RANDALL S. KLEPETKO

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RESEARCH INTEREST

With an extensive professional career in technical management and a research career enhancing digital security by examining large data sets with deep learning, my talents are best served in developing a collaborative research team that tackles modern problems finding solutions using data mining and artificial intelligence.

EDUCATION

DOCTOR OF PHILOSOPHY IN ELECTRICAL ENGINEERING *December 2022*
The University of Texas at San Antonio (UTSA)
Dissertation Title: CNN Analysis on Security Data: Deriving Natural Order in a Nonnatural World
Advisor: Dr. Ram Krishnan

MASTER OF SCIENCE IN ELECTRICAL ENGINEERING AND COMPUTER ENGINEERING *May 2022*
The University of Texas at San Antonio (UTSA)

BACHELOR OF SCIENCE IN ENGINEERING, Computer Science Major/Mathematics Minor *May 1990*
Texas A&M University, College Station, Texas

PROFESSIONAL DEVELOPMENT:
- Part time Graduate Studies in Electrical Engineering (UTSA) *1995-2004*
- Graduate Studies in Electrical Engineering (Texas A&M) *1990-1992*
- Communication Electronics and Video Production (San Antonio College) *1993-1995*

PUBLICATIONS

Klepetko, R., Krishnan R. “Analyzing CNN Model Performance Sensitivity to the Ordering of Non-Natural Data", 4th International Conference on Computing, Communications and Security (ICCCS). IEEE Rome, Italy, 2019.

Klepetko, R., Krishnan R. “Analyzing CNN Models’ Sensitivity to the Ordering of Non-Natural Data", International Conference on Secure Knowledge Management in the Artificial Intelligence Era. Springer, San Antonio, Texas, 2021.

Klepetko, R., Krishnan R. “Visualizing CNN Models’ Sensitivity to Nonnatural Data Order", Information Systems Frontiers, 2022.

Klepetko, R., Krishnan R. “MiCAM: Visualizing Feature Extraction of Nonnatural Data", 4th International Conference on Machine Learning and Soft Computing (MLSC 2023) Copenhagen, Denmark, 2023.

Holiday, G., Klepetko, R. “Interpreting CNN in Cybersecurity: Process-Level Attribution via Benign-Replacement Occlusion (BRO)”, 2025 IEEE International Carnahan Conference on Security Technology (ICCST) San Antonio, Texas, 2025.

PROFESSIONAL EXPERIENCE

TEXAS STATE UNIVERSITY, Computer Science Department., San Marcos, Texas *January 2023 – Present*
ASSISTANT PROFESSOR OF PRACTICE – Instruct graduate and undergraduate students in security and architecture.

ANURA.io, Middletown, Delaware *June 2023 –July 2023*
PROGRAMMER – Coded in Node.js to support business processes.

BRIDGEHEAD IT LLC, San Antonio, Texas *February 2023 – March 2023*
PROGRAMMER – Coded in Laravel in support of various business web sites.

SITEPRO, INC., San Antonio, Texas *August 2019 – June 2020*
DATA ANALYST – Part of internal development team in a company that provides digital tracking of Saltwater Disposal, Regulation, SCADA and other oil field related data sources.

PROFESSIONAL EXPERIENCE (Continued)

TAN OAK FINANCIAL, Ukiah, California (formally: **Clearlake Holding** / **Multiloan Source**) *June 2012 – May 2019*
VICE PRESIDENT OF DEVELOPMENT –Remotely managed and enhanced online loan management system. Successfully orchestrated and reconstructed the activities of a Lead and Underwriting Manager, a Document Manager, a Customer Service Backend and User Interface Portal front end to take security and resilience as priorities.

SHOOK MOBILE TECHNOLOGY, INC., Schertz, Texas *January 2009 – November 2009*
PROJECT MANAGER – Worked with a broad client base to design and build custom technical vehicle applications for various industries that included broadcast, military, and law enforcement.

JOHN HAGEE MINISTRIES, San Antonio, Texas *November 2003 – December 2007*
CHIEF BROADCAST ENGINEER/TECHNICAL CONSULTANT – Multifaceted functions included management of maintenance for electronic, broadcast and production equipment; supervised broadcast transmission of program material over satellite; provided support for productions by supplying trained equipment operators; installed / upgraded distribution and production systems from analog tape to digital files; and provided technical support for multi-ministry needs.

ANALYTICAL SURVEYS INC., San Antonio, Texas *September 1999 – May 2003*
SENIOR PROGRAMMER/ANALYST – Member of technical service team that built an internal computer aided design software application that assisted with the capture/conversion of utility cartographic data.

SHOOK ELECTRONICS, USA INC., San Antonio, Texas *May 1994 – August 1999*
SENIOR INSTALLATION TECHNICIAN – Worked with a broad client base to design and build custom technical vehicle applications for various industries that included broadcast, military, and communication providers.

GLOBAL EVANGELISM TELEVISION, San Antonio, Texas *February 1993 – May 1994*
GRAPHICS AND BROADCAST ENGINEER – Involved in all aspects of television production at a non-profit television station.

TEACHING EXPERIENCE

ACADEMIC:

Texas State University, Computer Science Department, San Marcos, Texas *January 2023 – Present*
Lecturer – Instruct both graduate and undergraduate students in cyber-security and computer-architecture.

