

Sailik Sengupta

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Quick Links

- [Website](#)
- [Linkedin](#)
- [Github](#)
- [Google Scholar](#)

Languages

English
Bengali
Hindi

Programming

Java, C++ & Python
Gurobi Optimizer
HTML, CSS & JS

Skills

Adv. Deep Learning
Stackelberg Games
Automated Planning
Linear Programming
Optimization

Research Interests

- 🔒 Adversarial Machine Learning, Moving Target Defense, Bayesian Stackelberg Games
- 🔒 Human-Aware AI Assistants, Proactive Decision Support, Human-in-the-Loop Planning

Education

Since 2015 **Ph.D.** student in Computer Science Present GPA: 4.00/4.00
Arizona State University, USA

2009-13 **Bachelors in Engineering** GPA:8.72/10 (3rd in Class)
Computer Science & Engineering at Jadavpur University, India

Professional Experience

- 2017 **Arizona State University** Research Assistant
Yochan lab [🔗](#)
- Fall 2016 **Arizona State University** Teaching Assistant
Introduction to Artificial Intelligence
- Fall 2015 **Arizona State University** Course Instructor
Capstone Project
- 2013-15 **amazon** Software Development Engineer
External Payment Systems

Selected Publications

- AAAI'18 Workshop **MTDeep: Boosting the Security of Deep Neural Nets Against Adversarial Attacks with Moving Target Defense** [🔗](#)
S. Sengupta, T. Chakraborti and 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
- 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. Kambhampati

AAMAS 2016 **Moving Target Defense For Web Applications Using Bayesian Stackelberg Games** [↗](#)
Extended Abstract

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** [↗](#)

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

Projects

- 🔖 *[Work In Progress]* Strategic investigation of networks with malicious actors.
- 🔖 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 AI-enabled Smart Assistants. [↩](#)
- 🔖 Scene Understanding with Deep Neural Networks - Identification of Missing or Occluded Objects in Images. [↗](#) [↩](#)
- 🔖 Securing C-code against Size Aware Buffer Overflow Attacks. [↩](#)
- 🔖 Secure Java Library for Bcrypt, a Password Hashing Mechanism. [↗](#) [↩](#)

Awards and Recognition

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

Service

- 🔖 Student Volunteer for AAMAS 2017.
- 🔖 Auxillary reviewer for ICRA'17 and ICAPS'17.
- 🔖 Web-developer for IJCAI 2017. [↗](#)
- 🔖 Member of the Review Process Committee for IJCAI 2017. [↗](#)
- 🔖 Organizer of Coding Competitions at SRIJAN'13, Jadavpur University.