THI TRAN, Ph.D.

Assistant Professor of Management Information Systems

School of Management, Binghamton University, State University of New York
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Research Gates: https://www.researchgate.net/profile/Thi-Tran-57
Google Scholars: https://scholar.google.com/citations?user=L23zYkQAAAAJ&hl=en

EDUCATION

Ph.D. in Information Technology   **Aug 2022**

The University of Texas at San Antonio, Texas, US. *GPA: 3.87/4.0.*

Main Research Streams: Misinformation Harms During Crises, Expressed Misinformation Uncertainty and Misinformation Handling System Design.

Teaching experience: 4 semesters, both face-to-face and online. Average rating: 4.48/5.0.

Advisors: Dr. H. Raghav Rao and Dr. Rohit Valecha.

Master of Science in Information Technology & Management   **2017**

The University of Texas at Dallas, Richardson, Texas, US. *GPA: 3.67/4.0.*

Concentrations: Business Data Analytics, Data Science, and IT Project Management.

Bachelor of Business Administration   **2004**

The University of Economics, Ho Chi Minh City, Vietnam.

Concentrations: Human Resource Management, Marketing & Strategic Management.

ACADEMIC EXPERIENCE

Binghamton University, State University of New York (SUNY)   **August 2022 - Present**
Tenure track Assistant Professor of Management Information Systems
School of Management.

The University of Texas at San Antonio   **2018 - 2022**
Graduate Research Assistant, Co-PIs Research Grant Proposals, Instructor
Department of Information Systems and Cyber Security.

RESEARCH

Main Domains:

- Cyber Security, Information Integrity and Information Assurance (Misinformation harms, misinformation mitigation, misinformation conversions, misinformation handling systems, data breach, phishing e-mails, fake social media accounts).
- Emergency responses during humanitarian crises.
- Cyber Security in healthcare and political conflicts.
- Healthcare and Cyber Security Policies' compliance.

Research Methods: Behavioral Surveys, Longitudinal Studies, Exploratory Research, Experimental Studies, Econometrics – Structural Equation Modeling (SEM), Delphi Technique, Psychometric

Analyses, Factor Analyses, Measurement Development, Design Science Research, Social Media Data Mining, Applied Machine Learning – Deep Learning, Supervised and Unsupervised Learning, Applied Natural Language Processing – Sentiment Analyses, Systematic Literature Reviews.

TEACHING

Teaching experience:

Teaching Experience:

- MIS 450/550 – IT Security and Forensics (undergraduate and graduate levels). Fall 2022 and Spring 2023. Topics: IT, IS, Network Security, Information Assurance, Digital Forensics. Teaching evaluation: **4.7/5.0 (Spring 2023).**
- MIS 480N/580N – Emerging Issues and Cyber Security (undergraduate and graduate levels). Spring 2023. Topics: Connections between Cyber Security and Emerging Technologies (applied Machine Learning / Artificial Intelligence, Data Visualization, Big Data Analytics, Internet of Things). Teaching evaluation: **4.7/5.0 (Spring 2023).**
- IS 3003 – Principles of Information Systems for Management. Fall 2020 to Spring 2022. *Focus topics:* Data Analytics and Cybersecurity. Teaching evaluation: **4.5/5.0 (2021).**

Teaching Assistants for Graduate courses: IS 6383 Policy Assurance for Infrastructure Assurance; Ph.D. Seminar IS 7033 Behavioral and Organizational ISCS Research (*08-2019 to 05-2020*).

Teaching interests: Cyber Security, Information Assurance, Cyber Forensics, Principles of MIS, Database Management, Data Mining, Data Analytics, Machine Learning, IT Project Management, and other Data Analytics and Cyber Security courses.

HONOR(S) AND AWARD(S)

Outstanding Doctoral Student Research Paper Award to **Thi Tran**. *(Awarded: December 12, 2021).* For paper: "User Engagement and Uncertainty from COVID-19 Misinformation on Social Media: An Examination of Emotions and Harms". *By: Pre-ICIS 2021 Workshop on Information Security and Privacy (WISP 2021), AIS SIGSEC (Special Interest Group on Information Security and Privacy).* Amount: $1,000.

