

Husnu S. Narman

🏠: <http://hsnarman.github.io>
in: <http://www.linkedin.com/in/husunarman>
G: <https://bit.ly/2KQCc1x>

✉️ narman@marshall.edu
Office ☎️: (304) 696-5829

ACADEMIC EXPERIENCE

Assistant Professor: Marshall University <i>Department of Computer Sciences and Electrical Engineering</i>	Aug 2017 - Present Huntington WV, USA
Instructor: Marshall University <i>Department of Computer Sciences and Electrical Engineering</i>	Jan 2017 - May 2017 Huntington WV, USA
Postdoctoral Fellow: Clemson University <i>Department of Electrical and Computer Engineering</i>	May 2016 - Dec 2016 Clemson SC, USA

EDUCATION

Ph.D. in Computer Science <i>University of Oklahoma</i>	May 2016 Norman OK, USA
M.S. in Computer Science <i>University of Texas at San Antonio</i>	May 2011 San Antonio TX, USA
B.S. in Mathematics <i>Abant Izzet Baysal University</i>	Aug 2006 Bolu, Turkey

HONORS

Weisberg Service Award <i>College of Engineering and Computer Sciences, Marshall University</i>	2021 - 2022
Distinguished Artists and Scholars Junior Category Award <i>Marshall University</i>	2020 - 2021
Weisberg Academy of Distinguished Teachers Award <i>College of Engineering and Computer Sciences, Marshall University</i>	2020 - 2021
Outstanding Service Award <i>IEEE/ACM IoTDI</i>	2021
Nomination for Pickens Queen Teaching Award <i>Marshall University</i>	2018, 2021
Outstanding Ph.D. Student in Computer Science <i>University of Oklahoma</i>	2015 - 2016
Study Abroad Fellowship for Higher Education <i>Turkish Ministry of National Education</i>	2007 - 2016
Graduation as High Honor Student <i>Abant Izzet Baysal University</i>	2006

RESEARCH INTEREST

Smart Health: *Develop and investigate IoT products and mobile applications with machine learning algorithms to make the health system more accessible and productive by helping doctors and patients.*

Resource Allocation: *Determine scheduling models and allocations policies in Cloud and Fog Computing, IoT, and Networks with their applicable cases such as Vehicular Networks, Crowd-sourcing.*

Data Mining: *Using sentiment analysis tools to understand the user behaviors for various applications like shopping habits, chain effects.*

Advanced Learning Technologies: *Investigate usage of high-tech products such as Virtual and Augmented Reality based application with their effects in learning for K-12 and higher education.*

STEM Education: *Develop applications for K-12 and higher education to overcome difficulties to learn Math and Coding subjects.*

