VENKATA SRIRAM SIDDHARDH NADENDLA

500 West 15th Street ◇ 313 Computer Science Building ◇ Rolla, Missouri, USA.
https://sid-nadendla.github.io ◇ (573) 341 4090 ◇ nadendla@mst.edu

CURRENT APPOINTMENT

Missouri University of Science and Technology August 2018 - Present
Assistant Professor, Computer Science *Rolla, MO*

Affiliate: Intelligent Systems Center, Center for Intelligent Infrastructure

PAST APPOINTMENTS

University of Illinois at Urbana-Champaign Urbana, IL
Postdoctoral Research Associate, Coordinated Science Laboratory *October 2016 - July 2018*

- Proposed/validated novel choice models from revealed preferences, and investigated the effects of subjective biases on strategic communication between human agents.

Syracuse University Syracuse, NY
Graduate Research Assistant, Sensor Fusion Laboratory *August 2009 - September 2016*

- Designed and analyzed practical designs for *Security in Networked Systems*, *Spectrum Allocation in Cognitive Radio Networks* and *Hypothesis Testing for Human Decision Makers*.

ANDRO Computational Solutions, LLC Rome, NY
Research Intern *Summer 2013, 2014*

- Validated OFDM-based multi-user FDMA on USRP N300s and benchmarked against TDMA and min-TSC CDMA systems, Explored RF Signatures in spurious leakage signals in wireless devices to detect data-exfiltrators.

Louisiana State University Baton Rouge, LA
Teaching Assistant *August 2007 - May 2009*

- Instructed Digital Design Lab using Verilog HDL, Provided grading-assistance in Electric and Magnetic Fields, Signals and Systems and Probability Theory and Random Processes, Designed a digital/wireless communications teaching lab using TIMS-301 System Unit.

EDUCATION

Syracuse University December 2016
Ph.D. in Electrical and Computer Engineering *GPA: 3.91/4.0*

Thesis: *On the Design and Analysis of Secure Inference Networks*

Louisiana State University May 2009
M.S. in Electrical Engineering *GPA: 4.0/4.0*

Thesis: *Secure Distributed Detection in WSNs via Encryption of Sensor Decisions*

SCSVMV University May 2007
B.E. in Electronics and Communication Engineering *GPA: 9.5/10*

RESEARCH INTERESTS

My research broadly focuses on the modeling, design and analysis of socio-technical systems (e.g. cyber-physical-human systems) for smart living applications, in the following topics:

Trustworthy Inference/Learning	Human-AI Teams
Algorithmic Game Theory	Human Decision Modeling
Strategic Deception & Manipulation	Security & Privacy
Information Theory	Wireless Communications/Networks

RESEARCH GRANTS

Total External Grant Awards: $ 4,500,000 **My Share:** $500,000

AWARDED GRANTS (EXTERNAL)

PI (Solo), Boeing Proposal (Invited) Period: 2023-24
Award: $5000 *Share: 100%*

- Title: *Cold Spray Fingerprinting and Artificial Intelligence for MAI BA 26.*
- Collaborators: None

SP, NSF Grant Period: 2022-26
Award: $1,800,000 *Share: 20%*

- Title: *Collaborative Research: FW-HTF-R: Embedding Preferences in Adaptable Artificial Intelligence Decision Support for Transplant Healthcare to Reduce Kidney Discard.*
- Collaborators: C. Canfield (PI), C. Dagli, D. Shank

SP, NSF Grant Period: 2022-25
Award: $461,288 *Share: 20%*

- Title: *REU Site: Research and Training Experience for Undergraduates in the areas of Cybersecurity, Data Analytics and Blockchain for securing Big Data and CPS.*
- Collaborators: S. Madria (PI), S. K. Das.