PEER REVIEWED JOURNAL PUBLICATIONS

Thi Tran, Rohit Valecha, Raghav H. Rao. (**2023**). Mitigation of Misinformation Harms during Crises: An Activity Theory Approach for Examining Machine and Human Roles. *International Journal of Information Management (IJIM)*, Volume 70, June 2023, 102627, https://doi.org/10.1016/j.ijinfomgt.2023.102627 *[2023 records: ABDC rating A*, Cite Score 41.9, Impact Factor 21.00]*

Thi Tran, Rohit Valecha, & Raghav H. Rao. (**2022**). Health-Related Misinformation Harm during the COVID-19 Pandemic: An Investigation of Non-comparative and Comparative Harm Perceptions. *AIS. Transactions on Human-Computer Interaction, The Special Issue on Fake News and Deception*. 14(2), 185-206. https://doi.org/10.17705/1thci.0010166. *[2023 ABDC rating A, 2020 Impact Factor: 3.92]*

Thi Tran, Rohit Valecha, Paul Rad, & Raghav H. Rao. (**2021**). An investigation of misinformation harms related to social media during two humanitarian crises. *Information Systems Frontiers 23, 931–939* https://doi.org/10.1007/s10796-020-10088-3. *[2023 ABDC rating A, 2022 Impact Factor: 6.0; 2022 Scopus Impact Score: 7.43; 2023 Google Scholars H-index: 73]*

Thi Tran, Rohit Valecha, Paul Rad, & Raghav H. Rao. (**2020**). Misinformation Harms: A Tale of Two Humanitarian Crises. *IEEE Transactions on Professional Communication*, 63(4), 386-399. DOI: 10.1109/TPC.2020.3029685. *[2023 ABDC rating B, 2022 Impact Factor: 1.447]*

UNDER REVIEW JOURNAL MANUSCRIPTS

Thi Tran, Rohit Valecha, & Raghav H. Rao. (**3ʳᵈ round of revision**). Misinformation In The Context Of COVID-19 Pandemic: An Investigation Of Harm Characteristics And Related Social Media Conversations. *MIS. Quarterly*.

Thi Tran, Rohit Valecha, David Han, & Raghav H. Rao (**Under review**). Dual Reactions To Vaccine Misinformation: An Investigation Of The Impact Of Beliefs And Perceived Harms On Vaccination Acceptance And Misinformation Sharing. *MIS. Quarterly*.

Md. Saiful Islam, Marc N. Potenza, Sabbir Pervez, Md. Hasan Al Banna, Nargees Akter, Shadia Yesmin Ani, **Thi Tran**, Lakshmi Rani Kundu, Zebunnesa Zeba, Mst. Sabrina Moonajilin, Mahfuza Mubarak, Md Tajuddin Sikder (**Under review**). Diabetes distress and depressive symptoms in individuals with type-2 diabetes mellitus during and after Ramadan fasting in Bangladesh amid the COVID-19 pandemic: A prospective follow-up study. *Asian Journal of Psychiatry Journal*.

FORTHCOMING JOURNAL SUBMISSIONS

Thi Tran, Pranali Mandaokar, Naga Vemprala, Rohit Valecha, Govind Hariharan, & Raghav H. Rao. (**Finalizing manuscript**). User Engagement on Social Media During Health Crises: The Role of Conversational Uncertainty, Emotions and Risks on COVID-19 Misinformation Sharing. *(Manuscript preparation for the Information Systems Research (ISR) Journal)*.

Sumantra Sarkar, **Thi Tran**, Yu Chen. (**Finalizing manuscript**). Digital Twins – A Design To Strengthen Metaverse Applications. (*To be submitted to the Special Issue of "Fostering the Design and Governance of the Metaverse", Journal of Management Information Systems (JMIS), 2023*).

Sumantra Sarkar, **Thi Tran**, Subimal Chatterjee, Debjit Gupta, Sathwik Krishtipati, Bao Do, Anh Ngo. (**In progress**). Data breaches and reactions on social media: How the breach incidents can lead to emotions, sufferings and behaviors. *(Data processing and manuscript preparation for MIS Quarterly)*.

PEER REVIEWED CONFERENCE PROCEEDINGS PUBLICATIONS

Xilin Zhang, **Thi Tran**, Lulu Al-Arfaj, Zeynep Ertem, and Sumantra Sarkar**. (2023).** Two Faces of Truth and Lie: The Vacillation of Misinformation from Information. *Proceedings of the International Conference on Secure Knowledge Management 2023*, September 22-23, 2023, Tempe, Arizona, USA.