R&D GROUP ATTAINMENTS

Fellowship & Scholarship

- Josh Maddy (Undergraduate): NASA Undergraduate Research Fellowship for Spring 2023; *Project: The Metaphysical Exhibition An Exploration of Technology, the Arts, and Sciences: Expansion*
- Neil Loftus (Undergraduate): NASA Undergraduate Research Fellowship for Spring 2023; *Project: Detecting Birds with Real Time Image Processing for Drone Safety: Expansion*
- Neil Loftus (Undergraduate): NASA Undergraduate Research Fellowship 2022 - 2023; *Project: Detecting Birds with Real Time Image Processing for Drone Safety*
- Neil Loftus (Undergraduate): Marshall University Creative Discovery and Research Award for Summer 2022; *Project: The Cybersecurity Packet Control Simulator: The Effect of Visual Learning Tools on Retention of Information in Computer Science*
- Josh Maddy (Undergraduate): Marshall University Creative Discovery and Research Award for Summer 2022; *Project: The Metaphysical Exhibition an Exploration of Technology, the Arts, and Sciences*
- Josh Maddy (Undergraduate): Marshall University SURE Summer Research Fellowship 2022; *Project: Augmented Reality as an Aid for Physics Concepts*
- Neil Loftus (Undergraduate): Marshall University SURE Summer Research Fellowship 2022; *Project: The Cybersecurity Packet Control Simulator*
- Eric Dillion (Undergraduate): Marshall University Creative Discovery and Research Award for Spring 2022; *Project: Automatic Feedback System to Teach Cybersecurity Principles*
- Eric Shoemaker (Undergraduate): Marshall University Creative Discovery and Research Award for Summer 2021; *Project: Crowdsourcing based Community Infrastructure Management Application*
- Eric Shoemaker (Undergraduate): NASA Undergraduate Research Fellowship for Spring 2021; *Project: Community Infrastructure Management Application*
- Jarred Carter (Undergraduate): NASA Undergraduate Research Fellowship 2020 - 2021; *Project: Simulation for Trade-off Model of Fog-Cloud Computing for Space Network*
- William Coleman (Undergraduate): Marshall University SURE Summer Research Fellowship 2020; *Project: Enhancing STEM Education with Augmented Reality*
- James Farley (Undergraduate): NASA Undergraduate Research Fellowship for Spring 2020; *Project: Emotion Classification of Users in Social Media*
- Alex Canfield, Cameron Berry, Jeremy Giese, Logan Carpenter (Undergraduates): Marshall University Research Scholar Award for Spring 2019; *Project: Data Structure with Augmented Reality*
- James Farley (Undergraduate): Marshall University Creative Discovery and Research Award for Fall 2019; *Project: Emotion Classification of Users based on the Comments and Emojis in Social Media*
- Jarred Carter (Undergraduate): NASA Undergraduate Research Fellowship 2019 - 2020; *Project: Trade-off Model of Fog-Cloud Computing for Space Network*
- Caleb Kesler (Undergraduate): Marshall University Creative Discovery and Research Award for Summer 2019; *Project: Development of Story-Assisted Platform for Early Childhood for Coding*
- Alymbek Damir Uulu (Undergraduate): Marshall University SURE Summer Research Fellowship 2019; *Project: Profile Analysis on Cryptocurrency Investors and Social Engineering on Their Prices*
- Jared Lee Lewis (Undergraduate): Marshall University Creative Discovery and Research Award for Fall 2018; *Project: Automated IP Reputation Analyzer System with Machine Learning*
- Geanina Tambaliuc (Undergraduate): Marshall University SURE Summer Research Fellowship 2018; *Project: Automated IP Reputation Analyzer System*

- Alex Kacinari, Chris Murphy, Derek M Staley (Undergraduates): Marshall University Research Scholar Award for Spring 2018; *Project: Suturing Technique Simulation*
- Charlie Murphy, Michael B Branard, Steven D. Gunnels (Undergraduates): Marshall University Research Scholar Award for Spring 2018; *Project: Embedded Storybook Game*

Internship/Development

- Hwapyeong Song (Graduate): WV Department of Education Internship and Paving Academy 2020
- Neil Loftus (High School): Paving Academy 2020
- Geanina Tambaliuc (Undergraduate): WV Department of Education Internship 2019
- Anh Nguyen (Undergraduate): WV Department of Education Internship 2019
- Jake Gressang (Undergraduate): WV Department of Education Internship 2019
- Kuo Chi Fang (Graduate): WV Department of Education Internship 2018
- Ibrahim Hussein Mwinyi (Graduate): WV Department of Education Internship 2018

Publications

- High School Students: Neil Loftus, Isabella Schrader.
- Undergraduate Students: Geanina Tambaliuc, Anh Nguyen, Jared Lee Lewis, Alymbek Damir Uulu, Greg Weed, James Farley, Jarred Carter, Cameron Berry, Alex Canfield, Logan Carpenter, Jeremy Giese, William Coleman, Eric Shoemaker.
- Graduate Students: Govind Yatnalkar, Kanimozhi Kalaiichelavan, Sreehari Sreenath, Ibrahim Hussein Mwinyi, Kuo Chi Fang.

