

ABHISHEK PHADKE

Curriculum Vitae

Texas A&M University Corpus Christi
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EDUCATION

Ph.D. Texas A&M University, Corpus Christi

Geospatial Computer Science, *2019 to present*
Resiliency in grids, UAV, Cybersecurity, Blockchain.

M.S. Texas A&M University, Kingsville

Electrical engineering, *2017 to 2019*
Renewable energy generation and transmission, Blockchain development, Multi-agent SoS

B.E. Mumbai University, 2017

Major in Electronics Engineering, Minor in Computer science.

ACADEMIC AND RESEARCH POSITIONS

Research Assistant	Texas A&M University-Corpus Christi (<i>August 2020 - present</i>) Department of Computing Sciences
Adjunct Faculty	Texas A&M University-Corpus Christi (<i>January 2020–August 2020</i>) Department of Computing Sciences EEEN-3345-001- Electronic devices & Circuits
Research Assistant	Texas A&M University-Corpus Christi (<i>August 2019- December 2019</i>) Department of Computing Sciences
Instructor	Texas A&M University-Kingsville (<i>May 2019- August 2019</i>) Upward Bound Rural, Upward bound Math & Science
Teaching Assistant	Texas A&M University-Kingsville (<i>August 2018-December 2018</i>) Department of Electrical and computer engineering

PROFESSIONAL WORK POSITIONS

Jr Engineer Amber Instruments, Mumbai, India. (*June 2016 to July 2017*)
R&D department

Jr Engineer Om Energy Savers, Mumbai, India. (*June 2015 to May 2016*)
Quality control

PUBLICATIONS

Phadke A. F.A. Medrano, S. Ustymenko & T. Chu , “A study *On the Inclusion of Heterogeneous Agents in Unmanned Vehicle Swarms*”, The 20th International Conference on Embedded Systems, Cyber-physical Systems, & Applications (ESCS22), July 25-28,2022, Las Vegas, Nevada (*Accepted, pending publication*)

Phadke, A & F.A. Medrano. A conceptual Blockchain backed framework for Healthcare Data access – Extended abstract series. Academia Letters, Article 4944. DOI: [10.20935/AL4944](https://doi.org/10.20935/AL4944)

Phadke, A.; Medrano, F.A.; Chu, T. Engineering Resiliency in UAV Swarms—A Bibliographic Analysis. *Journal of Physics: Conference Series* **2022**, 2330. DOI: [10.1088/1742-6596/2330/1/012007](https://doi.org/10.1088/1742-6596/2330/1/012007)

A. Phadke, F. A. Medrano, J. Brahmbhatt and S. Ustymenko, "A Framework for an Optimized Smart Energy System," 2022 International Symposium on Electrical, Electronics and Information Engineering (ISEEIE), 2022, pp. 240-246, DOI: [10.1109/ISEEIE55684.2022.00049](https://doi.org/10.1109/ISEEIE55684.2022.00049).

A. Phadke, F. A. Medrano and S. Ustymenko, "Applications of Blockchain in E-government," 2022 *International Symposium on Electrical, Electronics and Information Engineering (ISEEIE)*, 2022, pp. 157-164, DOI: [10.1109/ISEEIE55684.2022.00035](https://doi.org/10.1109/ISEEIE55684.2022.00035).

A. Phadke, F. A. Medrano and J. Brahmbhatt, "A conceptual framework for a Blockchain-based Tax payment financial service," 2021 *International Conference on Computational Science and Computational Intelligence (CSCI)*, 2021, pp. 1523-1527, DOI: [10.1109/CSCI54926.2021.00296](https://doi.org/10.1109/CSCI54926.2021.00296)

A. Phadke, F. A. Medrano and S. Ustymenko, "A Review of Vehicular Micro-Clouds," 2021 International Conference on Computational Science and Computational Intelligence (CSCI), 2021, pp. 411-417, DOI: [10.1109/CSCI54926.2021.00139](https://doi.org/10.1109/CSCI54926.2021.00139)