SP, Dept. of Transportation Grant Period: 2022-26
Award: $1,401,100 *Share: 2%*

- Title: *Inspecting and Preserving Infrastructure through Robotic Exploration.*
- Collaborators: G. Chen (PI), J. Myers, M. El Gawady, G. Yan, H. Ma, X. Zhang, T. Luo, S. Long, B. Kania-Gosche

Co-PI, CDC-NIOSH Grant Period: 2021-25
Award: $1,404,780 *Share: 4%*

- Title: *Research, Technology and Human Interventions for Self-Escape in Underground Mine Emergencies - II.*
- Collaborators: S. Frimpong (PI), K. Awah-Offei, D. Bristow, S. Madria, K. Perry, C. Johnson, D. Baker, T. Sherizadeh, G. Xu

Co-PI, CDC-NIOSH Grant Period: 2020-23
Award: $995,000 *Share: 5%*

- Title: *Research, Technology and Human Interventions for Self-Escape in Underground Mine Emergencies - I.*
- Collaborators: S. Frimpong (PI), K. Awah-Offei, D. Bristow, S. Madria, K. Perry, C. Johnson, D. Baker, T. Sherizadeh, G. Xu

AWARDED GRANTS (INTERNAL)

Co-PI, Center for Aerospace Mfg. Tech., Missouri S&T Period: 2021-22
Award: $40,000 *Share: 20%*

- Title: *CAMT: A Method for Change Management in Additive Manufacturing*
- Collaborators: Douglas Bristow (PI)

PI, Center for Intelligent Infrastructure, Missouri S&T Period: 2020-21
Award: $19,300 *Share: 50%*

- Title: *Can Multi-Modal Routes Maximize Social Welfare in Futuristic Transportation CPS?*
- Collaborators: Sajal K. Das (Co-PI)

Co-PI, Center for Smart Living, Missouri S&T Period: 2019-20
Award: $24,000 *Share: 50%*

- Title: *Design of Effective Interventions for Drunk Driving in Semi-Autonomous Vehicles.*
- Collaborators: S. N. Balakrishnan (PI)

Co-PI, Siebel grant Period: 2017
Award: $50,000 *Share: 40%*

- Title: *Learning commuter preferences for traffic management in the presence of multiple (intransitive) attributes.*
- Collaborators: Cedric Langbort (PI), Hari Sundaram (Co-PI)

PUBLICATIONS

Total # Publications: 38 (as of March 2024)

Google Scholar Metrics: **Citations:** 425 **h-index:** 13 **i-10 index:** 16

Legend for Superscript Symbols

My graduate students: ★ REU students: ♣ Equal contributions: ∗

MANUSCRIPTS UNDER REVIEW

1. D. E. M. Brown★, **V. S. S. Nadendla**, and S. K. Das, "TASR: A Novel Trust-Aware Stackelberg Routing Algorithm to Mitigate Traffic Congestion." Submitted to *10th IEEE International Conference on Smart Computing (SMARTCOMP'24)*, 2024
2. S. P. Akula★, M. Telukunta★, and **V. S. S. Nadendla**, "Driver Fatigue Prediction using

Randomly Activated Neural Networks for Smart Ridesharing Platforms." Submitted to *IEEE Transactions on Intelligent Transportation Systems (T-ITS)*, 2024

3. M. Telukunta★, S. Rao♣, G. Stickney♣, **V. S. S. Nadendla**, and C. Canfield, "Learning Social Fairness Preferences from Non-Expert Stakeholder Opinions in Kidney Placement." Submitted to *Conference on Health, Inference and Learning (CHIL'24)*, 2024

4. N. Lutes★, **V. S. S. Nadendla**, and K. Krishnamurthy, "Convolutional Spiking Neural Networks for Detecting Anticipatory Brain Potentials Using Electroencephalogram." Submitted to *Scientific Reports*, 2023

5. R. L. Neupane, B. Bhusal, K. Neupane, P. Regmi, T. Dinh, L. Marrero, S. M. Saghaian NE, **V. S. S. Nadendla**, and P. Calyam, "On Countering Ransomware Attacks using Strategic Deception." Submitted to *IEEE Computer Security Foundations Symposium (CSF'24)*, 2024

