

Weimin He

Computing and New Media Technologies
University of Wisconsin-Stevens Point
2100 Main Street
Stevens Point, WI 54481

Office: SCI B225
Phone: (715) 346-4409
Fax: (715) 346-4260
E-mail: whe@uwsp.edu

EDUCATION

Ph.D.	Computer Science, University of Texas at Arlington	2008
M.S.	Computer Science, Yunnan University , China	2000
B.S.	Computer Science, Yunnan University , China	1997

APPOINTMENTS

- 08/2020 - Present Professor, Department of Computing and New Media Technologies, University of Wisconsin-Stevens Point
- 08/2015 - 08/2020 Associate Professor, Department of Computing and New Media Technologies, University of Wisconsin-Stevens Point
- 08/2009 - 08/2015 Assistant Professor, Department of Computing and New Media Technologies, University of Wisconsin-Stevens Point
- 01/2009 - 05/2009 Adjunct Assistant Professor, Department of Computer Science, St. Cloud State University
- 01/2008 - 12/2008 Assistant Instructor, Department of Computer Science and Engineering, University of Texas at Arlington

TEACHING

- Courses Taught/Developed
 - CIS 101 Introduction to Computing (Online)
 - CNMT 101 Introduction to Computing and Programming
 - CIS 102 Spreadsheet in Microsoft Excel (Online)
 - CIS 110 Object-Oriented Programming
 - CNMT110 Object-Oriented Programming
 - CIS 120 Data Structures and Algorithms
 - CIS 210 Database Design and Implementation
 - CIS 340 Advanced Techniques in Application Development
 - CIS 345 Introduction to XML
 - CIS 345 Hot Topics in .NET Programming

- CIS 345 Python Programming
- CIS 345 NoSQL Databases
- CIS 397 Internship in Computing
- CIS 499 Special Work
- APC 360 Database Management I (Online)
- APC 410 Database Management II (Online)
- HIMT 375 Database Structures and Management Systems (Online)
- MSDS 715 Data Warehousing (Online)
- CSCI 169 Computers in Society (St. Cloud State University)
- CSCI 200 Elements of Computing (St. Cloud State University)
- CSCI 330 Programming Language Concepts (St. Cloud State University)
- CSE 3302 Programming Languages (University of Texas at Arlington)
- Conference Attendance
 - APC Program All Faculty Meeting, July, 2023
 - The 27th Annual Teaching Conference, UWSP, January, 2023
 - The 26th Annual Teaching Conference, UWSP, January, 2022
 - Virtual Global Conference on Sustainability in Higher Education, October, 2021
 - HIMT and APC Faculty Annual Symposium, Madison, May 2021
 - The 25th Annual Teaching Conference, UWSP, January, 2021
 - The 24th Annual Teaching Conference, UWSP, January, 2020
 - APC Faculty Annual Symposium, Madison, June, 2019
 - The 21th Annual Teaching Conference, UWSP, January, 2019
 - APC Faculty Annual Symposium, Madison, May, 2018
 - Open Data Science Conference, Boston, May, 2018
 - Central Wisconsin Digital and Social Media Conference, UWSP, April , 2018
 - The 20th Annual Teaching Conference, UWSP, January, 2018
 - Analytics Think Tank Seminar Series, Fall 2017 - Spring 2018
 - HIMT Faculty Annual Symposium, Madison, May, 2017
 - HIMT Faculty Annual Symposium, Madison, May, 2016
 - The 18th Annual Teaching Conference, UWSP, January, 2016
 - Digital Learning Jumpstart Conference, UWSP, August, 2015
 - HIMT Faculty Annual Symposium, Madison, May, 2015
 - The 18th Annual Teaching Conference, UWSP, January, 2015
 - HIMT Faculty Annual Symposium, Madison, May, 2014

- The 18th Annual Teaching Conference, UWSP, January, 2014
- The 17th Annual Teaching Conference, UWSP, January, 2013
- The 6th Annual Critical Thinking Conference, UWSP, October, 2012
- The 16th Annual Teaching Conference, UWSP, January, 2012
- The 5th Annual Critical Thinking Conference, UWSP, October, 2011
- Women & Science Opening Workshop for New STEM Educators, September, 2011
- Teaching Assessment Academy Workshop, UWSP, April, 2011
- The 15th Annual Teaching Conference, UWSP, January, 2011
- The 4th Annual Critical Thinking Conference, UWSP, October, 2010
- Women & Science Opening Workshop for New STEM Educators, September, 2010
- The 14th Annual Teaching Conference, UWSP, January, 2010
- The 3rd Annual Critical Thinking Conference, UWSP, October, 2009
- Women & Science Opening Workshop for New STEM Educators, September, 2009

