

Zhonghui WANG

(Assistant Professor)

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Department of Computer Science
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RESEARCH INTERESTS

- Wireless visual sensor networks, internet of things, wireless sensor network, cloud computing, big data, distributed computing and AI.

EDUCATION

University of Mississippi, University, MS, USA	08/2016-12/2021
Major: Computing Science and Information	
Degree: Doctor of Philosophy (GPA: 3.95)	
Dissertation: Cross-Layer Optimization on Wireless Visual Sensor Networks for 3D Indoor Monitoring: A Top-Down Approach	
University of Mississippi, University, MS, USA	08/2013-05/2016
Major: Computer Science and Information	
Degree: Master of Engineering (GPA: 3.93)	
Thesis: Obstacle-Aware Wireless Video Sensor Network Deployment for 3D Indoor Space Monitoring	
Harbin Sport University, Harbin, China	08/2002-07/2006
Major: Exercise Science	
Degree: Bachelor of Education	

PROFESSIONAL EXPERIENCES

Assistant Professor , Computer Science, Louisiana State University Shreveport, Shreveport, LA, USA	08/2022-present
– Lecture on Intro. Programming (CSC120) – Lecture on Intro. Object-Oriented Programming (CSC145) – Lecture on Intro. Networking I (CSC151) – Lecture on Intro. Networking II (CSC152)	

- Lecture on Computer Networks (CSC430/630)
- Lecture on Rapid Application Development (CSC460/660)
- Lecture on Operating Systems (CSC490/690)
- Lecture on Network & Computer Security (CSC438/638)

Assistant Professor, Mathematics, Computer and Information Science,
Mississippi Valley State University, Itta Bena, MS, USA

01/2022-05/2022

- Lecturing on Java Programming (CS 221)
- Lecturing on Operating Systems (CS 371)
- Lecturing on Network Defense (CS 453)

2022 Spring

Assistant Professor, Mathematics, Computer and Information Science,
Mississippi Valley State University, Itta Bena, MS, USA

08/2021-12/2021

- Lecturing on Introduction to Computer Networks (CS 422)
- Lecturing on Introduction to Algorithms (CS 323)
- Lecturing on Database Management (CS351)

2021 Fall

Graduate Instructor, Computer and Information Science, University of
Mississippi, University, MS, USA

01/2019-05/2021

- Lecturing on Introduction to Computer Networks (CSCI 361)
- Teaching Evaluation Score: 4

2019 Spring

Guest lecture, “Wireless Visual Sensor Networks: Applications, Challenges, and
Recent Advances” Computer and Information Science, University of Mississippi,
University, MS, USA

02/18/2019

- Lecturing on Advanced Computer Networking (CSCI 561)

Substitute Instructor, Computer and Information Science, University of
Mississippi, University, MS, USA

08/2018-09/2018

- Lecturing on Introduction to Operating System (CSCI 423)

Teaching Assistant, Computer and Information Science, University of
Mississippi, University, MS, USA

05/2014-05/2018

- Computer Science I CSCI 111 (2014 Spring, 2015 Spring), Computer
Science III CSCI 211 (2015 Fall), Programming for Engineering and
Science CSCI 251 (2016 Spring), Introduction to Computer Networks
CSCI 361 (2017 Spring, 2018 Spring), Introduction to Operating Systems
CSCI 423 (2017 Fall, 2018 Fall), Introduction to Database Systems CSCI
475 (2017 Spring)

Conference Paper Reviewer, IETC

Since 2025

AWARDS

- Outstanding Faculty Award in Teaching on 2025
- Summer Research Assistantship Award on 2021
- Summer Research Assistantship Award on 2020
- School of Engineering Graduate Achievement Award on 2019
- Summer Research Assistantship Award on 2019
- Summer Research Assistantship Award on 2018
- Summer Research Assistantship Award on 2017
- SAP Scholarship Award on 2015
- Member, Upsilon Pi Epsilon, since 2014

