# ABHISHEK PHADKE

Curriculum Vitae

Texas A&M University Corpus Christi Email: aphadke@islander.tamucc.edu

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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** Texas A&M University-Corpus Christi (August 2020 - present)

**Assistant** Department of Computing Sciences

**Adjunct** Texas A&M University-Corpus Christi (*January* 2020–August 2020)

**Faculty** Department of Computing Sciences

EEEN-3345-001- Electronic devices & Circuits

**Research** Texas A&M University-Corpus Christi (August 2019- December 2019)

**Assistant** Department of Computing Sciences

**Instructor** Texas A&M University-Kingsville (*May 2019- August 2019*)

Upward Bound Rural, Upward bound Math & Science

**Teaching** Texas A&M University-Kingsville (August 2018-December 2018)

**Assistant** 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, "On the Inclusion of Heterogeneous Agents in Unmanned Vehicle Swarms A Review", 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
- **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, 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. 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.