Thi Tran, Zeynep Ertem, Xilin Zhang, Sumantra Sarkar**. (2023).** Human and AI Interactions in the Age of Lies: Understanding ChatGPT as Multi-Dimensional Tools Handling Online Misinformation. *Proceedings of the Annual IDeaS 2023 Conference: Disinformation, Hate Speech, and Extremism Online (September 22, 2023)*. Operated by Center for Informed Democracy & Social - cybersecurity (IDeaS), Carnegie Mellon University.

Seden Akcinaroglu, Ekrem Karakoc, **Thi Tran**, Yu Chen, and Chin-Tser Huang. (**2023**). An Exploration of the Influence of Misinformation and Deterring Technologies. *Proceedings of the Annual IDeaS 2023 Conference: Disinformation, Hate Speech, and Extremism Online (September 22, 2023)*. Operated by Center for Informed Democracy & Social - cybersecurity (IDeaS), Carnegie Mellon University. https://www.cmu.edu/ideas-social-cybersecurity/events/ideas2023_paper_8501.pdf

Thi Tran. (2023). Human – machine interactions in fake news era: An integrated data analytics and behavioral approach. Proceedings of *SPIE 12542, DCS213 - Disruptive Technologies in Information Sciences VI*, 125420O (15 June 2023); Special Session: HoTGAME: Hold the Truth Ground Against the Misinformation/Disinformation Era. https://doi.org/10.1117/12.2663984

Thi Tran, Oluwafemi Akanfe, Anh Dang. (**2023**). Implementations of blockchain applications to fight fake news: An applicability and acceptance investigation framework. Proceedings of *SPIE 12542, DCS213 -*

Disruptive Technologies in Information Sciences VI, 125420Q (15 June 2023); Special Session: HoTGAME: Hold the Truth Ground Against the Misinformation/Disinformation Era. https://doi.org/10.1117/12.2663953

Anh Dang, **Thi Tran**, Oluwafemi Akanfe. **(2023).** Easy money? Examining the trustworthiness of HYIP. Proceedings of *SPIE 12542, DCS213 - Disruptive Technologies in Information Sciences VI*, 125420R (15 June 2023); Special Session: HoTGAME: Hold the Truth Ground Against the Misinformation/Disinformation Era. https://doi.org/10.1117/12.2663964

Thi Tran, Pranali Mandaokar, Naga Vemprala, Rohit Valecha, Govind Hariharan, & Raghav H. Rao. **(2021).** User Engagement and Uncertainty from COVID-19 Misinformation on Social Media: An Examination of Emotions and Harms. *Pre-ICIS 2021 Workshop on Information Security and Privacy (WISP 2021),* AIS SIGSEC (Special Interest Group on Information Security and Privacy). Awarded Outstanding Doctoral Student Paper. https://aisel.aisnet.org/wisp2021/1

Thi Tran, Pranali Mandaokar, Naga Vemprala, Rohit Valecha, Govind Hariharan, & Raghav H. Rao. **(2021).** Conversational Uncertainty from Misinformation in Social Media during COVID-19: An Examination of Emotions. *Proceedings of the Annual IDeaS Conference: Disinformation, Hate Speech, and Extremism Online, 2021*. Operated by Center for Informed Democracy & Social - cybersecurity (IDeaS), Carnegie Mellon University.

Thi Tran, Rohit Valecha, David Han, & Raghav H. Rao. **(2021).** The Role of Trust and Risk Tolerance on Perceived Psychological Harms from COVID-19 Vaccine Misinformation. *IFIP WG8.11/WG11.13 Conference on Information Systems Security Research, San Antonio, Texas, October 2021*.

Thi Tran, Rohit Valecha, Paul Rad, & Raghav H. Rao. **(2020).** False Claims Hurt: Examining Perceptions of Misinformation Harms during Black Lives Matter Movement. *Proceedings of the Conference on Social – Cybersecurity in Times of Crisis and Changes* - IDeaS Virtual Conference – Center for Informed Democracy and Social Cybersecurity, Carnegie Melon University.

