Sailik Sengupta

Quick Links

Website
Linkedin
Github

Google Scholar

Languages

English Bengali Hindi

Programming

Java, C++ & Python Gurobi and Keras HTML, CSS & JS

Skills

Automated Planning Network Security Game Modeling Deep Learning Optimization

Research Interests

Adversarial Machine Learning, Moving Target Defense, Bayesian Stackelberg Games

Human-Aware Al Assistants, Decision Support Systems, Natural Language Processing

Education

Since 2015 **Ph.D.** student in Computer Science Arizona State University, USA

Present GPA: 4.00/4.00

2009-13 Bachelors in Engineering

GPA:8.72/10 (3rd in Class)

Computer Science & Engineering at Jadavpur University, India

Professional Experience

Summer 2018 **3 mazon AI - AWS Lex**Natural Language Processing

Research Scientist Intern

Teaching Assistant

Course Instructor

Fall 2016 Arizona State University

Introduction to Artificial Intelligence

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Fall 2015 Arizona State University

Capstone Project

2013-15 **a** mazon

External Payment Systems

Software Development Engineer

Selected Publications

AICS 2019 Markov Game Modeling of Moving Target Defense for Strategic Detection of Threats in Cloud Networks ✓

S. Sengupta*, A. Chowdhary*, D. Huang, S. Kambhampati

Trust 2019 To Monitor or to Trust: Observing Robot's Behavior based on a Game-

Theoretic Model of Trust C

S. Sengupta*, Z. Zahedi*, S. Kambhampati

ICNC 2019 Adaptive MTD Security using Markov Game Modeling

A. Chowdhary, S. Sengupta, A. Alshamrani, A. Sabur, D. Huang

GameSec 2018 Moving Target Defense for the Placement of Intrusion Detection Sys-

tems in the Cloud

S. Sengupta, A. Chowdhary, D. Huang, S. Kambhampati

AAAI'18 Workshop MTDeep: Boosting the Security of Deep Neural Nets Against Adver-

sarial Attacks with Moving Target Defense

S. Sengupta, T. Chakraborti and S. Kambhampati

AAAI'18 Workshop	An Investigation of Bounded Misclassification for Operational Secu-
	rity of Deep Neural Networks

S. Sengupta, A. Dudley, T. Chakraborti and S. Kambhampati

WeCNLP Summit 2018 Decomposable Intents in Goal-Directed Conversations: Dataset and **Challenges for End-to-End Learning**

S. Sengupta, R. Gangadharaiah, M. Diab

ICAPS'18 System Demo MA-RADAR - A Mixed-Reality Interface for Collaborative Decision Makina 🔽

S. Sengupta*, T. Chakraborti* and S. Kambhampati

ICAPS'17 System Demo Loop Planning 🗹 🗅

AAAI'17 Fall Symposium RADAR -- A Proactive Decision Support System for Human-in-the-

S. Sengupta, T. Chakraborti, S. Sreedharan, S. G. Vadlamudi and S. Kambhampati

AAMAS 2017 A Game Theoretic Approach in Strategy Generation for Moving Target Defense with Switching Costs 2 D

S. Sengupta, S. G. Vadlamudi, S. Kambhampati, M. Taguinod, Z. Zhao, A. Doupe and G. Ahn

AAMAS DC 2017 Moving Target Defense- A Symbiotic Framework for Artificial Intelligence and Security

S. Sengupta

SoCS 2016 Compliant Conditions for Polynomial Time Approximation of Operator Counts 3

T. Chakraborti, S. Sreedharan, S. Sengupta, T.K. Satish Kumar and S. Kambhampati

AAMAS 2016 Moving Target Defense For Web Applications Using Bayesian Extended Abstract Stackelberg Games C

S. G. Vadlamudi, S. Sengupta, S. Kambhampati, M. Taguinod, Z. Zhao, A. Doupe and G. Ahn

ReTIS 2011 An improved fuzzy clustering method using modified Fukuyama-Sugeno cluster validity index <a>C

S. Sengupta, S. De, A. Konar and R. Janarthanan

Projects

- Multi-Agent Path Finding for Semi-autonomous Warehouses Approximate Algorithms using Min-Weighted-Max-Independent Set. C </>
- C Knowledge Acquisition for Symbiotic Autonomy in Uncertain Environments.
- Crchestrating Team Meetings with Al-enabled Smart Assistants.
- 🖒 Scene Understanding with Deep Neural Networks Identification of Missing or Occluded Objects in Images. C </>
- Securing C-code against Size Aware Buffer Overflow Attacks.
- 🖒 Secure Java Library for Bcrypt, a Password Hashing Mechanism. 🗹 🗥

Awards and Recognition

★ IBM Ph.D. Fellowship, 2018-19.

- ★ Graduate Research Fellowship, Arizona State University.
- ★ Travel Grants from AAMAS'17, IJCAI'17, GameSec'18, and GPSA.
- ★ Outstanding performer of the quarter, External Payment Systems, Amazon, 2015.
- ★ NCES Scholar, Indian Association of Physics Teachers, 2008.