

# Kalpita Sharma

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## Academic Employment

Assistant Professor, IT and Computational Systems area, Indian Institute of Management Amritsar,  
May 2022 - Present.

## Education

Ph.D., specialization in Information Systems, Indian Institute of Management Lucknow.

**Dissertation:** *Cyber-risk Management frameworks for Digital Ecosystems*

*Committee:* Arunabha Mukhopadhyay (Chair), Pradeep Kumar, and Rajesh Aithal.

*Accreditation:* AACSB, and AMBA.

Bachelor of Technology (B.Tech.), Bundelkhand Institute of Engineering and Technology, Jhansi,  
Dr. A. P. J. Abdul Kalam Technical University Lucknow, 2016.

*Major:* Information Technology,

*Honors:* Distinction.

## Fields of Interest

Cyber-risk Management, Cyber-threat Intelligence, Information Security and Privacy, Digital Business Models, Machine Learning, Text Mining, Data Mining

## Publications

Cyber-risk management framework for online gaming firms: An Artificial Neural Network approach, with Arunabha Mukhopadhyay, 2022, **Information Systems Frontiers**, (ABDC 'A', ABS 3)

Kernel naive Bayes classifier-based cyber-risk assessment and mitigation framework for online gaming platforms, with Arunabha Mukhopadhyay, 2022, **Journal of Organizational Computing and Electronic Commerce**, (ABDC 'A')

SARIMA-based cyber-risk assessment and mitigation model for a smart city's traffic management systems (SCRAM), with Arunabha Mukhopadhyay, 2022, **Journal of Organizational Computing and Electronic Commerce**, (ABDC 'A')

## Working Papers

Cyber-risk Assessment and Mitigation framework for smart cities: A deep learning approach

Text mining-based cyber-risk assessment for DDoS attacks and mitigation using cyber-insurance

A logit-based Cyber-risk Assessment and Mitigation model for Massively Multiplayer Online Gaming (CRAMOG) platforms

## Works-in-progress

Cross-industry cyber-risk assessment and mitigation of DDoS attacks

Path-dependent choice of cyber-risk mitigation strategies for online gaming industry

Causal estimation in cybersecurity interventions

Angry Samaritans: Social-media based monitoring of customer dissatisfaction with advertisement messaging

Topic Modelling of Financial Complaints

## Conference Presentations

Americas Conference on Information Systems (AMCIS), Minneapolis, August, 2022.

Pre-ICIS SIGDSA Symposium, December, 2021.

Americas Conference on Information Systems (AMCIS), Montreal, August, 2021.

Production and Operations Management Society (POMS) Conference, May, 2021.

International Conference on Information Systems (ICIS), Hyderabad, December, 2020.

Pre-ICIS SIGDSA Symposium, Hyderabad, December, 2020.

Bright Internet Global Summit (BIGS), Hyderabad, December, 2020.

Americas Conference on Information Systems (AMCIS), Salt Lake City, August, 2020.

19th Annual Security Conference, Las Vegas, NV, April, 2020.

The 6th Biennial Indian Academy of Management Conference (INDAM), IIM Tiruchirappalli, January, 2020.

XXIII Annual International Conference of the Society of Operations (SOM), IIT Kanpur, December, 2019.

7th PAN-IIM World Management Conference, IIM Rohtak, December, 2019.

## Experience

Research Assistant, under guidance of Prof. Ambuj Mahanti, Indian Institute of Management Calcutta, May 2016–June 2017.

## Professional Activities

### Workshops attended:

Pre-ICIS SIGDSA Symposium, Hyderabad (Virtually), December, 2020.

Workshop on Information Technology and Systems (WITS), Hyderabad (Virtually), 2020.

Indo-French Joint Workshop on SAIDS, ISI Calcutta, January, 2020.

### Ad hoc referee for:

*Information System Frontiers*

*Americas Conference on Information Systems (AMCIS)*

*European Conference on Information Systems (ECIS)*

*Academy of Management Annual Meeting*

### Membership:

*Association for Information Systems (AIS)*

*Information Systems Audit and Control Association (ISACA)*

*Production and Operations Management Society (POMS)*

## Honors, Awards, & Fellowships

Best paper nominee at Pre-ICIS SIGDSA Symposium, 2021

Uttar Pradesh Government Scholarship Grant, 2012–2016.

International Conference on Information Systems Doctoral Grant, 2020.

Workshop on Information Technology and Systems Grant, 2020.

Americas Conference on Information Systems Virtual Conference Grant, 2020–2021.

AIS MHDI & LHDI Registration Grant, 2021.

## Miscellaneous

*Computer Skills:* MATLAB, Python, Stata, SPSS, L<sup>A</sup>T<sub>E</sub>X, Excel.

*Languages:* English (Proficient), Hindi (Native).