chin-Te Jung, Chih-Hong Sun, Min-Fang Lien, Chih-Shyang Chang, Wei-Jen Chung, Hong-Yang Lin (2012) MAKOCI: a Web Portal for Integrating and Sharing Geographic Information Service, 2012 InterCarto 18 Conference, Smolensk, Russia

Chin-Te Jung, Dong-Po Deng, Tz-Han Schee, Chih-Hong Sun (2012) Open GeoData, *2012 Annual Conference of Taiwan Geographic Information Societ*y, Taichung, Taiwan.

Chin-Te Jung, Chih-Shyang Chang, Chih-Hong Sun, Min-Fang Lien, and Wei-Jen Chung (2011) A Graphic Interface for Mashuping GI services—Use ArcGIS Server as an example, *2011 Annual Conference of Taiwan Geographic Information Societ*y, Taipei, Taiwan.

Chin-Te Jung, Chih-Hong Sun, Min-Fang Lien, Wei-Jen Chung, and Chih-Shyang Chang (2011) MAKOCI: a GIS App, *2011 Annual Conference of Taiwan Geographic Information Societ*y, Taipei, Taiwan.

Chin-Te Jung, Chih-Hong Sun, Min-Fang Lien, Tzai-Hung Wen, Joe-Air Jiang, Jehn-Yih Juang, Chih-Shyang Chang, Wei-Jen Chung, and Hong-Yang Lin (2011) Ontology-Based Multi-Agent Platform for Sensor Data Integration and Sharing, SWE2011 Conference, Banff, Canada.

Chin-Te Jung, Chih-Hong Sun (2010) MAKOCI: Multi-Agents Knowledge Oriented Cyberinfrastructure for SDSS, *Asia GIS 2010 International Conference*, Kaoshiung, Taiwan.

Chin-Te Jung, Chih-Hong Sun (2010) Ontology-driven Problem Solving Framework for Spatial Decision Support Systems, *The 7th Taipei International Digital Earth Symposium*, Taipei, Taiwan

Chin-Te Jung, Chih-Hong Sun (2010) An Knowledge-oriented Framework for Spatial Decision Support System, *2010 Annual Meeting of the Association of American Geographers (AAG-2010)*, Washington D.C., USA.

Chin-Te Jung, Chih-Hong Sun (2009) An Ontology Framework for Spatial Decision Support System, *2009 Annual Conference of Taiwan Geographic Information Societ*y, Taichung, Taiwan

Chin-Te Jung, Chih-Hong Sun, Kuo-Chih Hong (2009) Development of an Ontology-based Framework for Geospatial Semantic Decision Support System, *6th International Symposium on Digital Earth*, Beijing, China

Chih-Hong Sun, **Chin-Te Jung**, Fui-Yu Kuo, Wan-Kai Lee, Min-Fun Lien, Kuo-Chih Hung (2009) Development of an Ontology-based Service Oriented Architecture Framework for National Geographic Information System in Taiwan, GSDI-11 World Conference, Rotterdam, The Netherland

Chin-Te Jung, Chih-Hong Sun (2007) Applying Web GIS 2.0 on agriculture surveys, *The fifth Taipei international digital earth symposium*, Taipei, Taiwan.

Chin-Te Jung (2006) The Overview of GeoSemantic Web, *Open GIS & Web GIS*, Taipei

Chin-Te Jung, Chih-Hong Sun (2006) Model Suitable Locations for Convenience Stores in Taipei City with Decision Tree Analysis, 4th Greater China GIS Conference, Kunming, China

Chin-Te Jung, Chih-Hong Sun (2006) Development of a Web-based Spatial Decision Support System for Business Location Choice in Taipei City, *ESRI User Conference 2006*, San Diego, USA.

DISSERTATION AND THESIS

Chin-Te Jung (2013) *KOCI: Knowledge Oriented Cyberinfrastructure for Spatial Decision Support System*, Doctoral Dissertation, University of National Taiwan University, Taiwan.

Chin-Te Jung (2005) *Spatial data mining on census data – a case study for location analysis of convenience stores in Taipei city*, Master dissertation, University of National Taiwan University, Taiwan.