TAUGHT COURSES AND TEACHING EFFECTIVENESS

Q1	I believe that I learned in this class.
Q2	The course was well organized.
Q3	This course challenged me intellectually.
Q4	I have become more competent in this area because of this course.
Q5	The objectives of the course were well explained.
Q6	The instructor followed his/her syllabus.
Q7	The instructor gave clear explanations to clarify concepts.
Q8	The instructor was supportive in academic situations.
Q9	The instructor showed enthusiasm when teaching.
Q10	The instructor informed students of their progress.
Q11	The instructor's use of examples helped to get points across in class.
Q12	The instructor adequately explained the grading scale.
Q13	The instructor treated me fairly.
Q14	The instructor was enthusiastic about the course material.
Q15	The instructor encouraged students to ask questions.
Q16	The instructor provided me with an effective array of challenges.
Q17	The instructor carefully answered questions raised by students.
Q18	The instructor treated students with respect.
Q19	The instructor presented material in a clear manner.
Q20	The instructor used class time well.
Q21	The instructor seemed genuinely interested in wanting me to learn.
Q22	I would recommend this instructor to other students.

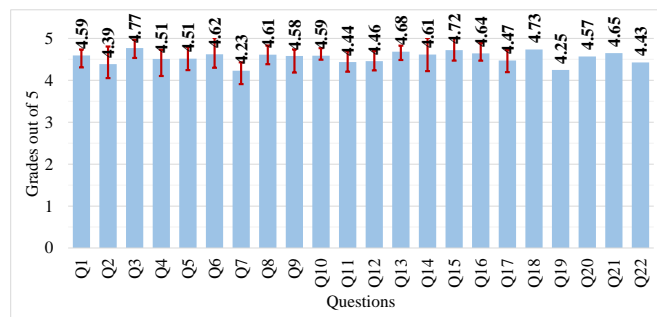


Figure 1: Each question (left table) is asked to more than 429 undergraduate and graduate students to grade from 1 to 5 in course evaluations. The figure bars show the average grades with minimum and maximum values for each question (the average is out of 5).

Table 1 shows the taught courses with student evaluation results for each course and semester. Undergraduate courses are from 1xx to 4xx, and graduate courses are from 5xx and above. Mostly, a high number of students responded the student evaluation. Figure 1 also shows the course evaluations for each question.

Table 1: *Enrollment* shows the number of registered students, *Responses* shows the number of students who answered the course evaluation; and scores show the mean score out of 4 for each course and semester.

Term	Course	Enrollment	Responses	Evaluation Score	Semester Score
Spring 2017	CS 210: Data Structures and Algorithms	12	9	3.64	3.49
	CS 215: Advanced Data Structures and Algorithms	17	11	3.22	
	CS 410: Database Engineering	23	19	3.28	
	CS 510: Database Systems	29	22	3.75	
	IS 623: Database Management	13	11	3.72	3.72
Fall 2017	CS 210: Data Structures and Algorithms	20	18	3.73	3.72
	CS 651: Cloud Computing	16	15	3.70	
Spring 2018	CS 210: Data Structures and Algorithms	13	11	3.72	3.77
	CS 510: Database Systems	10	8	3.83	
	IS 623: Database Management	27	26	3.77	
Fall 2018	CS 210: Data Structures and Algorithms	16	14	3.79	3.84
	CS 360: Automata and Formal Languages	21	16	3.76	
	CS 651: Cloud Computing	18	18	3.95	
Spring 2019	CS 120: Computer Science II (OOP-Java)	20	15	3.64	3.63
	CS 210: Data Structures and Algorithms	14	12	3.60	
	CS 681: Master Thesis	1	1	3.71	
Fall 2019	CS 120: Computer Science II (OOP-Java)	18	17	3.65	3.71
	CS 210: Data Structures and Algorithms	12	10	3.79	
	CS 681: Master Thesis	1	1	3.89	
Spring 2020	CS 120: Computer Science II (OOP-Java)	39	29	3.70	3.71
	CS 210: Data Structures and Algorithms	12	11	3.75	
	CYBR 620: Cyberwarfare	1	1	3.89	
Fall 2020	CS 210: Data Structures and Algorithms (Virtual)	15	15	3.53	3.67
	CS 210: Data Structures and Algorithms (Web)	6	4	3.62	
	CS 602: Cloud Computing (Web)	13	12	3.87	
Spring 2021	CS 210: Data Structures and Algorithms (Virtual)	27	22	3.44	3.54
	CS 510: Advanced Database Systems (Virtual)	3	3	3.75	
	CS 510: Advanced Database Systems (Web)	4	4	3.98	
	CYBR 620: Cyberwarfare (Web)	7	7	3.51	
Fall 2021	CS 210: Data Structures and Algorithms	15	14	3.68	3.66
	CS 210: Data Structures and Algorithms (Web)	14	6	3.51	
	CS 602: Cloud Computing (Web)	5	4	3.80	
Spring 2022	CS 210: Data Structures and Algorithms	19	17	3.59	3.51
	CS 210: Data Structures and Algorithms (Web)	11	6	3.20	
	CS 510: Advanced Database Systems (Web)	9	7	3.57	
	CYBR 620: Cyberwarfare (Web)	5	4	3.71	