Thi Tran, Rohit Valecha, Paul Rad, & Raghav H. Rao. **(2020)** An Investigation of Misinformation Harms Related to Social Media During Humanitarian Crises. *Proceedings of the International Conference on Secure Knowledge Management in Artificial Intelligence Era 2019,* Goa, India. Chapter in book: Sahay S., Goel N., Patil V., Jadliwala M. (eds) SKM 2019. Communications in Computer and Information Science, vol 1186 (pp. 167-181). Springer, Singapore. https://doi.org/10.1007/978-981-15-3817-9_10

Thi Tran, Rohit Valecha, Paul Rad, Raghav H. Rao. **(2020).** Misinformation in Crises: A Conceptual Framework for Examining Human-Machine Interactions. *2020 IEEE / ITU International Conference on Artificial Intelligence for Good (AI4G)*, Geneva, Switzerland, 2020, pp. 46-50, doi: 10.1109/AI4G50087.2020.9311010.

Thi Tran, Rohit Valecha, Paul Rad, & Raghav H. Rao. **(2019).** Misinformation Harms During Crises: When The Human And Machine Loops Interact. *Proceedings of the 2019 IEEE International Conference on Big Data (Big Data)*, Los Angeles, CA, USA, 2019, pp. 4644-4646, doi: 10.1109/BigData47090.2019.9005561.

Thi Tran, Rohit Valecha, Paul Rad, & Raghav H. Rao. **(2019).** Taxonomy of (Mis)Information Harms in Humanitarian Crises. Proceedings of the *American Conference of Information Systems 2019*, Cancun, Mexico. 92. https://aisel.aisnet.org/amcis2019/treo/treos/92

WORKSHOP PRESENTATION

Thi Tran, Rohit Valecha, & Raghav H. Rao. **(2021).** Mitigation of Misinformation Harms During Crises: An Activity Theory Approach For Examining Machine And Human Roles. *Accepted and presented at the MISQ Author Development Workshop 2021.*

INVITED TALKS

Thi Tran (2022). Machine and Human Roles for Mitigation of Misinformation Harms during Crises: An Activity Theory Conceptualization and Validation. *First TAE Data Salon Session, 10/14/2022.* Organized by TAE Data Science Organization, Binghamton University.

Thi Tran (2023). Hybrid Academic Talk about Ph.D. admissions, Academic career paths, Ph.D. recruitment, STEM majors, Management Information Systems discipline, and Computer Science discipline. *EDUCAS Study Abroad Services Headquarters*, Ho Chi Minh City, Vietnam, July 2023. Attended on site and live session online audiences: around 200 people (incoming US students and / or their parents).

Thi Tran (2023). Dual Reactions To Vaccine Misinformation: An Investigation Of The Impact Of Beliefs And Perceived Harms On Vaccination Acceptance And Misinformation Sharing. *Interdisciplinary Talk Series for Fall 2023* at School of Management, Binghamton University, SUNY.

Thi Tran (2023). Information Systems Lenses of Social – Cybersecurity Issues. *Invited Talk within Binghamton University's Cybersecurity Briefing Session 2*, VSU (Virginia State University) Cybersecurity Team Visiting, September 25, 2023. Hosted by: Professor Yu Chen, Department of Electrical and Computer Engineering, Binghamton University.

AWARDED RESEARCH GRANTS

Awarded Federal Research Grant: *National Science Foundation (NSF)* Doctoral Dissertation Grant. *(Approval: November 2021; **Released date: February 2022**, Extended until: February 2024).* PI: Raghav H. Rao; Co-PI: Rohit Valecha, & **Thi Tran**. "DDRIG in DRMS: COVID Vaccine Misinformation Harms: An Investigation of Harm Perceptions and Related Harm Communications on Social Media." *By: National Science Foundation (NSF) – Decision, Risk, and Management Science (DRMS) Doctoral Dissertation Research Improvement Grants (DDRIGs).* Amount awarded: $29,850.

Ph.D. Excellence Fund Grant. *(Approval: November 2020).* **Thi Tran (PI)**, Rohit Valecha, David Han, & Raghav H. Rao. "Misleading Claims during Pandemic: Aspects and Consequences of Perceived COVID 19 Vaccine Misinformation Harms". *The University of Texas at San Antonio*. Amount awarded: $8,000.

Thi Tran. 5 Ph.D. Excellence Research Grants, *The University of Texas at San Antonio (from 2018 to 2021)*. Amounts awarded range from $1,500 to $3,500.

Thi Tran. 3 Ph.D. Excellence Travel Grants to attend ICIS Conference 2021, AMCIS Conference 2019, and IEEE Big Data Conference 2019, *The University of Texas at San Antonio*. Amounts awarded range from $1,500 to $2,300.