ACTIVITIES

Member, Association for Computing Machines, Student Chapter

EXTERNAL TALKS

- **Conference Presentation**, “On WWSN Depolyment and Scheduling for 3D Indoor Monitoring: A Cross-Layer Design Approach,” In *ICNC 25*, pp. 763-767, USA, February 2025
- **Conference Presentation**, “Wireless Visual Sensor Networks: Applications, Challenges, and Recent Advances,” In *IEEE SoutheastCon*, 8 pages, Huntsville AL, USA, April 2019.
- **Conference Presentation**, “On 2-Angular-Coverage in Wireless Visual Sensor Network Deployment for 3D Indoor Monitoring,”. In *ACM SouthEast Conference*, pp. 145-148, Kennesaw GA, USA, April 2017

PUBLICATIONS

Conference Papers

1. Nahar, Sharmin, Md Mashfiquer Rahman, Kailash Dhakal, Md Mostafijur Rahman, Zhonghui John Wang, and Subhajit Chakrabarty. "Depression Severity Using NHANES Data." In *2026 IEEE/ACIS 24th International Conference on Software Engineering Research, Management and Applications (SERA)*, pp. 386-391. IEEE, 2026.
2. Z. Wang, F. Wang, K. Sabahein, “On WWSN Depolyment and Scheduling for 3D Indoor Monitoring: A Cross-Layer Design Approach”. In *ICNC 25*, pp. 763-767, USA, February 2025

3. S. Nahar, Z. Wang, X. Jin, S. Chakrabarty, "Leveraging Selected Lifestyle Factors from NHANES Data for Chronic Heart Disease Risk Prediction". The paper has been accepted by *IETC 2025*, USA, April, 2025.
4. K. Sabahein, Z. Wang, F. Wang, "An Actor-Critic Approach for Resource Allocation in Energy Harvesting-Powered Wireless Body Area Network". In *ICNC 24*, USA, February 2024
5. Z. Wang, F. Wang, T. Brown, J. Xue and J. Zhang, "Traffic Aware Wireless Visual Sensor Network Deployment for 3D Indoor Monitoring,". In *IEEE ICC*, pp. 1-6, China, May 2019.
6. Z. Wang, F. Wang, "Wireless Visual Sensor Networks: Applications, Challenges, and Recent Advances," In *IEEE SoutheastCon*, 8 pages, Huntsville AL, USA, April 2019.
7. T. Brown, Z. Wang, T. Shan, F. Wang, and J. Xue, "Obstacle-Aware Wireless Video Sensor Network Deployment for 3D Indoor Monitoring,". In *IEEE GLOBECOM*, pp. 1-6, Singapore, December, 2017
8. Brown, T., Wang, Z., Shan, T., Wang, F., & Xue, J. (2017, April). Obstacle and connectivity aware wireless video sensor deployment for 3d indoor monitoring. In *Proceedings of the Second International Conference on Internet-of-Things Design and Implementation* (pp. 305-306).
9. Z. Wang, T. Brown, T. Shan, F. Wang, and J. Xue, "On 2-Angular-Coverage in Wireless Visual Sensor Network Deployment for 3D Indoor Monitoring,". In *ACM SouthEast Conference*, pp. 145-148, Kennesaw GA, USA, April 2017
10. T. Brown, Z. Wang, T. Shan, F. Wang, and J. Xue, "On wireless video sensor network deployment for 3D indoor space coverage,". In *IEEE SoutheastCon*, pp. 1-8, Norfolk VA, USA, March 2016.