STUDENT ADVISING

Table 2: The number of students advised in each semester.

Term	Total	Undergraduate	Graduate
Spring 2017	18	9	9
Fall 2017	35	27	8
Spring 2018	27	26	1
Fall 2018	41	41	0
Spring 2019	39	39	0
Fall 2019	39	39	0
Spring 2020	27	27	0
Fall 2020	32	30	2
Spring 2021	21	18	3
Fall 2021	36	29	7
Spring 2022	36	28	8
Fall 2022	36	29	7

Table 2 shows the number of advised students in each semester. Graduate students have not been advised between Spring 2018 and Fall 2020 due to policy changes of the Department of Computer Sciences and Electrical Engineering for advising.

SERVICES

Marshall University	Huntington WV, USA
• Organization of Computer Science Adventure Zone Summer Camp	2017 - Present
• Elected College Representative on the Athletic Committee	2019 - Present
• CS Freshman Orientation	2018 - Present
• CS Online Course Development	2018 - Present
• CS Conference Organization Committee	2018 - Present
• Computer Science (CS) Student Leadership Program Coordinator	2019 - 2020
• CS Representative on the College Outreach and Recruitment Committee	2019 - 2020
• CS Outreach Committee Chair	2017 - 2020
• CS Faculty Candidate Interviewing Committee	2017 - 2019
• Catalog Editing and Correction for BS and MS Programs in CS	2017 - 2018
• CS Project Room Management	2017 - 2018

PROFESSIONAL ACTIVITIES

Co-Lead for Training Programs **2021 - Present**
Institute for Cyber Security (ICS), Marshall University

Editorial Board **2018 - Present**
Editorial Board: Elsevier Journal of Network and Computer Applications

Summer Camp on Robotics and Cybersecurity for K-12 **2017 - Present**
Marshall University *Huntington WV, USA*

Faculty Mentor Internship Program **2018 - 2020**
WV Department of Education *Huntington WV, USA*

Virtual Conference Working Group Lead
• 2021 ACM/IEEE Conference on Internet of Things Design and Implementation

Publicity Co-Chair
• 2017 International Conference on Networking, Architecture, and Storage • 2017 International Conference on Computer Communications and Networks

Technical Program Committee
• IEEE Global Communications Conf. • IEEE Int. Conf. on Communications • Springer Ubiquitous Networking Conf. • IEEE Wireless Communications and Networking Conf. • IEEE Int. Conf. on Communications, Network, and Satellite • IEEE 5G World Forum (WF-5G) • IEEE Int. Conf. on Internet of Things and Intelligence System • Elsevier Int. Conf. on Ambient Systems, Networks and Technologies • IEEE Int. Conf. on Fog and Edge Computing • IEEE Symp. on Signal Processing and Information Technology • IEEE Int. Conf. on Signals and Systems • IEEE/ACM Int. Symp. in Cluster, Cloud, and Grid Computing • IEEE Middle East & North Africa Communications Conf. • IEEE Int. Conf. on Wireless Networks and Mobile Communications • IEEE TENCON

Journal Reviewer
• IEEE Journal on Selected Areas in Communications • IEEE Transactions on Mobile Computing • IEEE Transactions on Parallel and Distributed Systems • IEEE Transactions on Vehicular Technology • IEEE Transactions on Industrial Electronics • IEEE Transaction on Intelligent Transportation Systems • IEEE Transactions on Sustainable Computing, • ACM Transactions on Cyber-Physical Systems • ACM Transactions on Knowledge Discovery from Data • Elsevier Journal of Network and Computer Applications • Elsevier Future Generation Computer System • MDPI Sensors • Wiley Software: Practice and Experience

