ABHISHEK PHADKE
Curriculum Vitae

Texas A&M University Corpus Christi   **Email:** aphadke@islander.tamucc.edu
6300 Ocean Drive, USL   **Phone:** (361) 355-6608
Corpus Christi, TX 78412   **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 *(August 2020 - present)*
Department of Computing Sciences

Adjunct Faculty   Texas A&M University-Corpus Christi *(January 2020–August 2020)*
Department of Computing Sciences
EEEN-3345-001- Electronic devices & Circuits

Research Assistant   Texas A&M University-Corpus Christi *(August 2019- December 2019)*
Department of Computing Sciences

Instructor   Texas A&M University-Kingsville *(May 2019- August 2019)*
Upward Bound Rural, Upward bound Math & Science

Teaching Assistant   Texas A&M University-Kingsville *(August 2018-December 2018)*
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. A conceptual Blockchain backed framework for Healthcare Data access – Extended abstract series. Academia Letters, Article 4944. DOI: 10.20935/AL4944

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. Brahmbhatt & 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. Brahmbhatt "*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

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

CONFERENCE PRESENTATIONS AND INVITED TALKS

Phadke A., F.A. Medrano, J. Brahmbhatt & 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. Brahmbhatt "*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 (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.