ACCEPTED MANUSCRIPTS (UNDER PRINT)

1. Q. Zhang★, **V. S. S. Nadendla**, S. N. Balakrishnan, and J. Busemeyer, "Strategic Mitigation of Agent Inattention in Drivers with Open-Quantum Cognition Models." Submitted to *IEEE Transactions on Human-Machine Systems* (Accepted with Minor Comments), 2022

PEER-REVIEWED JOURNALS, CONFERENCES AND WORKSHOPS

Asst. Professor @ Missouri S&T (Aug 2018 - Current)

1. C. Rawlins, J. Sarangapani, and **V. S. S. Nadendla**, "A Reputation System for Provably-Robust Decision-making in IoT Blockchain Networks," *IEEE Internet of Things Journal*, 2023

2. C. Rawlins, J. Sarangapani, and **V. S. S. Nadendla**, "A Reputation System for Distributed Intelligent Blockchain Decision-Making." in *The Fifth International Conference on Blockchain Computing and Applications (BCCA2023)*, 2023

3. M. Telukunta★ and **V. S. S. Nadendla**, "Towards Inclusive Fairness Evaluation via Eliciting Disagreement Feedback from Non-Expert Stakeholders." in *3rd Workshop on Bias and Fairness in AI (BIAS'23) at ECML-PKDD Conference*, 2023

4. S. Sanga★, **V. S. S. Nadendla**, M. Telukunta★, and S. K. Das, "Maximizing Social Welfare in Selfish Multi-Modal Routing using Strategic Information Design for Quantal Response Travelers." in *The 20th IEEE International Conference on Mobile Ad-Hoc and Smart Systems (MASS 2023)*, 2023

5. P. Calyam, M. Kejriwal, P. Rao, J. Cheng, W. Wang, L. Bai, **V. S. S. Nadendla**, S. Madria, S. K. Das, R. Chadha, K. A. Hoque, K. Palaniappan, K. Neupane, R. L. Neupane, S. Gandhari, M. Singhal, L. Othmane, M. Yu, V. Anand, B. Bhargava, B. Robertson, K. Kee, P. Buzzanell, N. Bolton, and H. Taneja, "Towards a Domain-Agnostic Knowledge Graph-as-a-Service Infrastructure for Active Cyber Defense with Intelligent Agents," in *52nd IEEE Applied Imagery Pattern Recognition Workshop (AIPR'23)*, pp. 1–8, 2023

6. A. Alsafasfeh, L. Alagha, A. Alzidaneen, and **V. S. S. Nadendla**, "Optimization of Flotation Efficiency of Phosphate Minerals in Mine Tailings using Polymeric Depressants: Experiments and Machine Learning," *Physicochemical Problems of Mineral Processing*, vol. 58, no. 4, 2022

7. A. Lang, J. Castle, D. A. Bristow, R. G. Landers, and **V. S. S. Nadendla**, "Logistic Regression Classification to Predict Regional Anomalies in Nominally Printed Volume of Separate Test Pieces," in *Proceedings of the 33rd Annual International Solid Freeform Fabrication Symposium – An Additive Manufacturing Conference (SFF'22)*, 2022

8. R. Assaad, M. O. Ahmed, I. H. El-Adaway, A. Elsayegh, and **V. S. S. Nadendla**, "Comparing the Impact of Learning in Bidding Decision-Making Processes Using Algorithmic Game Theory," *Journal of Management in Engineering*, vol. 37, p. 04020099, Jan 2021

9. S. Roy, P. Roy, **V. S. S. Nadendla**, and S. K. Das, "Influence Spread Control in Complex Networks via Removal of Feed Forward Loops," in *International Conference on Computer Communications and Networks (ICCCN)*, pp. 1–9, IEEE, 2021