University of Texas at San Antonio (UTSA), San Antonio, Texas *Fall 1996*
Graduate Assistant, Graded papers and conducted review class sessions for introductory electrical engineering courses.

PROFESIONAL:

Analytical Surveys Inc., San Antonio, Texas *Spring 2003*
Senior Programmer/Analyst, Wrote and produced video lessons for instructing offshore paper to digital conversion specialist the proper steps and techniques when using the internal CAD application.

Shook Mobile Technology Inc., San Antonio, Texas *January 2009 – November 2009*
Project Manager, Hired and instructed a team to build custom technical vehicles to proper engineering practices and codes.

Tan Oak Financial, Ukiah, California *Fall 2015*
Vice President of Development, Instruct a team of customer service representatives to use standards and techniques as the foundation of a quality control and assurance program for the release of a new software application.

MENTORING EXPERIENCE

SOCIAL:

San Antonio Youth Soccer Association of Texas (SAYSAT), Universal City, Texas *15 Seasons 2006 – 2022*
Soccer Coach, ages 3-6

MENTORING EXPERIENCE (cont.)

ACADEMIC:

Texas State University (UTSA), **Computer Science Department.**, San Marcos, Texas *September 2023 – Present*
Coop-Education Coordinator, Assist and direct students with their internship opportunities and opportunities to gain credit through the coop education offers.

University of Texas at San Antonio (UTSA), San Antonio, Texas *Fall 1996*
Engineering Tutor, Mentored and assisted mechanical and electrical engineering students with their studies.

PROFESIONAL:

Shook Electronics, USA Inc., San Antonio, Texas *Fall 1996*
Senior Installation Technician, Instructed and mentored new draftsman to company standards.

John Hagee Ministries, San Antonio, Texas *November 2003 – December 2007*
Chief Engineer, Instructed and mentored a broadcast technician team to the proper engineering practices and codes.

Shook Electronics, USA Inc., San Antonio, Texas *Fall 1996*
Senior Installation Technician, Instructed and mentored new draftsman to company standards.

River Cities' Game Truck Corp., Cibolo, Texas *September 2011 – Present*
Majority Owner - President, Continuously instruct and mentor a team of customer service professionals that are the heart of a mobile-onsite entertainment business.

CONFERENCE ORAL PRESENTATIONS

Klepetko, R., Krishnan R. "Analyzing CNN Model Performance Sensitivity to the Ordering of Non-Natural Data", 4th International Conference on Computing, Communications and Security (ICCCS). Rome, Italy, October 2019.

Klepetko, R., Krishnan R. "Analyzing CNN Models' Sensitivity to the Ordering of Non-Natural Data", International Conference on Secure Knowledge Management in the Artificial Intelligence Era. San Antonio, Texas, October 2021.

Klepetko, R., Krishnan R. "MiCAM: Visualizing Feature Extraction of Nonnatural Data", 4th International Conference on Machine Learning and Soft Computing (MLSC 2023) Copenhagen, Denmark, 2023.

ADDITIONAL EXPERIENCE

ARKAIC SOLUTIONS, LLC, San Antonio, Texas *August 1995 – Present*
CONTRACT ENGINEER – Maintained an excellent record of performance as crew, manager, or consultant for small-to-medium business clients in a broad range of industries that included programming, audio, video, transmission, production, and construction.

RIVER CITIES' GAME TRUCK CORPORATION, San Antonio, Texas *September 2009 – Present*
MAJORITY OWNER - PRESIDENT – Successfully grew a franchise operation established as an S-Corporation that provides a mobile video game theater service for birthday parties and special events.

THELOST.CHURCH, Cibolo, Texas *June 2020 – Present*
THE ADJUNCT - CHIEF OPERATING OFFICER – Helped start a non-profit organization including building a web site, branding, packaging, graphics, layout, marketing, user experience, security, policy, and a software management system.

SKILLS AND AREAS OF EXPERTISE

- Software Coding (dozens of languages)
- Hardware Coding
- Database Design
- Security
- Operating Systems
- Cloud Computing
- Statistics
- Artificial Intelligence and Deep Learning
- Software Development and Lifecycle
- Circuitry and Hardware Design
- Binary Logic and Engineering Mathematics
- Computer Aided Design
- Audio and Video Production/Engineering
- Professional and Business Acumen

REFERENCES

Dr. Ram Krishnan, Associate Professor and Microsoft President's Endowed Professorship
Department of Electrical and Computer Engineering
University of Texas at San Antonio
210-458-6293 ram.krishnan@utsa.edu

Dr. Jeff Prevost, Associate Research Professor and Cloud Technology Endowed Professorship
Department of Electrical and Computer Engineering
University of Texas at San Antonio
210-458-5027 jeff.prevost@utsa.edu

Ryan Stock, President
Tan Oak Financial
702-715-2657 ryan@pangburnconsulting.com

Dustin W. Brown, Department Head Data Management
SitePro Inc.
806-500-8548 dustinwbrown@gmail.com

Victor Villarreal, Part Owner / Vice President
River Cities' Gametruck Corp.
210-501-4177 victor.villarreal@gametruck.com