UNDER REVIEW RESEARCH GRANT PROPOSALS

PI: Seden Akcinaroglu; Co-PIs: Yu Chen, Ekrem Karakoc, and **Thi Tran**. **(Under Review).** "The Invisible Weapon: A Comprehensive Study of Misinformation in Conflicts Across Nations". *National Science Foundation (NSF) – Security Preparedness Program (SPP) proposal.* Submitted: August 12, 2023. Proposed timeline: Feb. 2024 – Feb. 2027. Requested grant: $1,200,000.

PI: Jinglu Jiang; Co-PI: Xuecong Lu; Senior Personnel: Surinder Kahai and **Thi Tran**. **(Under Review).** Empowering Users Information Validation Combat Misinformation with Attentional-Control-Based Nudging in Fact-Checkers. *National Science Foundation (NSF) research proposal.* Submitted: August 21, 2023. Proposed timeline: Jan. 2024 – Dec. 2026. Requested grant: $570,459.

IN PROGRESS COLLABORATIVE RESEARCH GRANT PROPOSALS

Co-PIs: **Thi Tran**, H.R. Rao, Rohit Valecha. **(In progress).** "Examining Structural And Sentimental Inconsistencies: A Corroboration Theory Approach To Vaccine Misinformation Detection". In preparation

for: *RFA-IP-23-006 - Developing a Public Health Tool to Predict the Virality of Vaccine Misinformation Narratives*. By: CDC- Centers for Disease Control and Prevention. Requesting grant: To be decided.

Co-PIs: **Thi Tran**, H.R. Rao, Rohit Valecha**. (In progress).** "Investigating The Consequences of Social Media Misinformation During Emergencies: The Role Of Expressed Perceptions, Sufferings and Decisions". In preparation for: *Secure and Trustworthy Cyberspace (SaTC) program*. By: National Science Foundation. Requesting grant: $600,000.

Co-PIs: **Thi Tran**, Rohit Valecha, Raghav H. Rao. Examining Structural And Sentimental Inconsistencies: A Corroboration Theory Approach To Vaccine Misinformation Detection. (*In progress, to be submitted to National Health Institute (NIH) – Center for Diseases Control (CDC) for research grant*).

Co-PIs: **Thi Tran,** Zeynep Ertem, Sumantra Sarkar. **(In progress).** "Investigating The Public Compliance And Effectiveness Of Health Guidelines During Health Crises: A Multi Crises Study Across Counties In The United States". In preparation for: *CDC- Centers for Disease Control and Prevention, or: NIH – National Institute of Health* (to be decided). Requesting grant: To be decided.

Co-PIs: **Thi Tran,** Sumantra Sarkar, Subimal Chatterjee, Debjit Gupta. **(In progress).** "Examining Antecedents of Public Reactions facing Data Breach Incidents from S&P500 Corporates". In preparation for: *National Science Foundation funding* (to be decided). Requesting grant: To be decided.

Co-PIs: **Thi Tran,** Sumantra Sarkar, Yu Chen, Zeynep Ertem. **(In progress).** "Investigating The Applications of Blockchain Technologies to Fight Misinformation Online". In preparation for: *National Science Foundation funding* (to be decided). Requesting grant: To be decided.

Co-PIs: **Thi Tran,** Sumantra Sarkar, Yu Chen, Zeynep Ertem. **(In progress).** "Implementing Generative AI to Handle Flows of Misinformation and Counter-Misinformation Online – A Case of ChatGPT". In preparation for: *National Science Foundation funding* (to be decided). Requesting grant: To be decided.

Co-PIs: **Thi Tran,** Sumantra Sarkar, Yu Chen, Zeynep Ertem. **(In progress).** "Examining The Mechanism of Misinformation – True Information Transformation Online". In preparation for: *National Science Foundation funding* (to be decided). Requesting grant: To be decided.

OTHER RESEARCH GRANT PROPOSALS AND COLLABORATIONS

Co-PIs: **Thi Tran**, Rohit Valecha, and H. Raghav Rao. "EArly-concept Grants for Exploratory Research (EAGER): Developing a Training Curriculum for Online Health-Related Misinformation Harms". *National Science Foundation (NSF) - Secure and Trustworthy Cyberspace (SaTC)* program. Educational funding, in response to the Dear College Letter (DCL) NSF 23-091 - Supporting Cybersecurity & Privacy Education and Workforce Development. Submitted: May 2023. Requested grant: $300,000 in two years.