10. S. Sanga★ and **V. S. S. Nadendla**, "On the Design of Strategic Task Recommendations for Sustainable Crowdsourcing-Based Content Moderation." in *AAMAS Workshop on Autonomous Agents for Social Good (AASG'21) [Acceptance Rate = 25%]*, 2021

11. **V. S. S. Nadendla** and L. R. Varshney, "A Predicament in Securing Blockchain Consensus via Controlling Cryptopuzzle Difficulty," in *Third International Conference on Blockchain and Cryptocurrency (ICBC'21) [Acceptance Rate = 18%]*, 2021

12. A. U. Rehman, T. Lyche, K. Awuah-Offei, and **V. S. S. Nadendla**, "Effect of Text Message Alerts on Miners' Evacuation Decisions," *Safety Science*, vol. 130, Oct 2020

13. A. Pratap, R. Gupta, **V. S. S. Nadendla**, and S. K. Das, "Bandwidth-Constrained Task Throughput Maximization in IoT-enabled 5G Networks," *Pervasive and Mobile Computing*, vol. 69, p. 101281, Nov 2020

14. M. Telukunta★ and **V. S. S. Nadendla**, "On the Identification of Fair Auditors to Evaluate Recommender Systems based on a Novel Non-Comparative Fairness Notion," in *in Third FAccTRec Workshop on Responsible Recommendation (FAccTRec'20)*, September 2020. Available: https://arxiv.org/pdf/2009.04383.pdf

15. M. Devaguptapu★ and **V. S. S. Nadendla**, "On Task Decision Processes based on Discounted Satisficing Heuristic Employed by Crowd Workers," in *Proc. of 7th AAAI Conference on Human Computation and Crowdsourcing (HCOMP)*, October 2019. Work-in-Progress Paper

16. A. Pratap, F. Concone, **V. S. S. Nadendla**, and S. K. Das, "Three-Dimensional Matching Based Resource Provisioning for the Design of Low-Latency Heterogeneous IoT Networks," in *Proc. of the 22nd Intl. ACM Conf. on Modeling, Analysis and Simulation of Wireless and Mobile Systems*, MSWIM '19, p. 79–86, 2019

17. A. Pratap, R. Gupta, **V. S. S. Nadendla**, and S. K. Das, "On Maximizing Task Throughput in IoT-Enabled 5G Networks Under Latency and Bandwidth Constraints," in *Proc. of the IEEE Intl. Conf. on Smart Computing*, SMARTCOMP '19, pp. 217–224, June 2019

Postdoc @ Univ. Illinois, Urbana-Champaign (Dec 2016 - Jul 2018)

1. **V. S. S. Nadendla**, C. Langbort, and T. Başar, "Effects of Subjective Biases on Strategic Information Transmission," *IEEE Trans. on Comm.*, vol. 66, pp. 6040–6049, Dec 2018

2. **V. S. S. Nadendla** and C. Langbort, "On Estimating Multi-Attribute Choice Preferences

using Private Signals and Matrix Factorization," in *Proc. of the 52nd Annual Conf. on Information Sciences and Systems (CISS)*, pp. 1–6, March 2018

3. **V. S. S. Nadendla**, E. Akyol, C. Langbort, and T. Başar, "Strategic Communication between Prospect Theoretic Agents over a Gaussian Test Channel," in *Proc. of the 2017 IEEE Military Communications Conference (MILCOM)*, pp. 109–114, Oct 2017

Grad. Student @ Syracuse Univ. and Louisiana State Univ. (Before Dec 2016)