Membership

• IEEE Senior Member (2022 - Present) • IEEE Member (2016 - 2021) • IEEE Student Member (2014 - 2016)

VOLUNTEER ACTIVITIES

VEX IQ Robot Tournament for Middle and Elementary Schools **2019 - Present**

Marshall University

Faculty adviser for Geeks and Gadgets Club

Marshall University

Coordinator and Initiator for Community Service Leadership Program

Marshall University

Huntington WV, USA

2018 - Present

Huntington WV, USA

2019 - 2020

Huntington WV, USA

OTHER TEACHING, RESEARCH AND RECRUITMENT ACTIVITIES

- Green and White Days: CS Activity Organization (11 times)
- Helping CS Alumni Gathering (1 time)
- Summer Camp Organizations (7 times)
- Department of Education Visits (12 times)
- ABET Preparation
- Website Preparation for Outreach Activities
- Office of Technology Visits (3 times)
- High School Presentations (7 times)
- Engineering Day (1 time)
- K-12 Coding Workshops (11 times)
- St Joseph VEX IQ Preparation (28 weeks)
- STEM+M VEX IQ Preparation (14 weeks)
- Apple K-12 Workshop (2 times)
- VEX IQ Robotic Competition (2 times)
- IEEE Student Branch Chapter Registration
- Goodwill Partnership Meetings (2 times)
- Mountwest Community & Technical College Partnership Meetings (2 times)
- North Caroline State University Visit for Research Partnership

CERTIFICATION

Responsible Conduct of Research

2018 - 2020

Collaborative Institutional Training Initiative Program

Huntington WV, USA

Behavioral & Social Science Research

2018 - 2020

Collaborative Institutional Training Initiative Program

Huntington WV, USA

Independent Improving Your Online Course (IYOC)

2017

Quality Matters

Huntington WV, USA

Java SE 7

2016

Robert Half Technology

Clemson SC, USA

GRANTS

External Funded and Under Review Grant Applications

- [15] CAREER:SCH:RUI: Smart Connected Multi-sensing Tool for Early Identification Feeding and Speech Abnormalities of Children. **PI**. National Science Foundation, 2022. Amount: \$690,000 Submitted.
- [14] Detecting Birds with Real Time Image Processing for Drone Safety. **Mentor**. NASA West Virginia Undergraduate Research Fellowship, 2022. Amount: \$5,000.00, **Funded**.
- [13] Detecting Birds with Real Time Image Processing for Drone Safety: Expansion. **Mentor**. NASA Undergraduate Affiliate Fellowship Program, 2022. Amount: \$1,000.00, **Funded**.
- [12] Experiences for Teachers on Cyber Security. **Proposal Developer**. NSF/NSA GenCyber Teacher Summer Camp, 2022. Amount: \$140,000.00, **Funded**.
- [11] Exploring Theory and Design Principles (ETD): Research-Oriented Camp for K-12 in Emerging Technology (ROCKET). **Co-PI**. National Science Foundation, 2022. Amount: \$495,000 Submitted.
- [10] The Metaphysical Exhibition an Exploration of Technology, the Arts, and Sciences. **Mentor**. NASA Undergraduate Affiliate Fellowship Program, 2022. Amount: \$1,000.00, **Funded**.
- [9] Crowdsourcing Infrastructure Management System. **Mentor**. NASA Undergraduate Affiliate Fellowship Program, 2021. Amount: \$1,000.00, **Funded**.
- [8] Community Infrastructure Management Application. **Mentor**. NASA Undergraduate Affiliate Fellowship Program, 2020. Amount: \$1,000.00, **Funded**.
- [7] Development of the Pavement Preservation and Rehabilitation Academy. **Co-PI**. Wirtgen Group - John Deere Company, 2020. Amount: \$40,626.00, **Funded**.
- [6] Trade-off Model of Fog-Cloud Computing for Space Network. **Mentor**. NASA West Virginia Undergraduate Research Fellowship, 2020. Amount: \$5,000.00, **Funded**.