Phadke A. and S. Ustymenko, “*Examining Security and forensics across Database Management Systems*”, 2021 International conference on Security and Management (SAM21), July 26-29,2021, Las Vegas, Nevada (*Accepted, pending publication*)

Phadke A. and S. Ustymenko, "Updating the Taxonomy of Intrusion Detection Systems," 2021 IEEE 45th Annual Computers, Software, and Applications Conference (COMPSAC 2021), pp. 1085-1091, DOI: [10.1109/COMPSAC51774.2021.00148](https://doi.org/10.1109/COMPSAC51774.2021.00148)

Phadke, A., & Medrano, F. A. (2021). *A Resilient Multi-UAV System of Systems (SoS)*. Academia Letters. DOI: [10.20935/AL1659](https://doi.org/10.20935/AL1659)

CONFERENCE PRESENTATIONS AND INVITED TALKS

Phadke A. F.A. Medrano, S. Ustymenko & T. Chu , “A study *On the Inclusion of Heterogeneous Agents in Unmanned Vehicle Swarms*”, The 20th International Conference on Embedded Systems, Cyber-physical Systems, & Applications (ESCS22), July 25-28,2022, Las Vegas, Nevada

Phadke A., F.A. Medrano, Chu,T . “*Engineering resiliency in UAV Swarms- A bibliographic analysis* ”, 2022 International Symposium on Intelligent Unmanned Systems and artificial Intelligence (SIUSAI 2022) April 22-24, 2022. (Virtual)

Phadke A., F.A. Medrano, J. Brahmabhatt & S. Ustymenko. “*A Framework for an Optimized Smart Energy System*”, 2022 International Symposium on Electrical, Electronics and Information Engineering (ISEEIE), February 25-27. (Virtual)

Phadke, A., F.A. Medrano & S. Ustymenko. “*Applications of Blockchain in E-government*”. 2021 European conference on Computer Science and Technology. (ECCSIT 2021) December 14. (Virtual)

Phadke A., F.A. Medrano, J. Brahmabhatt “*A Conceptual Framework for a Blockchain-based Tax payment Financial Service.*” 2021 International Conference on Computational Science and Computational Intelligence (CSCI 2021), December 15-17, (Virtual)

Phadke A., F.A. Medrano, S. Ustymenko “*A Review of Vehicular Micro Clouds*” 2021 International Conference on Computational Science and Computational Intelligence (CSCI 2021), December 15-17, (Virtual)

AWARDS AND GRANTS

- Geo-Spatial Engineering GR Scholarship- Texas A&M University, Corpus Christi, Spring 2022 **\$100**
- CBI endowment- Texas A&M University, Corpus Christi-Fall 2021, **\$750**
- Geo-Spatial Engineering GR Scholarship- Texas A&M University, Corpus Christi-August 2021 to May 2022, **\$300**
- International Impact Scholar - Texas A&M university, Corpus Christi-August 2021 to May 2022, **\$1,899**
- Division of Research and Innovation, Texas A&M University, Corpus Christi, Student research Competition award, September 2021, **\$775**
- 3M thesis competition, University level, Texas A&M University, Corpus Christi-People’s Choice award, April 2021, **\$500**
- Spring DT credit-Texas A&M University, Corpus Christi, Spring 2021, **\$200**
- Geo-Spatial Engineering GR Scholarship- Texas A&M University, Corpus Christi-Spring 2021, **\$500**
- CBI endowment- Texas A&M University, Corpus Christi-Spring 2021, **\$120**
- International Impact Scholar - Texas A&M university, Corpus Christi -August 2020 to May 2021, **\$1,899**
- Graduate Student Merit Scholarship - Texas A&M University, Kingsville -August 2017 to July 2018, **\$10,000**

CERTIFICATIONS

Certifications in Electric utility fundamentals, Renewable energy, Digital manufacturing, Enterprise system management, Advanced manufacturing process analysis, IoT, and embedded systems.

Complete list: [Click here to visit.](#)

RESEARCH INTERESTS

Resiliency: System resiliency, **multi-agent systems**, **Renewable energy:** Energy generation using renewable energy sources, efficient transmission. **Blockchain :** Applications in E-governance & Smart city.