1. **V. S. S. Nadendla**, C. Langbort, and T. Başar, "Effects of Subjective Biases on Strategic Information Transmission," *IEEE Trans. on Comm.*, vol. 66, pp. 6040–6049, Dec 2018
2. **V. S. S. Nadendla**, V. Sharma, and P. K. Varshney, "On Strategic Multi-Antenna Jamming in Centralized Detection Networks," *IEEE Signal Processing Letters*, vol. 24, pp. 186–190, Feb 2017
3. **V. S. S. Nadendla**, S. K. Brahma, and P. K. Varshney, "Optimal Spectrum Auction Design With 2-D Truthful Revelations Under Uncertain Spectrum Availability," *IEEE/ACM Trans. on Networking*, vol. 25, pp. 420–433, Feb 2017
4. **V. S. S. Nadendla** and P. K. Varshney, "Design of Binary Quantizers for Distributed Detection Under Secrecy Constraints," *IEEE Trans. on Signal Proc.*, vol. 64, pp. 2636–2648, May 2016
5. **V. S. S. Nadendla**, S. Brahma, and P. K. Varshney, "Towards the Design of Prospect-Theory based Human Decision Rules for Hypothesis Testing," in *Proc. of the 54th Annual Allerton Conf. on Communication, Control, and Computing (Allerton)*, pp. 766–773, Sep. 2016
6. B. Kailkhura, **V. S. S. Nadendla**, and P. K. Varshney, "Distributed Inference in the Presence of Eavesdroppers: A Survey," *IEEE Comm. Magazine*, vol. 53, pp. 40–46, June 2015
7. **V. S. S. Nadendla**, S. Liu, and P. K. Varshney, "Design of Transmit-Diversity Schemes in Detection Networks under Secrecy Constraints," in *Proc. of the 53rd Annual Allerton Conf. on Communication, Control, and Computing (Allerton)*, pp. 794–801, Sep. 2015
8. **V. S. S. Nadendla**, Y. S. Han, and P. K. Varshney, "Information-Dispersal Games for Security in Cognitive-Radio Networks," in *Proc. of the 2015 IEEE Intl. Symp. on Information Theory (ISIT)*, pp. 1600–1604, June 2015
9. **V. S. S. Nadendla**, Y. S. Han, and P. K. Varshney, "Distributed Inference With M-Ary Quantized Data in the Presence of Byzantine Attacks," *IEEE Trans. on Signal Processing*, vol. 62, pp. 2681–2695, May 2014
10. R. El-Bardan, **V. S. S. Nadendla**, S. Brahma, and P. K. Varshney, "On ARQ-based Wireless Communication Systems in the Presence of a Strategic Jammer," in *Proc. of the 2014 IEEE Global Conference on Signal and Information Processing (GlobalSIP)*, pp. 273–277, Dec 2014
11. **V. S. S. Nadendla**, S. Brahma, and P. K. Varshney, "A Bilateral-Market based Mechanism for Spectrum Allocation in Cognitive Radio Networks," in *Proc. of the 5th IEEE International Workshop on Computational Advances in Multi-Sensor Adaptive Processing (CAMSAP)*, pp. 444–447, Dec 2013

12. A. Vempaty, **V. S. S. Nadendla**, and P. K. Varshney, "Further Results on Noise-Enhanced Distributed Inference in the Presence of Byzantines," in *Proc. of the 16th International Symposium on Wireless Personal Multimedia Communications (WPMC)*, pp. 1–5, June 2013

13. **V. S. S. Nadendla**, S. Brahma, and P. K. Varshney, "An Auction-Based Mechanism for Dynamic Spectrum Allocation in Participatory Cognitive Radio Networks," in *Proc. of the 50th Annual Allerton Conference on Communication, Control, and Computing (Allerton)*, pp. 2120–2126, Oct 2012

14. **V. S. S. Nadendla**, H. Chen, and P. K. Varshney, "Minimax Games for Cooperative Spectrum Sensing in a Centralized Cognitive Radio Network in the Presence of Interferers," in *Proc. of the 2011 Military Communications Conference*, pp. 1256–1260, Nov 2011

15. M. Gagrani, P. Sharma, S. Iyengar, **V. S. S. Nadendla**, A. Vempaty, H. Chen, and P. K. Varshney, "On Noise-Enhanced Distributed Inference in the Presence of Byzantines," in *Proc. of the 49th Annual Allerton Conference on Communication, Control, and Computing (Allerton)*, pp. 1222–1229, Sep. 2011