- [5] *Emotion Classification of Users in Social Media*. **Mentor**. NASA Undergraduate Affiliate Fellowship Program, 2019. Amount: \$1,000.00, **Funded**.
- [4] *Experiences for Teachers on Cyber Security*. **PI**. NSF/NSA GenCyber Teacher Summer Camp, 2019. Amount: \$73,000.00, **Funded**.
- [3] *Trade-off Model of Fog-Cloud Computing for Space Network*. **Mentor**. NASA West Virginia Undergraduate Research Fellowship, 2019. Amount: \$5,000.00, **Funded**.
- [2] *WV Faculty Mentor Internship Program - Calendar and Special Education Applications*. **Co-PI**. West Virginia Department of Education, 2019. Amount: \$85,116.00, **Funded**.
- [1] *WV Faculty Mentor Internship Program - Complain Management Application and Security of Applications*. **Co-PI**. West Virginia Department of Education, 2019. Amount: \$79,346.00, **Funded**.

Internal Funded Grant Applications

- [24] *Augmented Reality as an Aid for Physics Concepts*. **Mentor**. Undergraduate Summer Research Experience (SURE), Marshall University, 2022. Amount: \$4,000.00, **Funded**.
- [23] *Auto Feedback System based on Artificial Intelligence for Cybersecurity Learners*. **PI**. Faculty Summer Research, Marshall University, 2022. Amount: \$2,000.00, **Funded**.
- [22] *Automatic Feedback System to Teach Cybersecurity Principles*. **Mentor**. Undergraduate Fall Creative Discovery Scholar and Undergraduate Research Scholar Awards, Marshall University, 2022. Amount: \$1,750.00, **Funded**.
- [21] *Marshall University Presentation Center: Developing A Campus-Wide Resource to Enhance Communication Fluency Across the Curriculum*. **Co-PI**. Hedrick Program Grant for Teaching Innovation, Marshall University, 2022. Amount: \$4,985.00, **Funded**.
- [20] *The Cybersecurity Packet Control Simulator*. **Mentor**. Undergraduate Summer Research Experience (SURE), Marshall University, 2022. Amount: \$4,000.00, **Funded**.
- [19] *The Cybersecurity Packet Control Simulator: The Effect of Visual Learning Tools on Retention of Information in Computer Science*. **Mentor**. Undergraduate Summer Research and Creative Discovery, Marshall University, 2022. Amount: \$5,000.00, **Funded**.
- [18] *The Metaphysical Exhibition an Exploration of Technology, the Arts, and Sciences*. **Mentor**. Undergraduate Summer Research and Creative Discovery, Marshall University, 2022. Amount: \$5,000.00, **Funded**.
- [17] *Crowdsourcing Infrastructure Management System*. **Mentor**. Undergraduate Summer Research and Creative Discovery, Marshall University, 2021. Amount: \$5,000.00, **Funded**.
- [16] *Enhancing STEM Education with Augmented Reality*. **Mentor**. Undergraduate Summer Research Experience (SURE), Marshall University, 2020. Amount: \$3,200.00, **Funded**.
- [15] *A Smart Therapy Tool for Feeding and Speech Disorder Detection*. **PI**. John Marshall University Summer Scholars Awards, Marshall University, 2019. Amount: \$6,500.00, **Funded**.
- [14] *Artificial Intelligence and Integrated Fog-Cloud Computing based Matching Algorithm for Carpooling*. **PI**. Faculty Summer Research, Marshall University, 2019. Amount: \$2,000.00, **Funded**.
- [13] *Augmented Reality based Application for Data Structure*. **Mentor**. Undergraduate Fall Research Scholar Awards, Marshall University, 2019. Amount: \$250.00, **Funded**.
- [12] *Development of Story-Assisted Platform for Early Childhood for Coding*. **Mentor**. Undergraduate Summer Research and Creative Discovery, Marshall University, 2019. Amount: \$5,000.00, **Funded**.
- [11] *Emotion Classification of Users based on the Comments and Emojis in Social Media*. **Mentor**. Undergraduate Fall Creative Discovery Scholar and Undergraduate Research Scholar Awards, Marshall University, 2019. Amount: \$1,750.00, **Funded**.
- [10] *Profile Analysis on Cryptocurrency Investors and Social Engineering on their Prices*. **Mentor**. Undergraduate Summer Research Experience (SURE), Marshall University, 2019. Amount: \$4,000.00, **Funded**.
- [9] *Quinlan Endowment Faculty Travel*. **PI**. Quinlan Endowment Faculty Travel, Marshall University, 2019. Amount: \$500.00, **Funded**.