PI: Yu Chen; Co-PIs: David Klotzkin, Xiaohua Li, Guanhua Yan, and Wenfeng Zhao; Senior Personnel: Sumantra Sarkar, Ekrem Karakoc, Seden Akcinaroglu, and **Thi Tran**. "MRI: Track 2 Development of an Integrated Terahertz Quantum Secured Edge Network (I-TeQ) Testbed". *National Science Foundation (NSF) research proposal*. Submitted: Feb 22, 2023. Proposed timeline: Oct. 01, 2023 – Sept. 30, 2026. Requested grant: $2,600,000.

Co-PIs: Seden Akcinaroglu, Yu Chen, Ekrem Karakoc, **Thi Tran**. "Understanding and Deterring Dis/Misinformation in Post-Truth Era". *Center of Excellence in Data Science (CoE) Proposal.* Collaboration between Binghamton University and University of Rochester. Submitted: April 2023. Requested grant: $60,000.

Surinder Kahai, Jinglu Jiang, **Thi Tran**. "Engaging Users in Fact-Checking: An Attentional Control Perspective to Reduce Misinformation Harms". *Meta Research - 2022 Foundational Integrity Research request for proposals*. *(Submitted: November 2022)*. Organized by Meta Corporate (former Facebook). Requested grant: $100,000.

Co-PIs: H.R. Rao, Rohit Valecha, **Thi Tran. "**Online Social Media Misinformation About Vaccines During Health Crises: A Comparative Analysis of Public Reactions, Perceptions of Harms, Trust and Personal Biases in the US and India". *Meta Research - 2022 Foundational Integrity Research request for proposals. (Submitted: November 2022)*. Organized by Meta Corporate (former Facebook). Requested grant: $100,000.

H. R. Rao (PI), Rohit Valecha, Govind Hariharan, Rahul De, & **Thi Tran** (Co-PIs), in Collaboration with Boom (Indian fact-checker). "The Impact of Authoritative Sources and Fact-Checking on Perceptions of Misinformation Harms in India". *Facebook Research Grant Proposal. (Submitted: November 2021).* Joint project among The University of Texas at San Antonio, Kennesaw State University, Indian Institute of Management – Bangalore, and Boom Factchecker. Requested grant: $100,000.

H. R. Rao (PI), Rohit Valecha, Edward Golob, David Han, Govind Hariharan, Hazel Kwon, & **Thi Tran** (Co-PIs). "Collaborative: IIS-HCC: A Socio-Technical Investigation of Older Adults: Assessment of Misinformation Harms in Computer-Mediated Communication Networks under Humanitarian Crises". *National Science Foundation (NSF.) Research Grant Proposal. (Submitted: May 2021)*. Joint project among The University of Texas at San Antonio (Department of Information Systems and Cyber Security, Department of Management Science and Statistics, and Department of Psychology), Kennesaw State University (Department of Economics, Finance, and Quantitative Analysis), and Arizona State University (School of Human Communication). Requested grant: $1,000,000.

WORK IN PROGRESS

Thi Tran, Pranali Mandaokar, Naga Vemprala, Rohit Valecha, Govind Hariharan, & Raghav H. Rao. Social Engagement and Uncertainty from COVID-19 Misinformation on Social Media: An Examination of Emotions, Beliefs, Harms and Behaviors. *(Manuscript preparation, targeting MIS Quarterly Journal).*

Thi Tran, Rohit Valecha, & Raghav H. Rao. False Claims Hurt: Examining Perceptions of Misinformation Harms during Black Lives Matter Movement. (*Invited extended Conference proceedings paper to submit to the Special Issue of the Computational and Mathematical Organization Theory).*

Thi Tran, & Kim Kwang Raymond Choo. Applying Blockchain Technology in Fighting Fake News: A Survey. (*Manuscript preparation).*

Thi Tran. Blockchain Applications to Fight Fake News: An Applicability and Acceptance Investigation. (*Data collection).*

Thi Tran, & Paul Rad. Human – Machine Interactions in Fake News Era: A Proposed Multidimensional System of An Integrated Machine Learning and Behavioral Approach. (*Project in progress).*

Thi Tran, Anh Dang, Oluwafemi Akanfe, & Anuradha Roy. Examining Affecting Factors on the Trustworthiness and the Legitimacy of HYIP Websites. IEEE Transactions on Professional Communication. (*Manuscript preparation*).