16. M. Naraghi-Pour and **V. S. S. Nadendla**, "Secure Detection in Wireless Sensor Networks using a Simple Encryption Method," in *Proc. of the 2011 IEEE Wireless Communications and Networking Conference*, pp. 114–119, March 2011

17. **V. S. S. Nadendla**, H. Chen, and P. K. Varshney, "On Jamming Models against Collaborative Spectrum Sensing in a Simple Cognitive Radio Network," in *2010 Conference Record of the Forty Fourth Asilomar Conference on Signals, Systems and Computers*, pp. 961–965, Nov 2010

18. **V. S. S. Nadendla**, H. Chen, and P. K. Varshney, "Secure Distributed Detection in the Presence of Eavesdroppers," in *2010 Conference Record of the Forty Fourth Asilomar Conference on Signals, Systems and Computers*, pp. 1437–1441, Nov 2010

Technical Reports

R1. O. Ozdemir, A. L. Drozd, I. Kasperovich, A. Croneiser, P. K. Varshney, W. Du, H. Chen, and **V. S. S. Nadendla**, "Cyber Superiority for Air Force Combatant Commanders: Integrated Air/Space/C2/Cyber Dynamic Spectrum Exploitation for Enhanced Cyber Domain Maneuverability and Security," *Department of Defense Electromagnetic Environmental Effects (DoD E3) Program Review*, Tampa, FL, Apr. 2010.

TALKS

Workshops (Abstracts Published, Not Peer-Reviewed)

W1. On the Effects of Subjective Biases on Strategic Information Transmission between Human Agents, *Midwest Workshop on Control and Game Theory*, Lansing, MI, April 28, 2018.

W2. Strategic Communication between Prospect Theoretic Agents over a Gaussian Test Channel, *Midwest Workshop on Control and Game Theory*, Ann Arbor, MI, April 21, 2017.

W3. Optimal Spectrum Auction Design with Two-Dimensional Truthful Revelations under Uncertain Spectrum Availability, *Nunan Day Workshop*, Syracuse, April 5, 2016. (Best poster award in EECS dept.)

W4. Secure Distributed Inference in the Presence of Eavesdroppers, *Nunan Day Workshop*, Syracuse, April 6, 2015. (Best poster award in EECS dept.)

W5. Auction-based mechanism for joint spectrum sensing and allocation in cognitive radio networks, *Nunan Day Workshop*, Syracuse, April 6, 2013.

W6. Distributed Detection in the Presence of Eavesdroppers, *DIMACS Workshop on Information Theoretic Network Security*, Rutgers University, Piscataway, NJ, November 14, 2012.

W7. Effect of Jamming on Distributed Spectrum Sensing in a Cognitive Radio Network, *Nunan Day Workshop*, Syracuse, April 13, 2012.

W8. Cyber Superiority for Air-force Combatant Commanders: Integrated Air/Space/C2/Cyber Dynamic Spectrum Exploitation for Enhanced Cyber Domain Maneuverability and Security, *Complex Networks Workshop*, Arlington, VA, December 2, 2011.

Invited Talks

T1. EEG-based Spiking Neural Networks for Braking Intent Detection on Neuromorphic Hardware, Computer Science Department Seminar, University of Missouri - Columbia, Feb. 21, 2024.

T2. Towards a Secure and Trustworthy Ecosystem of Connected and Autonomous Vehicles, STL-CyberCon, University of Missouri at Saint Louis, Nov. 2022.

T3. Fair, Perceptual Learning for Trustworthy Socio-Technical Systems, Dept. of Computer Science, Missouri University of Science and Technology, 2020.

T4. Distributed Inference with M-ary Quantized Data in the Presence of Byzantine Attacks, Army Research Laboratory, Adelphi, MD, June 20, 2017.

T5. Distributed Inference with M-ary Quantized Data in the Presence of Byzantine Attacks, BLISS Laboratory, Arizona State University, June 3, 2015.

