

Contact Information

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Research Interests

- Database Systems
- Spam E-mail Filtering
- Ontologies
- Database Federation
- Data Mining
- Personal Information Management

Education

Ph.D., Computer Science (Advisor Prof. Dennis McLeod) *December 2009*
University of Southern California, Los Angeles, CA, USA
Thesis Title: **Spam E-mail Filtering via Global and User-Level Dynamic Ontologies**

M.S., Electrical Engineering *May 2003*
University of Southern California, Los Angeles, CA, USA

M.S., Computer Science *February 1999*
Sogang University, Seoul, Korea

B.S., Computer Science *February 1997*
Sogang University, Seoul, Korea

Experience

- **Research in University of Southern California, Los Angeles, CA**
 - **SPONGY (SPam OntoloGY) Project, Semantic Information Research Laboratory, USC (August 2006 ~ Current)**
 - Developed spam email filtering system using feature selection, data mining, text classification algorithms, and ontology
 - **Diagnosis based on Clinical Databases, Semantic Information Research Laboratory, USC (January 2008 ~ Current)**

- Research about critical factors for clinical data set from the patients using various feature selection and weighting algorithm
 - **CSFN Database Federation Project , Semantic Information Research Laboratory, USC (December 2006 ~ December 2007)**
 - Federation of human brain database, rat database, and neurotherapy fMRI database using an ontology
 - **Information Management for Multimedia Earthquake Science Data, JPL (January 2004 - May 2006)**
 - Developed an ontology from earthquake database
 - **Homeland Security Project in Disaster Situation, IMSC (January 2006 - May 2006)**
 - Alarm system in the disaster situation using agent and ontology
 - **Implementation of Multiple Re-transmission on YIMA Multimedia Server, IMSC (May 2003 ~ December 2003)**
- **Research in Sogang University, Seoul, Korea**
 - **Design of Board for Performance Improvement of BYNET Interconnection Networks, Sogang University, Korea (February 1998 ~ December 1998)**
 - **Development of MPP(Massively Parallel Processing) Computer, Sogang University, Korea (February 1998 ~ December 1998)**
 - **Optimized Cell Division in Cellular Communication System, Sogang University, Korea (August 1997 ~ May 1998)**

Teaching Assistant

University of Southern California., Los Angeles, CA

- 01/2009 ~ 05/2009 Teaching Assistant for CS555 (Advanced Operating Systems, Prof. Ted Faber Jr.)
- 08/2008 ~ 12/2008 Teaching Assistant for CS585 (Database Systems, Prof. McLeod)
- 01/2008 ~ 05/2008 Teaching Assistant for CS586 (Database Systems Interoperability, Prof. McLeod)
- 01/2008 ~ 05/2008 Teaching Assistant for CS555 (Advanced Operating Systems, Prof. Ted Faber Jr.)
- 08/2007 ~ 12/2007 Teaching Assistant for CS585 (Database Systems, Prof. McLeod)
- 08/2007 ~ 12/2007 Teaching Assistant for CS586 (Database Systems Interoperability, Prof. McLeod)
- 01/2007 ~ 05/2007 Teaching Assistant for CS585 (Database Systems, Prof. McLeod)
- 08/2006 ~ 12/2006 Teaching Assistant for CS585 (Database Systems, Prof. McLeod)
- 01/2006 ~ 05/2006 Teaching Assistant for CS585 (Database Systems, Prof. Shamsian)
- 08/2005 ~ 12/2005 Teaching Assistant for CS101 (Fundamentals of Computer Programming, Prof. Ghyam)
- 01/2005 ~ 05/2005 Teaching Assistant for CS455 (Introduction to Programming Systems Design, Prof. Narayanaswamy)

Sogang University, Seoul, Korea

- 03/1998 ~ 06/1998 Computer Architecture
- 08/1997 ~ 12/1997 Computer Architecture