RESEARCH INTERESTS

- XML Data Management
- Information Retrieval
- Big Data Management

PUBLICATIONS

PAPERS IN REFEREED JOURNALS

- [JPCS20] Teng Lv, Ping Yan, Hongwu Yuan, and **Weimin He**, “Spam Filter Based on Naive Bayesian Classifier ,” in *International Journal of Physics: Conference Series*, **JPCS 2020**, 1575 (2020) 012054.
- [IJDIM19] **Weimin He**, Teng Lv, and Ping Yan, “Effective Evaluation of XML Queries in a Visual Environment ,” in *International Journal of Digital Information Management*, **IJDIM 2019**, Volume 17, Number 3, 2019.
- [IJESM17] **Weimin He**, Teng Lv, Ping Yan, and Aaron Salisbury, “LuceneX: A Search Engine For XML Data On Top Of Apache Lucene,” in *International Journal of Engineering, Sciences, and Management*, **IJESM 2017**, Volume 7, Number 2, 2017.
- [IAJIT17] Ping Yan, Teng Lv, and **Weimin He**, “Mapping XML to Inverted Indexed Circular Linked Lists,” in *International Arab Journal of Information Technology*, **IAJIT 2017**, Volume 14, Number 3, 2017.
- [IJDTA16] Ping Yan, Teng Lv, and **Weimin He**, “On Uncertain Probabilistic Data Modeling,” in *International Journal of Database Theory and Application*, **IJDTA 2016**, Volume 9, Number 12, 2016.
- [CMNT14] Ping Yan, Teng Lv, and **Weimin He**, “Probabilistic XML Functional Dependencies based on Possible World Model,” in *International Journal of Computer Modelling and New Technologies*, **CMNT 2014**, Volume 18, Number 10, 2014.

- [IJCIS13] Ping Yan, Teng Lv, **Weimin He** and Xiuzhen Wang, “Functional Dependency of Slight XML Variation Datasets,” in *International Journal of Computational Information Systems*, **IJCIS 2013**, Volume 9, Number 5, 2013.
- [IJNT11] Teng Lv, **Weimin He** and Ping Yan, “Synchronization Control of Delayed Cohen-Grossberg Neural Networks with Diffusion Terms,” in *International Journal of Networking Technology*, **IJNT 2011**, Volume 2, Number 4, 2011.
- [IJDIM11] **Weimin He** and Teng Lv, “Querying and Ranking XML Documents Based on Data Synopses,” in *International Journal of Digital Information Management*, **IJDIM 2011**, Volume 9, Number 5, 2011.
- [IJCIS11] Ping Yan, Teng Lv, Jingsheng Lei, and **Weimin He**, “Synchronization of Fuzzy High-order Cohen-Grossberg Neural Networks with Reaction-diffusion Term and Time-varying,” in *International Journal of Computational Information Systems*, **IJCIS 2011**, Volume 7, Number 11, 2011.
- [IJCSE08] **Weimin He** and Leonidas Fegaras, “Answering XPath Queries with Search Predicates in Structured P2P Networks,” in *International Journal of Computer Systems Science and Engineering*, **IJCSE**, Volume 23, Number 2, 2008.
- [JCRD99] **Weimin He**, Tong Li, Jian Liu and Zhao Jin, “A Parallel Transformation Technology Based on Hierarchical Decomposition in Interactive Environments,” in *Journal of Computer Research and Development*, **JCRD**, Volume 36, Number 6, 1999. (In Chinese)
- [JCRD99] **Weimin He** and Tong Li, “A Software Process Model Based on Recognition,” in *Journal of Computer Applications and Research*, **JCAR**, Volume 16, Number 11, 1999. (In Chinese)

