

# Husnu Saner Narman

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## WORK EXPERIENCE

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*Faculty Member, January 2017 – Present*

**Marshall University, Huntington, WV**

- Research on K-12, Wireless Network, Cloud Computing and Internet of Things
- **Taught Courses**
  - Cloud Computing (Fall 2017, Fall 2018)
  - Data Structure and Algorithm (Spring 2017, Fall 2017, Spring 2018, Fall 2018)
  - Automata and Formal Languages (Fall 2018)
  - Database Management (Spring 2017, Spring 2018)
  - Adv. Data Structure and Algorithm (Spring 2017)

*Postdoctoral Fellow, May 2016 – December 2016*

**Clemson University, Clemson, SC**

- Developed efficient scheduling and resource allocation for cloud data centers.
- Advised PhD Students and helped them to prepare their writing and research proposals.
- Helped PhD students and Project Investigator to apply for grants.

*Research Assistant, January 2012 – May 2016*

**University of Oklahoma, Norman OK**

- Research on Network and Cloud Computing.
- Proposed efficient communication models for multi-band wireless routers.
- Attended international and local conferences as an audience and a speaker.

*Webpage Developer, January 2011 – 2016*

- Used HTML and CSS for webpage development.
- <http://cs.ou.edu/~atiq/>
- <http://hsnarman.oucreate.com/>
- <http://www.ou.edu/turks/>

*Software Engineering Intern, May 2015 – August 2015*

**Institutional Shareholder Services, Norman OK**

- Design and development of an automation system to test the performance of an extensive web application.
- Used repeated actual users' behaviors technique in distributed system with multi-thread programming.
- Used Tools: Java, Selenium, JDBC, MySQL and Virtual Machines.

*Teaching Assistant, January 2011 – May 2011*

**University of Texas at San Antonio, San Antonio TX**

- Assisted to the instructor for Computer Networks course.
- Prepared/graded homework and exams.

*Teacher, September 2006 – March 2007*

**Private Tutoring Center, Corum Turkey**

- Prepared geometry course syllabus.
- Taught geometry.
- Helped more than a hundred students to prepare for the national university placement exams to reach their goals.

## EDUCATION

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*Ph.D. in Computer Science, May 2016*

**University of Oklahoma, Norman OK**

- GPA: 3.67/4.0
- Dissertation Title: Design and development of carrier assignment and packet scheduling in LTE-A and Wi-Fi.

*M.S. in Computer Science, May 2011*

**University of Texas at San Antonio, San Antonio TX**

- GPA: 3.83/4.0
- Graduation report: Topological characteristics of multi-hop wireless networks.

*B.S. in Mathematics, September 2006*

**Abant Izzet Baysal University, Bolu Turkey**

- GPA: 3.66/4.0

## SERVICES

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- Marshall University Summer Camp for K-12, 2017, 2018
- Marshall University Undergraduate Research Program, 2018
- Marshall University Undergraduate and Graduate Conference, 2018
- Marshall University CS Project Room Arrangement with HoloLens, Oculus Rift, and LeapMotion, 2017
- Marshall University Catalog Editing and Correction: CS BS and MS, IS MS, 2017
- Marshall University Freshman Orientation: 2017

## TEACHING INTEREST

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- |                       |                                      |
|-----------------------|--------------------------------------|
| • Wireless Network    | • Performance Evaluation             |
| • Network Management  | • Software Testing                   |
| • Operating Systems   | • Programming Languages              |
| • Data Structures     | • Algorithm for Software Development |
| • Distributed Systems | • Java / C for Software Development  |
| • Cloud Computing     | • Scientific Computing               |
| • Internet of Things  | • Database Management                |

## CORE SKILLS

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- |   |   |
|---|---|
| • Advanced knowledge of Java              | • Performance and scalability optimization      |
| • Matlab, C, Python, PHP                  | • Advanced problem-solving skills               |
| • Database Management (MySQL, PSQL, JDBC) | • Troubleshooting and debugging                 |
| • Knowledge of JUnit and Maven            | • Android App Development: <a href="#">Link</a> |
| • Automation development (Selenium)       | • LTE, LTE-A, and Wi-Fi                         |
| • Web development, HTML, CSS              | • Vehicular Network                             |
|   | • Windows, Linux (Mint, Ubuntu, Backtrack)      |

