

**Contact
Information**

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Works

- Postdoctoral Fellow (April 2010 - Present)
 Dept. of Computing Science, University of Alberta
 Supervisor: Dr. Denilson Barbosa
- Research Assistant (May 2009 – October 2010, March 2006 - February 2007)
 Database Systems Laboratory, The Catholic University of Korea
- Technical Research Personnel (March 2007 – May 2009)
 Korean Military Service & The Catholic University of Korea
- Teaching Assistant (March 2004 – February 2006, March 2007 – August 2008)
 Database, File Processing, Data Structures, Problem Solving, Automata Theory, Data Mining,
 Artificial Intelligence, Electronic Commerce, Information System Analysis and Design,
 Operating Systems, Unix Programming, Discrete Mathematics
- Founder and Owner (July 2003 - March 2007)
 LEEZHOME Pvt. Ltd., Web based office supporting applications

**Regular
Education**

- Ph. D. in Computer Science and Engineering (March 2006 - February 2010)
 Dissertation: A Blog Search Engine Reflecting Bloggers' Posting Habits
 Advisor: Dr. Byung-Yeon Hwang / GPA: 4.46/4.5
- Master in Computer Science and Engineering (March 2004 - February 2006)
 Thesis: A Path Combining System of XML Documents based on RDBMS
 Advisor: Dr. Byung-Yeon Hwang / GPA: 4.21/4.5
- B. Sci. in Molecular Biology (1st Major) & B. A. in Korean History (2nd Major)
 (March 1998 - February 2004)

at The Catholic University of Korea

**Additional
Trainings**

- English as a Second Language (January 2011 - February 2011)
 Faculty of Extension, University of Alberta
- English Language and Culture Program (July 2005)
 Simon Fraser University
- Intensive English Program Level 5 (June 2004 - July 2004)
 Institute of Foreign Language Education, The Catholic University of Korea

**Scholarships
and
Awards**

- Outstanding Presentation Award (January 2008)
The 7th International Conference on Applications and Principles of Information Science, Auckland, New Zealand
- Science & Technology Graduated Scholarship (September 2007 - August 2008)
Korea Science and Engineering Foundation, Government of South Korea
- Academic Excellent Scholarship (Spring 2007), The Catholic University of Korea
- Academic Excellent Scholarship (Fall 2005), The Catholic University of Korea
- Scholarship for Oversea Training (Summer 2005), The Catholic University of Korea

**Other
Experiences**

- Recorded in Marquis Who's Who in the world 26th-28th edition (2009 - 2011)
- Vice Chairman (2007)
Student Branch at the Catholic University of Korea, IEEE Seoul Section
- Vice Principal and Teacher (2002)
Sunday school, Seobu Catholic Church, Korea
- Head of Planning Department (2000)
Student Association, Department of Life Science, The Catholic University of Korea

Projects

- Developing a Blog Search Engine with Consideration of Social Media Environment (May 2009 - April 2010)
Korea Research Foundation
- Developing an Efficient XML Document Management System based on Relational DBMS (August 2007 - July 2008)
Korea Research Foundation
- Developing a Stable Recovery Method for Mobility of Mobile Host (June 2006 - May 2007)
Korea Sanhak Foundation
- Developing a Rule Engine (May 2006 - April 2007)
Ministry of Information and Communication
- Developing a Legal Information Service System for Land Usage Regulations (October 2005 - December 2005)
Korea Research Institute for Human Settlement

Publications

- Bumsuk Lee and Byung-Yeon Hwang, "Analysis of Posting Preferences and Prediction of Update Probability on Blogs," Journal of Korean Institute of Information Scientist and Engineers: Database, Vol. 37, No. 5, Korean Institute of Information Scientist and Engineers, pp. 258-266, October 2010.
- Bumsuk Lee and Byung-Yeon Hwang, "k-Bitmap Clustering Method for XML Data based on Relational DBMS," Journal of Korea Information Processing Society, Vol. 16, No. 6, Division D, Korea Information Processing Society, pp. 845-450, December 2009.
- Bumsuk Lee and Byung-Yeon Hwang, "An Efficient Method Predicting Update Probability on Blogs," In Proceedings of the 2nd International Conference on Engineering Mechanics, Structures and Engineering Geology(EMSESEG'09), Rodos Island, Greece, pp. 208-213, July, 2009. ([included in 27-best papers](#))
- Bum-Suk Lee and Byung-Yeon Hwang, "Two-step Indexing Method for XML data," In Proceedings of the 31st KIPS Spring Conference, Vol. 16, No. 1, Busan, Korea, April 2009.
- Bum-Suk Lee, Byung-Yeon Hwang, "Implementation of Map Service based on Splitting Method of GeoRSS," Journal of Korean Institute of Information Scientist and Engineers: Computing Practices and Letters, Vol. 14, No. 7, Korean Institute of Information Scientist and Engineers, October 2008.
- Bum-Suk Lee, Jin Woo Im, Byung-Yeon Hwang, and Du Zhang, "Design of An RSS Crawler with Adaptive Revisit Manager," In Proceeding of the 20th International Conference on Software Engineering and Knowledge Engineering, San Francisco, USA, July 2008. ([Acceptance rate: 16%](#))
- Bum-Suk Lee, Byung-Yeon Hwang, "Path Combining System of XML Documents based on Relational DBMS," Journal of Korea Multimedia Society, Vol. 11, No. 4, Korea Multimedia Society, April 2008.
- Bum-Suk Lee, Byung-Yeon Hwang, "An Indexing System for Retrieving Similar Paths in XML Documents," Journal of Korea Information Processing Society, Vol 15, No. 2, Division D, Korea Information Processing Society, April 2008.
- Bum-Suk Lee and Byung-Yeon Hwang, "A Path Clustering based on Structural Similarity in XML," In Proceeding of the 7th International Conference on Applications and Principles of Information Science, New Zealand, January 2008. ([Outstanding Presentation Awards](#))

