

ABHISHEK PHADKE

Curriculum Vitae

Texas A&M University Corpus Christi
6300 Ocean Drive, USL
Corpus Christi, TX 78412

Email: aphadke@islander.tamucc.edu
Phone: (361) 355-6608
Web: <https://sites.google.com/view/abhishek-phadke>

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, Chu,T . “*Engineering resiliency in UAV Swarms- A bibliographic analysis* ”, 2022 International Symposium on Intelligent Unmanned Systems and artificial Intelligence (SIUSAI 2022) Macao, China, April 22-24, 2022. (*Accepted, pending publication*)

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 2022), Chiang Mai, Thailand, February 25-27, 2022. (*Accepted, pending publication*)

Phadke, A., F.A. Medrano & S. Ustymenko. “*Applications of Blockchain in E-government*”. 2021 European Conference on Computer Science and Technology (ECCSIT 2021), Budapest, Hungary. December 14, 2021 (*Accepted, pending publication*)

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, Las Vegas, Nevada (*Accepted, pending publication*)

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, Las Vegas, Nevada (*Accepted, pending publication*)

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, 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)

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) (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:

<https://drive.google.com/file/d/1ubKBJ1nciRj28IDvghWsHIRgm-ShHLZI/view>

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.