## AWARDS AND HONORS

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- Marshall University Summer Research Grand: \$2000.00, 2017, 2018
- Outstanding Ph.D. Student Award, University of Oklahoma, 2016
- Turkish Ministry of Education Fellowship, 2007-2016
- Robberson Travel and Research Grant, University of Oklahoma, 2015
- Ranked 1<sup>st</sup> among Graduates of Faculty of Arts and Science, Abant Izzet Baysal University, 2006
- Graduated as High Honor Student, Abant Izzet Baysal University, 2006

## PROFESSIONAL ACTIVITIES

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- Editor for Elsevier Journal of Network and Computer Applications
- Publicity Co-Chair: ICCCN'17, NAS'17
- TPC: ICC'18, 17, 16, 15, GLOBECOM'18, 17, 16, 15, WF-5G'18, TENCON'17, WINCOM'17, WINCOM'16,
- Reviewer: IEEE Transactions on Parallel and Distributed Systems  
IEEE Transactions on Mobile Computing  
IEEE Journal on Selected Areas in Communications  
Elsevier Journal of Network and Computer Applications  
Elsevier Future Generation Computer System
- HackerRank and GitHub

## VOLUNTEER ACTIVITIES

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- IEEE Communication Society Professional member (2017-Present)
- Volunteer for Habitat for Humanity (2011-Present)
- Volunteer for Oklahoma Boys and Girls Club (2015-2016)
- IEEE Communication Society Student member (2014-2015)
- Developed and taught Turkish Language course for five semesters in UTSA and OU (2011-2016)
- President and Vice President, Turkish Student Association, University of Oklahoma (2011-2016)
- President, Turkish Student Association, University of Texas at San Antonio (2010-2011)
- Science Club Member, Abant Izzet Baysal University (2002-2006)
- Representative of Mathematics Department, Abant Izzet Baysal University (2004-2005)

## PUBLICATIONS

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### *Book*

- [1] *Carrier Assignment and Packet Scheduling in LTE-A and Wi-Fi*: Husnu Saner Narman and Mohammed Atiquzzaman (Dissertation as a book - LAP LAMBERT Academic Publishing 2016)

### *Journals*

- [8] *A Critical Review of Controller, Sensing and Communication, and Human Factors Aspects for Information-Aware Connected Autonomous Vehicles* (Under Review), IEEE Intelligent Transportation Systems Society Information (TITS) (August 2017)
- [7] *Popularity-aware Multi-failure Resilient and Cost-effective Replication for High Data Durability in Cloud Storage*, IEEE Transaction on Parallel and Distributed Systems (TPDS) (Accepted - July 2018)
- [6] *A Survey of Mobile Crowdsensing Techniques: A Critical Component for The Internet of Things*: Jinwei Liu, Haiying Shen, Husnu S. Narman, Wingyan Chung, and Zongfang Lin, ACM Cyber-Physical Systems (TCPS) (April 2018)
- [5] *PPHA-Popularity Prediction based High Data Availability for Datacenter*: Kuo-Chi Fang, Husnu Saner Narman, Ibrahim Hussein Mwinyi, and Wook-Sung Yoo, International Journal of Interdisciplinary Telecommunications and Networking (Accepted May 2018, Jointly WTS)
- [4] *Characterizing Data Deliverability of Greedy Routing in Wireless Sensor Networks*: Jinwei Liu, Haiying Shen, Lei Yu, Husnu S. Narman, Jiannan Zhai, Jason O. Hallstrom, and Yangyang He, IEEE Transaction on Mobile Computing (TMC) (March 2017)
- [3] *Joint and Selective Component Carrier Assignment in LTE-A*: Husnu S. Narman, Mohammed Atiquzzaman, Mehdi Rahmani-andebili, and Haiying Shen Computer Networks (September 2016)