- [8] *Student Research and Innovation Center. Co-PI.* Cross-disciplinary Research Facilitation Grant, Marshall University, 2019. Amount: \$500.00, **Funded**.
- [7] *Automated IP Reputation Analyzer System. Mentor.* Undergraduate Summer Research Experience (SURE), Marshall University, 2018. Amount: \$4,000.00, **Funded**.
- [6] *Automated IP Reputation Analyzer System. Mentor.* Undergraduate Fall Creative Discovery Scholar and Undergraduate Research Scholar Awards, Marshall University, 2018. Amount: \$1,750.00, **Funded**.
- [5] *Game Embedded Storybook. Mentor.* Undergraduate Spring Research Scholar Awards, Marshall University, 2018. Amount: \$175.00, **Funded**.
- [4] *Placement of Electric Vehicle Charging Sections and Traffic Management. PI.* Faculty Summer Research, Marshall University, 2018. Amount: \$2,000.00, **Funded**.
- [3] *Quinlan Endowment Faculty Travel. PI.* Quinlan Endowment Faculty Travel, Marshall University, 2018. Amount: \$400.00, **Funded**.
- [2] *Suturing Technique Simulation. Mentor.* Undergraduate Spring Research Scholar Awards, Marshall University, 2018. Amount: \$175.00, **Funded**.
- [1] *Self-dynamic Data Center Management to Optimize Search Speed for Media Type Files. PI.* Faculty Summer Research, Marshall University, 2017. Amount: \$2,000.00, **Funded**.

PUBLICATIONS

Books

- [1] **Husnu S. Narman** and Mohammed Atiquzzaman. *Carrier Assignment and Packet Scheduling in LTE-A and Wi-Fi*. Dissertation as a Book. LAP LAMBERT Academic Publishing, 2016, p. 160. ISBN: 9783659891977. URL: <https://www.amazon.com/Carrier-Assignment-Packet-Scheduling-Wi-Fi/dp/3659891975>.

Journals

- [13] Amrit Pal, Abishi Chowdhury, Satakshi, **Husnu Saner Narman**, Arkabandhu Chowdhury, and Manish Kumar. “Random Partition based Adaptive Distributed Kernelized SVM for Big Data”. In: *IEEE Access* (2022).
- [12] Arnob Paul, Md. Hasanul Islam, Md. Shohrab Hossain, and **Husnu Saner Narman**. “A novel zone walking protection for secure DNS Server”. In: *International Journal of Interdisciplinary Telecommunications and Networking* (2022).
- [11] **Husnu S. Narman**, Haroon Malik, and Govind Yatnalkar⁺. “An Enhanced Ride Sharing Model Based on Human Characteristics, Machine Learning Recommender System, and User Threshold Time”. In: *Springer Journal of Ambient Intelligence and Humanized Computing* (2021). **Invited**.
- [10] Jinwei Liu, Haiying Shen, Hongmei Chi, **Husnu S. Narman**, Yongyi Yang, Long Cheng, and Wingyan Chung. “A Low-Cost Multi-Failure Resilient Replication Scheme with Data Correlation for High Data Availability in Cloud Storage”. In: *IEEE/ACM Transaction on Networking* (2020).
- [9] Abishi Chowdhury, Shital A. Raut, and **Husnu S. Narman**. “DA-DRLS: Drift adaptive deep reinforcement learning based scheduling for IoT resource management”. In: *Journal of Network and Computer Applications* 138 (May 2019), pp. 51–65.
- [8] Ankur Sarker, Haiying Shen, M. Rahman, M. Chowdhury, K. Dey, F. Li, Y. Wang, and **Husnu S. Narman**. “A Review of Sensing and Communication, Human Factors, and Controller Aspects for Information-Aware Connected and Automated Vehicles”. In: *IEEE Transactions on Intelligent Transportation Systems* (March 2019).
- [7] Kuo-Chi Fang⁺, **Husnu S. Narman**, Ibrahim Hussein Mwinyi⁺, and Wook-Sung Yoo. “PPHA-Popularity Prediction Based High Data Availability for Multimedia Data Center”. In: *International Journal of Interdisciplinary Telecommunications and Networking* 11.1 (January 2019), pp. 17–29.
- [6] Jinwei Liu, Haiying Shen, **Husnu S. Narman**, Z. Lin, and Z. Li. “Popularity-aware Multi-failure Resilient and Cost-effective Replication for High Data Durability in Cloud Storage”. In: *IEEE Transactions on Parallel and Distributed Systems* (October 2018).