Journal Paper

1. Jin, X., Wang, Z., Zhao, X., Wen, Y., & Qin, C. (2026). Predicting Body mass index classification from physical fitness indicators using machine learning in South Chinese college students from 2013 to 2025. *BMC Public Health*.
2. Wang, Z., Jin, X., Zhao, Q., Wang, F., & Sabahein, K. (2025). On WWSN deployment, load balancing and scheduling for 3D indoor monitoring: A cross-layer design approach. *Ad Hoc Networks*, 104024.
3. Jin, X., Wang, Z., & Rush-Kolodzey, J. (2025). Effect of Physical Activity on Obesity in Older American Adults over Fourteen Years. *European Journal of Sport Sciences*, 4(5), 1-9.
4. Jin, X., Wang, Z., & Loftin, M. (2024). Assessment and Prediction of Energy Expenditure: One-Mile Walks and Runs Among African American. *European Journal of Sport Sciences*, 3(1), 16-22, 2024.
5. J. Zhang, J. Tang, Z. Wang, F. Wang and G. Yu, "Load-Balancing Rendezvous Approach for Mobility-Enabled Adaptive Energy-Efficient Data Collection in WSNs," *KSII Transactions on Internet and Information Systems*, vol. 14, no. 3, pp. 1204-1227, 2020.

Posters

1. Gabrielle Foster, Xi Jin, Jill Rush-Kolodzey, Qingsong Zhao, Zhonghui Wang. "Comparing AI and Traditional Approaches to Identify Lifestyle Contributors to Obesity in Older Adults" Poster at the annual meeting of the American College of Sports Medicine, May, 2026.
2. S. Nahar, Z. Wang, X. Jin, S. Chakrabarty, Empowering Early Diagnosis of Chronic Heart Disease with Machine Learning and Lifestyle Analysis. Poster at the 10th LSUS Regional Student Scholars Forum, April, 2025.

3. T. Anondi, Z. Wang, X. Jin, The Role of Physical Activity In Obesity Prediction: Insights From Machine Learning Models. Poster at the annual meeting of the American College of Sports Medicine, May, 2025.
4. X. Jin, J. Rush, Q. Zhao, Z. Wang, Using Oaxaca-Blinder Decomposition to Asses the Role of Lifestyle Behaviors in Obesity Increase. Poster at the annual meeting of the American College of Sports Medicine, May, 2025.
5. X. Jin, J. Rush, Z. Wang, The Effect of Physical Activity on Obesity among Older Adults: Findings from NHANES 2005-2018. Poster at the annual meeting of the American College of Sports Medicine, May, 2024.
6. Qin, C., Jin, X., Wang, Z., & Wen, Y. The Secular Trend On Fitness Parameter in Chinese Male College Students from 2013 To 2021. ePoster at the annual meeting of the American College of Sports Medicine, May, 2023.
7. Z. Wang, F. Wang, T. Brown, and J. Xue, "Traffic Aware Wireless Visual Sensor Network Deployment for 3D Indoor Monitoring," NSF Broadband Wireless Access and Applications Center (*BWAC*) Workshop, Oxford, MS, April 2018
8. F. Wang, D. Wang, J. Liu and Z. Wang, "Wireless Sensor Data Collection for High-Rise Structure Health Monitoring: Design, Optimization, and Case Study", *Infrastructure Objective Resilience Workshop*, University, MS, March 2018.
9. T. Brown, Z. Wang, T. Shan, F. Wang and J. Xue, "Poster Abstract: Obstacle and Connectivity Aware Wireless Video Sensor Deployment for 3D Indoor Monitoring," *ACM/IEEE IoTDI*, Pittsburgh, PA, April 2017.
10. T. Brown, Z. Wang, T. Shan, F. Wang and J. Xue, "Obstacle-Aware Wireless Video Sensor Network Deployment for 3D Indoor Space Monitoring," *NSF Broadband Wireless Access and Applications Center (BWAC) Workshop*, Tucson, AZ, March 2016.
11. T. Brown, Z. Wang, T. Shan, F. Wang and J. Xue, "On Wireless Video Sensor Network Deployment for 3D Indoor Space Coverage," *NSF Broadband Wireless Access and Applications Center (BWAC) Workshop*, University, MS, November 2015.