TEACHING

Missouri University of Science and Technology
(Role: Instructor/Guest Lecturer)

- CS 5408 - Game Theory for Computing: Fall 2021, Fall 2022, Fall 2023, Fall 2024 (Planned)
- CS 6406 - Machine Learning for Computer Vision: Spring 2022, Spring 2023, Spring 2024
- CS 2500 - Algorithms: Fall 2018, Spring 2022, Spring 2023, Spring 2024
- CS 6001 - Algorithmic Game Theory: Spring 2020, Spring 2021
- CS 5001 - Game Theory for Computing: Fall 2019, Fall 2020
- CS 6204 - Applied Graph Theory (Guest Lect.: Matching and Factors): Spring 2019

University of Illinois at Urbana-Champaign
(Role: Guest Lecturer)

- AE 504 - Optimal Aerospace Systems (Guest Lect.: Model Predictive Control), Fall 2017

Syracuse University
(Role: Guest Lecturer)

- ECS 691 - Fundamentals of Research (Guest Lect.: Technical Illustration), Fall 2013

Louisiana State University
(Role: Teaching Assistant/Lab Instructor)

- Digital Design Lab using Verilog HDL (Lab Instructor), Spring 2009
- Probability Theory & Random Processes (Teaching Assistant), Fall 2008
- Signals & Systems (Teaching Assistant), Spring 2008, Fall 2008
- Electric & Magnetic Fields (Teaching Assistant), Fall 2007, Spring 2008

CURRENT STUDENTS

Ph.D. Students

- Mukund Telukunta (My Role: Primary Advisor)
- Nathan Lutes (My Role: Co-Advisor, Primary Advisor: K. Krishnamurthy - MAE dept.)
- Luke Holliday (My Role: Co-Advisor, Primary Advisor: Sanjay Madria)
- Doris E. M. Brown (My Role: Co-Advisor, Primary Advisor: Sajal K. Das)

B.S. Students

- Gabriella Stickney (NSF REU Intern from Michigan State University)
- Sukruth Rao (NSF REU Intern from Michigan State University)

PAST STUDENTS

Ph.D. Students

- Qizi Zhang (Co-Advisor and Acting Chair; Primary Advisor: Late S. N. Balakrishnan), *Quantum-Inspired Concepts in Decision Making*, Missouri S&T, Spring 2021.

MS Students

- Sree Pooja Akula, *Dynamic Discounted Satisficing based Driver Decision Prediction in Sequential Taxi Requests*, Missouri S&T, Spring 2023
- Nikola Andric, *MAT: Genetic Algorithms based Multi-Objective Adversarial Attack on Multi-Task Deep Neural Networks*, Missouri S&T, Spring 2023
- Sainath Sanga, *Maximizing Social Welfare in Selfish Multi-Modal Routing using Strategic Information Design for Quantal Response Travelers*, Missouri S&T, Summer 2022.
- Mounica Devaguptapu, *On Predicting Stopping Time of Human Sequential Decision Making using Discounted Satisficing Heuristic*, Missouri S&T, Summer 2020.

B.S. Students

- Conrad Newry (SERA Intern @ Missouri S&T), Benedict College (HBCU), SC, Summer 2022.
- Nikola Andric, Missouri S&T, Summer 2021.
- Andrew Sunarto, Missouri S&T, Spring 2021.
- Mukul Gagrani (co-advised), Syracuse University, Summer 2011
- Pranay Sharma (co-advised), Syracuse University, Summer 2011

THESIS COMMITTEE MEMBERSHIP (OTHER THAN STUDENTS SUPERVISED)

Total Graduate Students: 44

- **Ph.D. Students:** 36 (includes 12 out-of-dept students)
- **M.S. Students:** 11

PROFESSIONAL SERVICE

NSF Panels and Workshops

- Reviewer, NSF Graduate Research Fellowship Program (GRFP), Comp Sci 3 Panel (Artificial Intelligence; Machine Learning; Natural Language Processing), 2022-23.
- NSF CISE Career Workshop 2019, Alexandria, VA, USA, April 8-9, 2019.
- NSF's S&CC Aspiring PI Workshop (Travel Grant Recipient), Kansas City, MO, USA, September 17, 2018.