- [2] *Scheduling Internet of Things Applications in Cloud Computing*: Husnu S. Narman, Md.Shohrab Hossain, Mohammed Atiquzzaman, and Haiying Shen *Annals of Telecommunications* (June 2016)
- [1] *Management and Analysis of Multi Class Traffic in Single and Multi-band Systems*: Husnu S. Narman, Md.Shohrab Hossain, and Mohammed Atiquzzaman *Wireless Personal Communications* 83 (July 2015)

### *Conferences*

- [14] *PPHA-Popularity Prediction based High Data Availability for Datacenter*: Kuo-Chi Fang, Husnu Saner Narman, Ibrahim Hussein Mwinyi, and Wook-Sung Yoo *Wireless Telecommunications Symposium, 2018, Phoenix, AZ*
- [13] *Predictive Self-Learning Content Recommendation System*: Ibrahim Hussein Mwinyi, Husnu Saner Narman, Kuo-Chi Fang, and Wook-Sung Yoo: *Wireless Telecommunications Symposium, 2018, Phoenix, AZ*
- [12] *CCRP: Customized Cooperative Resource Provisioning for High Resource Utilization in Clouds*: Jinwei Liu, Haiying Shen, and Husnu S. Narman *IEEE International Conference on Big Data, 2016, Washington, DC*
- [11] *Primary Component Carrier Assignment in LTE-A*: Husnu S. Narman and Mohammed Atiquzzaman *EAI QSHINE, 2016, Seoul, South Korea*
- [10] *Analysis of Joint and Partial Component Carrier Assignment Techniques in LTE and LTE-A*: Husnu S. Narman and Mohammed Atiquzzaman *IEEE Global Communications Conference (GLOBECOM), 2015, San Diego, CA*
- [9] *Selective Periodic Component Carrier Assignment Technique in LTE and LTE-A Systems*: Husnu S. Narman and Mohammed Atiquzzaman *IEEE Global Communications Conference (GLOBECOM), 2015, San Diego, CA*
- [8] *Joint and partial carrier components assignment techniques based on user profile in LTE systems*: Husnu S. Narman and Mohammed Atiquzzaman *IEEE Wireless Communications and Networking Conference (WCNC), 2015, New Orleans, LA*
- [7] *Energy aware scheduling and queue management for next generation Wi-Fi routers*: Husnu S. Narman and Mohammed Atiquzzaman *IEEE Wireless Communications and Networking Conference Workshops (WCNCW), 2015, New Orleans, LA*
- [6] *Carrier Components Assignment Method for LTE and LTE-A Systems Based on User Profile and Application*: Husnu S. Narman and Mohammed Atiquzzaman *IEEE GLOBECOM Workshop on Broadband Wireless Access, 2014, Austin, TX*
- [5] *DDSS: Dynamic Dedicated Servers Scheduling for multi priority level classes in cloud servers*: Husnu S. Narman, Md. Shohrab Hossain, and Mohammed Atiquzzaman *IEEE International Conference on Communications (ICC), 2014, Sydney, Australia*
- [4] *h-DDSS: Heterogeneous Dynamic Dedicated Servers Scheduling in cloud computing*: Husnu S. Narman, Md. Shohrab Hossain, and Mohammed Atiquzzaman *IEEE International Conference on Communications (ICC), 2014, Sydney, Australia*
- [3] *Multi Class Traffic Analysis of Single and multi-band Queuing System*: Husnu S. Narman, Md. Shohrab Hossain, and Mohammed Atiquzzaman *IEEE Global Communications Conference (GLOBECOM), 2013, Atlanta, GA*
- [2] *A Novel Scheduling and Queue Management Scheme for multi-band Mobile Routers*: Md. Shohrab Hossain, Husnu S. Narman, and Mohammed Atiquzzaman *IEEE International Conference on Communications (ICC), 2013, Budapest, Hungary*
- [1] *Utilizing distance distribution in determining topological characteristics of multi-hop wireless networks*: Husnu S. Narman, Turgay Korkmaz, and Suleyman Tek *Computing, Networking and Communications (ICNC), 2013, San Diego, CA*