

# 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	jQuery, jQuery UI, jQuery Mobile, Bootstrap, CSS, HTML5, AngularJS, Ionic, Dojo
Server-side	Python, Node.JS, Flex
Database	MongoDB, MS SQL
GIS	Leaflet API, ArcGIS Server, ArcGIS API, ArcPy, OpenLayers API, GDAL Python API, ArcObjects, Google Maps API, WMS, WPS, WFS, GeoJSON, KML

## PROFESSIONAL EXPERIENCES

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

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

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

- Design and implement front-end Web applications and RESTful API using Node.JS, python, jQuery, Leaflet API, ArcGIS Mapping services, MongoDB
- Create a Web crawler to crawl Facebook data
- Use 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, design, and implement a Web application by jQuery, OpenLayers API, ArcGIS Server, and GeoServer to show and perform environmental indicators
- Provide geospatial analysis and problem-solving solutions

**GIS Developer, UNDP (Duty Site: Kuwait Institute of Scientific Research)** **2012.10 — 2013.03**

- Lead and design 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 Design a GIS cloud application, similar to ArcGIS online, to collect, consume, and analyze geospatial Web services.
- Project manager of the GIS cloud application
- Use ArcGIS Server, SuperGIS Server, and GeoServer to publish GIS web services
- Design and implement 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**

- Using 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
- Use data mining to analyze the location suitability of convenience stores in Taipei city, Taiwan
- Design and implement JS API with detail technical documents

**GIS Research Assistant****2002 — 2007**

- Research and integrate 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 Society*, 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 Society*, 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 Society*, 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 7<sup>th</sup> 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 Society*, Taichung, Taiwan

**Chin-Te Jung**, Chih-Hong Sun, Kuo-Chih Hong (2009) Development of an Ontology-based Framework for Geospatial Semantic Decision Support System, *6<sup>th</sup> 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, *4<sup>th</sup> 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.