Publication Co-Chair

- WoWMoM 2022, Belfast, United Kingdom.

Technical Program Committee Member

- SMARTCOMP 2021, Virtual Conference.

Session Chair & Organizer

- Invited Session on "Human-System Interaction", CISS 2018, Princeton, NY.

Judge

- MLH's Hack Day 2018, ACM's SIG-HACK Community, Missouri S&T, Dec. 1, 2018.
- Intelligent Systems Center Poster Competition 2018, Missouri S&T, Nov. 13, 2018.

Reviewer

- *Journals:* IEEE Trans. Signal Processing, IEEE Signal Processing Letters, IEEE Trans. Wireless Communications, IEEE Communication Letters, IEEE Wireless Communication Letters, IEEE J. Special Areas in Communication (Sp. Issue: Human-in-the-Loop Mobile Networks),

IEEE Trans. Signal & Information Processing over Networks, IET Communication, IET Networks, IET J. Engineering, International J. Ad Hoc & Ubiquitous Computing, Sensors, Pervasive and Mobile Computing, Peer-to-Peer Networking and Applications, IEEE Control Systems Letters, IEEE Trans. on Dependable and Secure Computing, IEEE Trans. on Network and Service Management.

- *Conferences:* ISIT-2012, ICC-2014, ICC-2015, ICC-2018, INFOCOM-2019, AISTATS 2022, WoWMoM 2022.

Computer Science Department, Missouri S&T

- Graduate Program Committee, 2021-22, 2023-Current
- Faculty Ambassador Committee, 2021-Current
- Department Chair Search Committee, 2021-23
- Tenure-Track Faculty Search Committee, 2019-20, 2022-23.
- Professional Graduate Studies Committee, 2022
- Academic Advisor Search, Spring 2022
- Staff Search Committee, 2021
- Research Assistant Professor Search Committee, Summer 2020.
- Represented CS dept on Discovery Day: Oct 2019 and Apr 2020.
- Representing CS dept on Open House Day: Apr 2021.

College/University, Missouri S&T

- CEC Emerging Research Committee, Fall 2020 - Current
- Advisor, Game Development Club (Student Organization)
- Judge, Local Hack Day, SIGHACK
- Judge, Intelligent Systems Center Graduate Research Symposium, April 3, 2019.
- Judge, Intelligent Systems Center Poster Competition, November 13, 2018.

AWARDS & ACHIEVEMENTS

Missouri S&T

- *Best Paper Candidate* (Among top-3 papers), SMARTCOMP 2019.
- *Travel Grant*, NSF S&CC Aspiring PI Workshop, ISC2 2018.

Syracuse University

- *Best EECS Poster Award*, Nunan Poster Competitions 2015 & 2016

SCSVMV University

- *University Gold Medal* for securing the highest rank in BE (ECE) degree examinations in the period 2003-2007.

- *Dr. S. Subbulakshmi Endowment Cash Prize* for securing the highest score in the university examinations, SCSVMV University, India in the period 2003-2007.
- *Dr. S. Suryanarayanan Endowment Cash Prize* for securing the highest score in Chemistry in the university examinations, SCSVMV University, India in the year 2003-2004.

EXTRACURRICULAR ACTIVITES

Co-Founder/Vice-President/Treasurer Aug 2013 - Dec 2015
SPICMACAY@SU, Graduate Student Organization *Syracuse University*

- Organizational Structure, Concert Planning/Management, Annual Budgets & Proposals, Networking.
- Collaboratively raised about $20,000 and co-organized 5 concerts of Indian Classical Music and Dance in Syracuse University.