Sailik Sengupta

Quick Links

Website
in Linkedin
G Github

Google Scholar

Languages

English Bengali Hindi

Programming

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

Skills

Automated Planning Network Security Game Modeling Policy Gradient 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 2019 **3** mazon AI - AWS Lex

Research Scientist Intern

Natural Language Processing

— Text Generation

Summer 2018 **3 mazon AI - AWS Lex**

Research Scientist Intern

Natural Language Processing- Al Dialog Systems

Fall 2016 Arizona State University

Teaching Assistant

Introduction to Artificial Intelligence

Fall 2015 Arizona State University

Course Instructor

Capstone Project

2013-15 **a** mazon

External Payment Systems

Software Development Engineer

Publications

WeCNLP 2019 Text Generation with Keyword Constraints-- a Hyrbrid Approach Using Supervised and Reinforcement Learning

S. Sengupta, H. He, B. Haider, S. Gella, M. Diab

GameSec 2019 MTDeep: Moving Target Defense to Boost the Security of Deep Neural Nets Against Adversarial Attacks

S. Sengupta, T. Chakraborti, S. Kambhampati

GameSec 2019 General Sum Markov Games for Strategic Detection of Advanced Per-

sistent Threats using Moving Target Defense in Cloud Networks

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

AICS 2019 Markov Game Modeling of Moving Target Defense for Strategic Detec-

tion of Threats in Cloud Networks <a>C

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

	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
NDM 2019	iPass: A Case Study of the Effectiveness of Automated Planning for Decision Support S. Grover, S. Sengupta, T. Chakraborti, A. Mishra, S. Kambhampati
NDM 2019	CAP: A Decision Support System for Crew Scheduling using Automated Planning A. Mishra, S. Sengupta, S. Sreedharan, T. Chakraborti, S. Kambhampati
GameSec 2018	Moving Target Defense for the Placement of Intrusion Detection Systems in the Cloud S. Sengupta, A. Chowdhary, D. Huang, S. Kambhampati
AAAI'18 Workshop	An Investigation of Bounded Misclassification for Operational Security of Deep Neural Networks S. Sengupta, A. Dudley, T. Chakraborti and S. Kambhampati
WeCNLP 2018	[Redacted] Decomposable Intents in Goal-Directed Conversations: Dataset and Challenges for End-to-End Learning S. Sengupta, R. Gangadharaiah, A. Mishra, M. Diab
ICAPS'18 System Demo	MA-RADAR - A Mixed-Reality Interface for Collaborative Decision Making 🗹 S. Sengupta*, T. Chakraborti* and S. Kambhampati
AAAI'17 Fall Symposium ICAPS'17 System Demo	RADAR A Proactive Decision Support System for Human-in-the-Loop Planning 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 ✓ ► 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 T. Chakraborti, S. Sreedharan, S. Sengupta, T.K. Satish Kumar and S.

AAMAS 2016 Moving Target Defense For Web Applications Using Bayesian Stack-

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

Kambhampati

elberg Games 🗹

Doupe and G. Ahn

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

ReTIS 2011 An improved fuzzy clustering method using modified Fukuyama Sugeno cluster validity index 🗹

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. 🗸
- 🖒 Knowledge Acquisition for Symbiotic Autonomy in Uncertain Environments. 🗹
- Orchestrating Team Meetings with Al-enabled Smart Assistants. </
- 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.