PAPERS IN REFEREED CONFERENCES AND WORKSHOPS

- [ICAA21] Teng Lv, Ping Yan, Hongwu Yuan, and **Weimin He**, “Linked List Storage for JSON Data,” in Proceedings of 2021 *International Conference on Intelligent Computing, Automation and Applications*, **ICAA 2021**, Nanjing, China, June, 2021.
- [ICAA21] Teng Lv, Ping Yan, Hongwu Yuan, and **Weimin He**, “Experiment Research on Spam Filter Classifier Based on Naive Bayesian Algorithm,” in Proceedings of 2021 *International Conference on Intelligent Computing, Automation and Applications*, **ICAA 2021**, Nanjing, China, June, 2021.
- [ISAI20] Teng Lv, Ping Yan, **Weimin He**, and Tao Wang, “On Approximate Querying Large-Scale JSON Data,” in Proceedings of 5th *International Conference on Information System and Artificial Intelligence*, **ISAI 2020**, Hangzhou, China, May, 2020.
- [ISAI19] Teng Lv, Ping Yan, and **Weimin He**, “On Massive JSON Data Model and Schema,” in Proceedings of 4th *International Conference on Information System and Artificial Intelligence*, **ISAI 2019**, Changsha, China, May, 2019.
- [ISAI18] Teng Lv, Ping Yan, and **Weimin He**, “Survey on JSON data modelling,” in Proceedings of 3rd *International Conference on Information System and Artificial Intelligence*, **ISAI 2018**, Suzhou, China, June, 2018.

- [CSIT13] Ping Yan, Teng Lv, **Weimin He**, and Xiuzhen Wang, “Functional Dependencies and Lossless Decompositions of Uncertain XML Datasets,” in Proceedings of International Conference on Computer Science and Information Technology, **CSIT 2013**, Kunming, China, September, 2013, Advances in Intelligent Systems and Computing, Springer, Volume 255, pp. 777-783, 2014
- [ICCIS13] **Weimin He**, Teng Lv, Matthew Meis, and Ping Yan, “Visual Evaluation of XPath Queries,” in Proceedings of 5th *IEEE International Conference on Computational and Information Sciences*, **ICCIS 2013**, Shiyang, China, June, 2013.
- [ICCIS12] **Weimin He**, Matthew Meis, Teng Lv, and Ping Yan, “VXPath: A Visual XPath Query Evaluator,” in Proceedings of 4th *IEEE International Conference on Computational and Information Sciences*, **ICCIS 2012**, Chongqing, China, August, 2012.
- [XMLDM12] Teng Lv, **Weimin He** and Ping Yan, “Uncertain XML Functional Dependencies Based on Tree Tuple Models ,” in Proceedings of 4th *International Workshop on XML Data Management*, **XMLDM 2012**, Harbin, China, August, 2012, **Lecture Notes in Computer Science** 7419 Springer 2012.
- [ICADIWT11] **Weimin He** and Teng Lv, “Extending Vector Space Model for XML Ranking,” in Proceedings of 4th *IEEE International Conference on the Applications of Digital Information and Web Technologies*, **ICADIWT 2011**, Stevens Point, USA, August, 2011.
- [ICADIWT11] Teng Lv, **Weimin He** and Ping Yan, “Exponential Synchronization of Cohen-Grossberg Neural Networks with Diffusion Terms and Delays,” in Proceedings of 4th *IEEE International Conference on the Applications of Digital Information and Web Technologies*, **ICADIWT 2011**, Stevens Point, USA, August, 2011.
- [ICCEE10] **Weimin He** and Teng Lv, “Answering Tag-Term Keyword Queries over XML Documents in DHT Networks,” in Proceedings of 3rd *International Conference on Computer and Electrical Engineering*, **ICCEE 2010**, Chengdu, China, November, 2010.
- [ICCEE10] Teng Lv, **Weimin He** and Ping Yan, “A Schema-Based Method of Summarizing XML Documents,” in Proceedings of 3rd *International Conference on Computer and Electrical Engineering*, **ICCEE 2010**, Chengdu, China, November, 2010.
- [ICCSIT10] **Weimin He** and Teng Lv, “Bloom Filter-Based Keyword Search Over XML Data in Structured Peer-to-Peer Systems,” in Proceedings of 3rd *IEEE International Conference on Computer Science and Information Technology*, **ICCSIT 2010**, Chengdu, China, July, 2010.
- [ICCSIT10] Teng Lv, **Weimin He** and Ping Yan, “A Survey of Modeling Uncertain Data,” in Proceedings of 3rd *IEEE International Conference on Computer Science and Information Technology*, **ICCSIT 2010**, Chengdu, China, July, 2010.
- [DASFAA08] **Weimin He** and Leonidas Fegaras, “Approximate XML Query Answers in DHT-Based P2P Networks,” in Proceedings of 13th *International Conference on Database Systems for Advanced Applications*, **DASFAA 2008**, New Delhi, India, March, 2008, **Lecture Notes in Computer Science** 4947 Springer 2008.