PROFESSIONAL SERVICES

Invited Program Committee member, Bright Internet Global Symposium (BIGS) 2023 Virtual Workshop, December 8, 2023. Pre-ICIS (International Conference on Information Systems), Hyderabad, India, December 2023. http://brightinternet.org/

Invited Technical Program Committee member, International Conference on Secure Knowledge Management, September 22 – 23, 2023, Tempe, Arizona, USA. https://www.secure-km.org/committee/

Invited Co-Coordinating Editor of Information Systems Frontiers journal by Springer publisher (2023 Scopus Impact Factor 6.814, H-index 79). https://www.springer.com/journal/10796

Invited Hybrid (On-site and Online) International Academic Talk: "Difference Aspects of Study Abroad in STEM Fields To Support Vietnamese Potential International Students in USA". Hosted by Educas Study Abroad Company, Ho Chi Minh City, Vietnam. July 21, 2023. Topics: Computer Science, Information Systems, Artificial Intelligence, Cyber Security, Graduate Studies (masters, PhDs), American Education Systems, Scholarship and Funding Opportunities, Higher Education Study Abroad Motivation. https://www.facebook.com/duhoceducas/videos/288184300536023

Ad-hoc journal reviewer: Information Systems Frontiers journal (2021 and 2023), Computational and Mathematical Organization Theory (2022 – 2023).

Ad-hoc conference reviewer: Hawaii International Conference on System Sciences (HICSS) (2021 and 2022), IFIP WG8.11/WG11.13 Conference on Information Systems Security Research (2021).

Ad-hoc workshop reviewer: M.I.S. Quarterly Author Development Workshop (2021), Pre-ICIS 2023 Workshop on Information Security and Privacy (WISP 2023), Pre-ICIS Workshop on Information Security and Privacy (2021).

Volunteer: IFIP WG8.11/WG11.13 Conference on Information Systems Security Research (2021); UTSA Workshop for ISR SI on: Unleashing the Power of IT for Strategic Management of Disasters (2021).

Session Chair of The Social Media and Networking TREO Session: American Conference of Information Systems (AMCIS) 2019, Cancún, Mexico.

Moderator of "Ph.D. in US" Facebook group for Ph.D. applications and admissions information at US Universities (https://www.facebook.com/groups/707206596090136). Total members as of September 2023: around 33,100 members.

INSTITUTIONAL SERVICES

Organized Research Talk: *"Lessons on Research Proposal Writings"*. By: Professor Yu Chen, Department of Electrical and Computer Engineering, 09/29/2023. Audiences: Management Information Systems Faculty, School of Management, Binghamton University, SUNY.

Invited Talk: "Information Systems Lenses of Social – Cybersecurity Issues". In: BU Cybersecurity Briefing Session 1, VSU Cybersecurity Team Visiting – Collaborations between Virginia State University and Binghamton University. Engineering Building, Binghamton University, September 25, 2023.

Invited Talk: "VSU – BU Cybersecurity Collaboration". Organized by Professor Yu Chen, Electrical and Computer Engineering Department, Binghamton University. September 26, 2023.

Participated in the Fall 2024 Faculty Search Committee for tenure track Assistant Professor of Management Information Systems.

Volunteered for SOM Commencement, Stage faculty. Sunday, May 14, 2023.

Volunteered for SOM Day of Service activity participation, activity in conjunction with VINES (volunteers improving neighborhood environments). Friday, April 21, 2023.

Contributed to the Ph.D. in MIS planning, Fall 2022.

2023 – 2024 Committee Assignments for School of Management, Binghamton University, SUNY: Members of Technology Strategy Committee, and Undergraduate Programs Committee.

MENTORING STUDENTS

Hrishitva Patel. Fall 2022. Previous position: MS in Computer Science, Watson School of Engineering, Binghamton University, SUNY. Graduate Research Assistant, involved in 1 NSF funded research project about Misinformation Harms, and 1 Data Breach research project. Current position: fully funded Ph.D. in Information Technology student at The University of Texas at San Antonio.

Sathwik Krishtipati. From Spring 2023 till Present. MS in Computer Science, Watson School of Engineering, Binghamton University, SUNY. Recruited Graduate Research Assistant, involved in 3 different Cyber Security research projects.

Bao Do. From Summer 2023 till Present. Bachelor of Information Technology specialized in Data Science graduate, Ho Chi Minh City University of Information Technology (UIT), Vietnam. Involved in 2 NSF grant proposals and 3 Cyber Security research projects about Online misinformation conversations surrounding Russian – Ukraine war; S&P 500 companies' Data Breaches; Applied Blockchain technologies in fighting misinformation.