Part-time Lecturer

Sogang University, Seoul, Korea

- 03/2000 ~ 06/2000 Digital Circuit Design
- 08/1999 ~ 12/1999 Digital Circuit Design

Publications

Journal Papers

- Seongwook Youn and Dennis McLeod, "Spam E-mail Filtering via Global and User-Level Dynamic Ontologies," *Elsevier Information Systems*. (submitted)
- Seongwook Youn and Dennis McLeod, "Spam Email Classification using an Adaptive Ontology," *Journal of Software (JSW)*, ISSN:1796-217X, Volume 2, Issue 3, Pages 43-55, 2007

Book Chapters

- Seongwook Youn and Dennis McLeod, "Ontology Development Tools for Ontology-based Knowledge Management," *Encyclopedia of E-Commerce, E-Government and Mobile Commerce*. Idea Group Inc. 2006

Conference Papers

- Seongwook Youn and Dennis McLeod, "Spam Decisions on Gray Email using Personalized Ontologies," *24th Annual ACM Symposium on Applied Computing (SAC'09)*, Hawaii, USA, March 2009
- Seongwook Youn and Dennis McLeod, "Improved Spam Filtering by Extraction of Information from Text Embedded Image E-mail," *24th Annual ACM Symposium on Applied Computing (SAC'09)*, Hawaii, USA, March 2009
- Seongwook Youn and Dennis McLeod, "Efficient Spam Email Filtering using Adaptive Ontology," *4th International Conference on Information Technology: New Generations (ITNG'07)*, Las Vegas, Nevada, April 2007 (**Selected by program committee for recommendation to Journal of Software**)
- Seongwook Youn and Dennis McLeod, "A Comparative Study for Spam Mail Classification," *2nd International Conference on Systems, Computing Sciences, and Software Engineering (SCS2'06)*, Bridgeport, Connecticut, December 2006
- Seongwook Youn and Sungchun Kim, "Dynamic Control of Banyan Network using Time Division Multiplexing with Timer." *The Institute of Electronics Engineers of Korea*, 2000.
- Seongwook Youn and Sungchun Kim, "Dynamic Control of Banyan Network using TDM with Timer," *Proceeding of HCI Conference, Korea Information Science Society*, Feb. 1999.

Miscellaneous

- Project Report, "Semantic Information Representation and Ontologies," Information Management for Multimedia Earthquake Science Data, JPL, 2005

- Project Report, “Information Management for Multimedia Earthquake Science Data,” Information Management for Multimedia Earthquake Science Data, JPL, 2004

Professional Activities

Program Committee

- IEEE International Conference on Computer and Information Technology (CIT), Bradford, UK, 2010
- The IET International Conference on Frontier Computing – Theory, Technologies and Applications, Taichung, Taiwan, 2010
- IEEE International Conference on Computational Science Engineering (CSE), Vancouver, Canada, 2009

Talks

- Spam Decisions on Gray Email using Personalized Ontologies. *24th Annual ACM Symposium on Applied Computing (SAC'09)*, Hawaii, USA, March 2009
- Improved Spam Filtering by Extraction of Information from Text Embedded Image E-mail. *24th Annual ACM Symposium on Applied Computing (SAC'09)*, Hawaii, USA, March 2009
- Efficient Spam Email Filtering using Adaptive Ontology. *4th International Conference on Information Technology: New Generations (ITNG'07)*, Las Vegas, Nevada, April 2007
- A Comparative Study for Spam Mail Classification. *2nd International Conference on Systems, Computing Sciences, and Software Engineering (SCS2'06)*, Bridgeport, Connecticut, December 2006