- [DEXA07] **Weimin He**, Leonidas Fegaras and David Levine, “Locating and Ranking XML Documents Based on Content and Structure Synopses,” in Proceedings of 18th *International Conference on Database and Expert Systems Applications*, **DEXA 2007**, Regensburg, Germany, September, 2007, **Lecture Notes in Computer Science** 4653 Springer 2007.
- [WebDB07] **Weimin He**, Leonidas Fegaras, and David Levine, “Locating XML Documents Using Content and Structure Synopses,” in Proceedings of 10th *International Workshop on the Web and Databases*, **WebDB 2007**, in conjunction with **SIGMOD 2007**, Beijing, China, June, 2007. (Accepted)
- [BNCOD07] **Weimin He**, Leonidas Fegaras, and David Levine, “Indexing and Searching XML Documents Based on Content and Structure Synopses,” in Proceedings of 24th *British National Conference on Databases*, **BNCOD 2007**, Glasgow, UK, July, 2007, **Lecture Notes in Computer Science** 4587 Springer 2007.
- [DBISP2P06] Leonidas Fegaras, **Weimin He**, Gautam Das, and David Levine, “XML Query Routing in Structured P2P networks,” in Proceedings of 4th *International Workshop on Databases, Information Systems, and Peer-to-Peer Computing*, **DBISP2P 2006**, in conjunction with **VLDB 2006**, Seoul, Korea, September, 2006, **Lecture Notes in Computer Science** 4125 Springer 2007.

RESEARCH PRESENTATIONS

- [ICCIS13] “Visual Evaluation of XPath Queries,” in **ICCIS 2013**, Shiyang, China, June, 2013.
- [ICCIS12] “VXPath: A Visual XPath Query Evaluator,” in **ICCIS 2012**, Chongqing, China, August, 2012.
- [ICADIWT11] “Extending Vector Space Model for XML Ranking,” in **ICADIWT 2011**, Stevens Point, USA, August, 2011.
- [ICCSIT10] “Bloom Filter-Based Keyword Search Over XML Data in Structured Peer-to-Peer Systems,” in **ICCSIT 2010**, Chengdu, China, July, 2010.
- [ICCSIT10] “A Survey of Modeling Uncertain Data,” in **ICCSIT 2010**, Chengdu, China, July, 2010.
- [DASFAA08] “Approximate XML Query Answers in DHT-Based P2P Networks”, in **DASFAA 2008**, New Delhi, India, March, 2008.
- [DEXA07] “Locating and Ranking XML Documents Based on Content and Structure Synopses”, in **DEXA 2007**, Regensburg, Germany, September, 2007.
- [DBISP2P06] “XML Query Routing in Structured P2P networks”, in **DBISP2P 2006** in conjunction with **VLDB 2006**, Seoul, Korea, September, 2006.

GRANT APPLICATIONS

- Educating Future Computing and Information Technology Professionals through an Online Multi-institutional Degree-completion Program, National Science Foundation, 2018 (Not Funded)
- Undergraduate Education Initiative Grant, UWSP, 2012
- Faculty Professional Development Grant, UWSP, 2010

- Faculty Professional Development Grant, UWSP, 2009
- New Faculty Start-Up Grant, UWSP, 2009

PROFESSIONAL ACTIVITIES

- Conference Organization
 - Program Committee Chair: International Symposium on Electronic Engineering and Information Processing (ISEEIP 2012)
 - Program Committee Chair: International Conference on the Applications of Digital Information and Web Technologies (ICADIWT 2011)
 - General Chair: International Conference on Informatics, Cybernetics, and Computer Applications (ICICCA 2010)
 - General Chair: International Conference on the Business and Digital Enterprises (ICBDE 2010)
 - Session Chair: IEEE International Conference on Computer Science and Information Technology (ICCSIT 2010)
- Editorial Board
 - International Journal of Communications and Information Sciences (2010-Present)
 - International Journal of Digital Information Management (2010-Present)
 - International Journal of Computer Theory and Engineering (2014-Present)
- Technical Program Committee Member
 - International Conference on Frontiers of Information Technology (ICFIT 2018)
 - International Conference on Digital Image Processing and Biomedical Informatics (ICDIPBI 2018)
 - International Conference on Algorithms and Architectures for Parallel Processing (ICA3PP 2017)
 - International Conference on Computational and Information Sciences (ICCIS 2012, ICCIS 2013, ICCIS 2014)
 - International Conference on the Applications of Digital Information and Web Technologies (ICADIWT 2010, ICADIWT 2011)
 - International Conference on Networked Digital Technologies (NDT 2010, NDT 2011)
 - International Congress on Computer Applications and Computational Science (CACS 2010)
- Reviewer
 - International Journal of Communications and Information Sciences(JCIS)
 - International Journal of Digital Information Management (IJDIM)
 - International Journal of Computer Theory and Engineering (IJCTE)