Tuan Anh Ngo. From Summer 2023 till Present. MS in Computer Science, joint program between International Institute of Information Technology Bangalore (India) and Liverpool John Moores University (UK). Senior iOS Developers at: California Fitness & Yoga; Positive Thinking Company; Amanotes; and Ersol Process & Technology Vietnam Co., Ltd. Involved in 2 NSF grant proposals and 3 Cyber Security research projects about Online misinformation conversations surrounding Russian – Ukraine war; S&P 500 companies' Data Breaches; Applied Blockchain technologies in fighting misinformation.

MEDIA COVERAGE

Anthony Borrelli. **(2023).** "Fighting Fake News: Research Helps Content Creators Reduce Harms From Misinformation". *BingUNews*, July 31, 2023. https://www.binghamton.edu/news/story/4432/fighting-fake-news-research-uses-machine-learning-blockchain-to-counter-misinformation.

Sascha Brodsky. **(2023).** "How AI Could Help Protect Against the Spread of Misinformation". Yahoo! News, LifeWire, August 8, 2023. https://www.yahoo.com/lifestyle/ai-could-help-protect-against-131210520.html

"Machine learning, blockchain technology could help counter spread of fake news." *ScienceDaily*. ScienceDaily, **1 August 2023**. https://www.sciencedaily.com/releases/2023/08/230801172011.htm.

ACM News. **(2023).** "Machine Learning, Blockchain Technology Could Help Counter Spread of Fake News". *Communications of the ACM*, August 2, 2023. https://cacm.acm.org/news/275181-machine-learning-blockchain-technology-could-help-counter-spread-of-fake-news/fulltext

Shiva Ganesh. **(2023).** "Combating Misinformation with Blockchain and ML". *Analytics Insight, Blockchain – Machine Learning Latest News*, August 3, 2023. https://www.analyticsinsight.net/combating-misinformation-with-blockchain-and-ml/

Tatang Mulyana Sinaga. **(2023).** "Machine Learning Mitigates the Spread of Fake News". *Kompas News, Jakarta, Indonesia*, *Digital Technology section*, 02 August 2023. https://www.kompas.id/baca/english/2023/08/02/en-mesin-pembelajar-memitigasi-penyebaran-kabar-bohong

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PROFESSIONAL MEMBERSHIPS

Association of Information Systems, AIS. SIGs: Artificial Intelligence & Autonomous Application, AIS. SIGs: Decision Support and Analytics (SIG DSA), AIS. SIGs: Information Quality (SIG IQ), AIS. SIGs: SIG SEC (Security).

IEEE Computational Intelligence Society, IEEE Young Professional, IEEE Computer Society, IEEE Information Theory Society.

SKILL SETS

Research Tools: SPSS - AMOS, Tableau, Python, R, STATA, S.A.S., SmartPLS, Advanced MS Excel.

Key Research Methodologies: Surveys, experiments, behavioral analyses, social media data mining (on Twitter – X, Reddit, YouTube and Facebook), sentiment analyses, natural language processing, structural equation modelling, quantitative and qualitative studies, longitudinal studies, applied neuroscience in Information Systems research.

Analytics: SAS Enterprise Miner - GUI, R programming, python: Data cleansing, plotting, and analysis. Specialized: Machine Learning - Unsupervised Learning (association rule mining, clustering), Supervised Learning (linear/logistic regression, classification - decision tree/random forest, artificial neural network), Text Analytics / Natural Language Processing, Sentiment Analysis (R, python, LIWC22 and NRC), Topic Modeling, Big Data Analytics.

Data Visualization: Tableau, R Studio - ggplot2 / qplot / R Shiny, d3.js, python.

Database Management: Dimensional Modelling - ERWin, SQL Server, Snowflake Schemas.

Programming: Python, R, Stata, SAS. Base, SPSS, Java, Javascript, SQL, Scala.

Project Management: MS Project Professional 2016, Gantt Chart, Earned Value Management, SDLC, Waterfall/Agile-Scrum, Agile-Planning Poker, UML diagrams, Requirement analysis.

Supply Chain Software: SAP ERP (R/3) - ECC 6.4 (PP, MM, SD), SAP SCM 7.0 (APO DP, APO SNP).