Publications

- Bum-Suk Lee, Byung-Yeon Hwang, "A Split Technique of GeoRSS for Fast Accessing on the Web," In Proceedings of the 34th KIISE Fall Conference, Vol. 34, No. 2, Busan University, October 2007. ([Outstanding Paper](#))
- Bum-Suk Lee and Byung-Yeon Hwang, "X-Binder: Path Combining System of XML Documents Based on RDBMS," In Proceeding of the Knowledge-Based & Intelligent Engineering Systems Symposium on Agents and Multi-agent Systems - Technologies and Applications, Lecture Notes in Artificial Intelligence, Vol. 4496, Wroclaw, Poland, pp. 229-238, May 2007. ([Acceptance rate: 23.7%](#))
- Bum-Suk Lee, Eui-Chan Kim, Kyung-won Moon, Sung-Han Hong, Byung-Yeon Hwang, "Implementation of Law Service System for Land Usage Restriction," Journal of Korea Spatial Information System Society, Vol. 8, No. 3, Korea Spatial Information System Society, pp. 39-50, December 2006.
- Bum-Suk Lee, Byung-Yeon Hwang, "Path Similarity Calculation for Clustering of XML Documents," In Proceedings of the 26th KIPS Fall Conference, Vol. 13, No. 2, ChungBuk University, pp. 325~328, November 2006.
- Bum-Suk Lee, Byung-Yeon Hwang, "Design of GML Data Management System based on Elements Value," In Proceedings of the KSISS Fall Conference, Korea Science and Technology Hall, November 2006.
- Bum-Suk Lee, Byung-Yeon Hwang, "A Path Combining Strategy for Efficient Storing of XML Documents," Journal of Korea Multimedia Society, Vol. 9, No. 10, Korea Multimedia Society, pp. 1257-1265, October 2006.
- Bum-Suk Lee, Byung-Yeon Hwang, "The integration strategy of XML documents for effective storing," Journal of Natural Science, Vol. 26, The Institute of Natural Science, The Catholic University of Korea, pp. 5-15, December 2005.
- Bum-Suk Lee, Byung-Yeon Hwang, "Web Document Prediction System by using Web Server Log Mining," In Proceedings of the KIISE Fall Conference, Vol. 32, No. 2, SungSil University, November 2005.
- Bum-Suk Lee, Byung-Yeon Hwang, "An Efficient Path Combining Strategy of XML Document," In Proceedings of the 23rd KIPS Spring Conference, Vol. 12, No. 1, SangMyung University, May 2005.
- Bum-Suk Lee, Jae-Min Lee, Byung-Yeon Hwang, "Design and Implementation of XML Document Generator with Similar Structure," In Proceedings of the 31st KIISE Fall Conference, Vol. 31, No. 2, Seoul National University, October 2004.

References

- (Supervisor) Prof. Denilson Barbosa, Department of Computing Science, University of Alberta, denilson@ualberta.ca, 1-780-492-9920
- Anna Duguay, Faculty of Extension, University of Alberta, aduguay@ualberta.ca, 1-780-460-8095
- Prof. Byung-Yeon Hwang, Department of Computer Science and Engineering, The Catholic University of Korea. byhwang@catholic.ac.kr 82-2-2164-4363
- Prof. Kyeongmo Park, Department of Computer Science and Engineering, The Catholic University of Korea. kpark@catholic.ac.kr 82-2-2164-4365
- Prof. Sanguk Noh, Department of Computer Science and Engineering, The Catholic University of Korea. sunoh@catholic.ac.kr 82-2-2164-4579
- Prof. Jung-Jin Yang, Department of Computer Science and Engineering, The Catholic University of Korea. jungjin@catholic.ac.kr 82-2-2164-4377