- International Journal of Web Applications (IJWA)
- WiSys AR-WiTAG Grant Application (2018-2019)
- International Conference on Algorithms and Architectures for Parallel Processing (ICA3PP 2017)
- International Conference on Computational and Information Sciences (ICCIS 2012, ICCIS 2013, ICCIS 2014)
- International Conference on the Applications of Digital Information and Web Technologies (ICADIWT 2009, ICADIWT 2010, ICADIWT 2011)
- International Conference on Machine Learning and Computing (ICMLC 2011)
- International Conference on Networked Digital Technologies (NDT 2010, NDT 2011)
- International Congress on Computer Applications and Computational Science (CACS 2010)
- Collaborative Institutional Training Initiative
 - Completed Human Subjects Research (HSR) Training Course, May, 2018
 - Completed Social-Behavioral-Educational Researchers Training Course, May, 2018
 - Completed Social and Behavioral Responsible Conduct of Research Training Course, May, 2018
- Membership
 - Senior Member of International Association of Computer Science & Information Technology
 - Member of Upsilon Pi Epsilon

STUDENT RESEARCH PROJECTS SUPERVISED

- LuceneX: A Search Engine for XML Collections
 - Student Name: Aaron Salisbury
 - Project Presented at Undergraduate Research Symposium, COLS, UWSP, 2015
- XGoogle: A Search Engine for XML Data
 - Student Name: Kevin Siems
 - Project Presented at Undergraduate Research Symposium, COLS, UWSP, 2013
- VXPATh: A Visual XPath Query Evaluator
 - Student Name: Matthew Meis
 - Funding Source: Undergraduate Education Initiative, UWSP, 2012
 - Project Presented at Undergraduate Research Symposium, COLS, UWSP, 2012

SERVICES

- University Level
 - Member of University Department Review Subcommittee (08/2011-08/2013, 08/2015-08/2017)
 - Member of University Technology Committee (08/2010-08/2011)
 - Student Marshal for the Winter Commencement, 2009
 - Faculty Marshal for the Spring Commencement, 2019
- College Level
 - School Handbook Revision Committee (2021)
 - Member of Dean’s Advisory Committee (2009, 2010)
 - Member of Dean’s Faculty Advisory Council (2015, 2016, 2017)
- Department Level
 - Academic Director of Applied Computing Program (04/2016-12/2019)
 - * Working as the academic director from Spring 2016, initiated, planned, and developed a new degree-completion online collaborative program - Applied Computing program
 - * Developed and has been teaching two Applied Computing courses - APC 360 and APC 410
 - * Attended quarterly AD meetings and monthly teleconferences since the program started
 - Member of Personnel Committee(08/2015-Present)
 - Member of Curriculum Committee(08/2010-Present)
 - Member of Nominating Committee (2014, 2015, 2016, 2017, 2020, 2021, 2022, 2024)
 - Member of Marketing Committee (08/2010-08/2011)
 - Member of Library Subcommittee (08/2011-08/2014)
 - Member of Assessment Subcommittee (2014, 2017)
 - Member of Nominating Committee (Spring 2020, Spring 2021, Spring 2022, Spring 2024)
 - Chair of Department Handbook Committee (Spring 2021)
 - Chair of Merit Allocation Committee (Spring 2023)
 - Chair of Personnel Committee(08/2018-08/2019, 08/2022/-08/2023, 08/2024-08/2025)
 - Chair of Search and Screen Committee for AI/ML Position (2024)
 - Chair of Search and Screen Committee for Data Analytics Position (2016, 2017)
 - Chair of Search and Screen Committee for Web Development Position (2014, 2015, 2016)
 - Member of Search and Screen Committee for Software Development Position(2013, 2014, 2015)
 - Member of Search and Screen Committee for Multimedia Position (2015)
 - Member of Student Award Committee in CNMT Department (2010, 2014, 2015, 2016, 2019, 2020, 2021, 2022)

- Department Library Representative (2011, 2012, 2013, 2014)
- Advisor for Association of Information Technology Professionals (09/2014-09/2015)
- Services on View Point Day (3 sessions for 2009-2010, 3 sessions for 2010-2011, 2 sessions for 2011-2012, 2 sessions for 2012-2013, 1 session for 2013-2014, 3 sessions for 2018-2019, 2 sessions for 2019-2020, 2 sessions for 2020-2021, 1 session for 2021-2022, 1 session for 2022-2023, 1 session for 2023-2024)