

# Husnu Saner Narman

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## WORK EXPERIENCE

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*Faculty Member, January 2017 – Present*

**Marshall University, Huntington, WV**

- Research on Wireless Network, Cloud Computing and Internet of Things
- **Fall 2017 Taught Courses**
  - Cloud Computing (CS Graduate – 16 students)
  - Data Structure and Algorithm (CS Undergraduate – 21 students)
- **Spring 2017 Taught Courses**
  - Database Management (CS Graduate, CS Undergraduate, IS Graduate – 70 students)
  - Adv. Data Structure and Algorithm (CS Undergraduate – 19 students)
  - Data Structure and Algorithm (CS Undergraduate – 13 students)

*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 research Project Investigator to apply for grants.

*Research Assistant, January 2012 – May 2016*

**University of Oklahoma, Norman OK**

- Developed and designed efficient and balanced resource allocation for cloud servers.
- Implemented efficient user profile based Carrier Aggregation for LTE and LTE-A mobile system.
- Proposed efficient communication models for multi-band wireless routers.
- Attended international and local conferences as an audience and a speaker.

*Webpage Developer, January 2011 – Present*

- 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. [Link](#)
- Published two journal and twelve conference papers. [Link](#)
- Coursework: Network Management, Database Management, Scientific Programming, Discrete Optimization, Parallel Network Design, Formal Languages

*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
- Published one conference paper
- Coursework: Data Structures, Advanced Programming, Analysis of Algorithm, Compilers, Computer Architecture, Networking, Bioinformatics, Performance Evaluation, Information Security.

*B.S. in Mathematics, September 2006*

**Abant Izzet Baysal University, Bolu Turkey**

- GPA: 3.66/4.0
- Coursework: Python, Web Programming, Advanced Algebra and Calculus courses, Probability, and Statistics.

## SERVICES

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- Marshall University Undergraduate and Graduate Conference, 2018
- Marshall University Undergraduate Research Program, 2018
- Marshall University Summer Camp for PreK-12, 2017, 2018
- Marshall University CS Project Room Arrangement with 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                |

## SELECTED PROJECT EXPERIENCE

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*LTE Carrier Aggregation, 2014 – 2016*

- Proposed user profile based carrier aggregation for LTE-A
- Measured the number of required carriers for each user in LTE-A communication based on user profile
- Implemented a realistic finite buffer simulation to analyze the performance of proposed technique

### *Android Travel Sale Person Application, 2014*

- Integrated Mobile Application and Mobile Cloud Computing, [Link](#)
- Measure time and energy efficiency of the developed application in mobile and cloud environment.

### *Scheduling in Cloud, 2013*

- Proposed a novel scheduling model for cloud computing by considering heterogeneity of servers
- Considered priority of task scheduling
- Implemented a queue based simulation to analyze the performance of the model

## **CORE SKILLS**

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

## **AWARDS AND HONORS**

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

## **PROFESSIONAL ACTIVITIES**

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

## **VOLUNTEER ACTIVITIES**

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- Volunteer for Habitat for Humanity (2011-Present)
- Volunteer for Oklahoma Boys and Girls Club (2015-Present)
- 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*

- [5] *A Survey of Mobile Crowdsensing Techniques: A Critical Component for The Internet of Things*, Jinwei Liu, Haiying Shen, and Husnu S. Narman ACM Cyber-Physical Systems (TCPS) (February 2018)
- [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 Multimedia Datacenter*, Wireless Telecommunication Symposium (WTS, 2018, Phoenix, AZ) and International Journal of Interdisciplinary telecommunications & Networking (IJITN))
- [13] *Predictive Self-Learning Content Recommendation System*, Wireless Telecommunication Symposium (WTS), 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