- [5] Jinwei Liu, Haiying Shen, **Husnu S. Narman**, Wingyan Chung, and Zongfang Lin. “A Survey of Mobile Crowdsensing Techniques: A Critical Component for The Internet of Things”. In: *ACM Transactions on Cyber-Physical Systems* 2.3 (June 2018).
- [4] Jinwei Liu, Haiying Shen, L. Yu, **Husnu S. Narman**, J. Zhai, J. O. Hallstrom, and Y. He. “Characterizing Data Deliverability of Greedy Routing in Wireless Sensor Networks”. In: *IEEE Transactions on Mobile Computing* 17.3 (March 2018), pp. 543–559.
- [3] **Husnu S. Narman**, Md.Shohrab Hossain, Mohammed Atiquzzaman, and Haiying Shen. “Scheduling Internet of Things Applications in Cloud Computing”. In: *Annals of Telecommunications* (February 2017).
- [2] **Husnu S. Narman**, Mohammed Atiquzzaman, Mehdi Rahmani-andebili, and Haiying Shen. “Joint and Selective Component Carrier Assignment in LTE-A”. In: *Computer Networks* (September 2016).
- [1] **Husnu S. Narman**, Md.Shohrab Hossain, and Mohammed Atiquzzaman. “Management and Analysis of Multi Class Traffic in Single and Multi-band Systems”. In: *Wireless Personal Communications* 83 (July 2015).

Conferences

- [40] Shahriar Hassan, Md. Asif Muztaba1, Shohrab Hossain, and **Husnu S. Narman**. “A Hybrid Encryption Technique based on DNA Cryptography and Steganography”. In: *IEEE Information Technology, Electronics and Mobile Communication Conference (IEEE IEMCON)*. Virtual, October 2022.
- [39] Eric M. Dillon*, Craig Carpenter II*, John Cook*, Thomas D. Wills*, and **Husnu S. Narman**. “A Machine Learning-Based Automatic Feedback System to Teach Cybersecurity Principles to K-12 and College Students”. In: *IEEE Global Humanitarian Technology Conference (GHTC)*. Virtual, September 2022.
- [38] Neil Loftus*, Cameron Green*, and **Husnu S. Narman**. “The Cybersecurity Packet Control Simulator: CSPCS”. In: *IEEE Global Humanitarian Technology Conference (GHTC)*. Virtual, September 2022.
- [37] Kazi Kader, Md. Tareque Tahsin, Md. Shohrab Hossain, and **Husnu S. Narman**. “Ransomware Detection Using Binary Classification”. In: *IEEE Cyber Science and Technology Congress (IEEE CyberSciTech)*. Virtual, October 2021.
- [36] Md. Mahbubur Rahman, Md. Shohrab Hossain, Mohammad Mahfuzul Islam, and **Husnu S. Narman**. “An Energy Efficient Gravitational Model for Tree Based Routing in Wireless Sensor Networks”. In: *IEEE Information Technology, Electronics and Mobile Communication Conference (IEEE IEMCON)*. Virtual, October 2021.
- [35] Eric Shoemaker*, Harrison Randolph*, James Bryce, and **Husnu S. Narman**. “Designing Crowdsourcing Software to Inform Municipalities About Infrastructure Condition”. In: *IEEE International Conference on Smart Cities: Improving Quality of Life Using ICT, IoT, AI (HONET-ICT)*. Virtual, October 2021.
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