External Reviewers

- External reviewer for the 7th IEEE International Conference on Web Services (ICWS '09), Los Angeles, CA, USA, 2009
- External reviewer for the 3rd Asian Semantic Web Conference (ASWC '08), Bangkok, Thailand, 2008
- External reviewer for the 19th Database and Expert Systems Applications (DEXA '08), Turin, Italy, 2008
- External reviewer for the International Conference on Web Services (ICWS '08), Beijing, China, 2008
- External reviewer for the International Conference on Information Reuse and Integration (IRI '08), Las Vegas, USA, 2008
- External reviewer for the 23rd ACM Symposium on Applied Computing (SAC '08), Ceará, Brazil, 2008
- External reviewer for the Workshop on Blended Learning, Edinburgh, UK, 2007
- External reviewer for the CollaborateCom, NY, USA, 2007
- External reviewer for the 18th Database and Expert Systems Applications (DEXA '07), Regensburg, Germany, 2007
- External reviewer for the 1st IEEE International Conference on Semantic Computing (ICSC '07), Irvine, CA, USA, 2007
- External reviewer for the International Conference on Information Reuse and Integration (IRI '07), Las Vegas, USA, 2007

- External reviewer for the 22nd ACM Symposium on Applied Computing (SAC '07), Seoul, Korea, 2007
- External reviewer for the 4th International Conference on Cooperative Internet Computing (CIC '06), Hong Kong, China, 2006
- External reviewer for the 17th Database and Expert Systems Applications (DEXA '06), Krakow, Poland, 2006
- External reviewer for the 7th International Conference on Mobile Data Management (MDM '06), Nara, Japan, 2006
- External reviewer for the 21st ACM Symposium on Applied Computing (SAC '06), Dijon, France, 2006
- External reviewer for the 16th Database and Expert Systems Applications (DEXA '05), Copenhagen, Denmark, 2005
- External reviewer for the 4th International Conference on Intelligent Multimedia Computing and Networking (IMMCN '05), Salt Lake City, UT, USA, 2005
- External reviewer for the 17th International Conference of Information Resources Management Association (IRMA '05), San Diego, CA, USA, 2005
- External reviewer for the 6th International Conference on Mobile Data Management (MDM '05), Ayia Napa, Cyprus, 2005
- External reviewer for the 20th ACM Symposium on Applied Computing (SAC '05), Santa Fe, NM, USA, 2005
- External reviewer for the 31st International Conference on Very Large Data Bases (VLDB '05), Trondheim, Norway, 2005
- External reviewer for the 15th Database and Expert Systems Applications (DEXA '04), Zaragoza, Spain, 2004
- External reviewer for the 2nd International Workshop and Semantic Web and Databases (SWDB '04), Toronto, Canada, 2004
- External reviewer for the 5th International Conference on Advances in Web-Age Information Management (WAIM '04), Dalian, China, 2004
- External reviewer for the International Conference on Web Services (ICWS '04), San Diego, CA, USA, 2004
- External reviewer for the International Conference on Web-based Learning (ICWL '04), Beijing, China, 2004
- External reviewer for the 5th International Conference on Mobile Data Management (MDM '04), Berkeley, CA, USA, 2004
- External reviewer for the 19th ACM Symposium on Applied Computing (SAC '04), Nicosia, Cyprus, 2004

Programming Implementation Skills

- C, C++, PHP, JSP, HTML, Python, LISP
- SOAP, UDDI, XML, JDBC/ODBC
- XML, RDF, DAML+OIL, OWL, OWL-S
- UNIX, LINUX, WINDOWS NT/XP/Vista
- ORACLE, MySQL, PostgreSQL
- WEKA, SES/workbench, Magic, Irsim, Spice, HSPICE

Personal

Citizenship	Republic of Korea (South Korea)
Gender	Male
VISA	F-1

Language Korean (native), English (fluent)

References

Dr. Dennis McLeod

Professor, Department of Computer Science, University of Southern California,
941 Bloom Walk, Los Angeles, CA 90089-0781

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Dr. Ellis Horowitz

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Dr. Aiichiro Nakano

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& Materials Science, University of Southern California, 3651 Watt Way, VHE 610
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Dr. Ulrich Neumann

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Prof. Larry Pryor

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