

Dr. Ashutosh Jha

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[Web](#) | [Google Scholar](#) | [LinkedIn](#)

ACADEMIC QUALIFICATIONS

Programme	University	Year
Ph.D. (Management Information Systems)	Indian Institute of Management Calcutta	2014-20
B.E. (Hons.) (Electrical & Electronics)	BITS-Pilani, Goa Campus	2004-08
XII (NBSE)	Kohima Science College, Jotsoma	2002-04
X (NBSE)	Government High School, Chiechama	2002

RESEARCH AND TEACHING INTERESTS

- **Research Interests:**

- Adoption/Diffusion of Mobile Information Systems
- Techno-economics of 4G/5G Networks
- Radio Spectrum Management
- E-Governance
- Development Informatics

- **Teaching Interests:**

- Management Information Systems
- Social Network Analysis
- Artificial Intelligence for Business
- Spreadsheet Modeling
- Predictive Analytics using R
- Information & Communication Technology for Development (ICT4D)
- System Dynamics
- Empirical Research Methodologies in Information Systems
- Quantitative Research Methods

ACADEMIC EXPERIENCE

Articles in Peer-reviewed Journals:

Oughton, E. J., & Jha, A. (2021). "Supportive 5G Infrastructure Policies are Essential for Universal 6G: Assessment using an Open-source Techno-economic Simulation Model utilizing Remote Sensing." in *IEEE Access*. <https://doi.org/10.1109/ACCESS.2021.3097627>.

Jha, A., & Saha, D. (2021). "Mobile Broadband for Inclusive Connectivity: What Deters the High-Capacity Deployment of 4G-LTE Innovation in India?" *Information Systems Frontiers*. <https://doi.org/10.1007/s10796-021-10128-6>

Chakrabarty, M., Jha, A., & Ray, P. (2021). "Demonetization and digital payments in India: perception and reality." *Applied Economics Letters*, 28(4), 319–323. <https://doi.org/10.1080/13504851.2020.1752895>

Jha, A., & Saha, D. (2020). "Forecasting and analysing the characteristics of 3G and 4G mobile broadband diffusion in India: A comparative evaluation of Bass, Norton-Bass, Gompertz, and logistic growth models." *Technological Forecasting and Social Change*, 152, 119885. <https://doi.org/10.1016/j.techfore.2019.119885>

Jha, A., & Saha, D. (2019). "Techno-commercial feasibility analysis of 4G mobile services in India." *IIMB Management Review*, 31(2), 182–199. <https://doi.org/10.1016/j.iimb.2019.03.007>

Jha, A., & Saha, D. (2019). Examining categorization of Telecom Circles in India using unsupervised k-means clustering on techno-economic indicators. *Decision*, 46(4), 365–383. <https://doi.org/10.1007/s40622-019-00225-6>

Book chapter(s):

Jha, A., & Saha, D. (2017). Techno-Economics Behind Provisioning 4G LTE Mobile Services over Sub 1 GHz Frequency Bands. In Sastry, N., Chakraborty, S., (eds) *Communication Systems and Networks. Lecture Notes in Computer Science (LNCS)*, (pp. 284–306). Springer, Cham. https://doi.org/10.1007/978-3-319-67235-9_17

Business case studies:

Jha, A., & Saha, D. (2017). "Dematerializing Academic Records in Digital India: an e-Governance Initiative of CDSL." Indian Institute of Management Calcutta Case Research Center (IIMCCRC) https://www.iimcal.ac.in/sites/all/files/case_studies_portal/final_version_cdsl-sneak_peek.pdf

Seetharaman, P., & Jha, A. (2018). "VR Games for Smartphones – Planning Tomorrow Today." *To be registered* with Indian Institute of Management Calcutta Case Research Center (IIMCCRC).

International Conference Proceedings:

- Silal, P., Jha, A., & Saha, D. (2019). From E-Government to Good Governance: The mediating role of Government E-Participation. In *the International Conference on Information Systems (ICIS) 2019*. https://aisel.aisnet.org/icis2019/digital_government/digital_government/6/.
- Jha, A., & Saha, D. (2018). Techno-Economic Analysis of 5G Deployment Scenarios involving Massive MIMO HetNets over mmWave : A Case Study on the US State of Texas. In *51st Hawaii International Conference on System Sciences (HICSS)*, (pp. 5839-5848). <http://hdl.handle.net/10125/50621> - ***Nominated for Best Paper Award.**
- Jha, A., & Saha, D. (2018). Diffusion and Forecast of Mobile Service Generations in Germany, UK, France and Italy – A Comparative Analysis Based On Bass, Gompertz and Simple Logistic Growth Models. In *26th European Conference on Information Systems (ECIS 2018)*. https://aisel.aisnet.org/ecis2018_rp/17/. Portsmouth, UK.
- Silal, P., Jha, A., & Saha, D. (2019). Managing E-Government Development for Reducing Corruption via Effective Policymaking: Empirical Evidences from Cross-Country Analyses. In *the thirteenth International Conference on Digital Society and eGovernments (ICDS 2019)*. Athens, Greece – ***Received the Best Paper Award.**
- Jha, A., & Saha, D. (2019). Coverage and Capacity Dynamics in 4G-LTE Deployment in India. In *Proceedings of 2019 IEEE International Conference on Electronics, Information, and Communication (ICEIC 2019)*. DOI: 10.23919/ELINFOCOM.2019.8706452. Auckland, New Zealand.
- Chakrabarty, M., Jha, A., & Ray, P. (2019). Demonetisation and Movement Toward Cashless Economy in India: Appearance and Illusions? In *2019 World Finance Conference*. Universidad Diego Portales, Santiago de Chile.
- Jha, A., & Saha, D. (2019). Techno-managerial Considerations for 5G Deployment in India. In *28th International Conference on Management of Technology (IAMOT)*. Mumbai, India.
- Pankaj, L., Silal, P., & Jha, A. (2019). Role of mobile phone technology in higher education attainment: A rural India outlook. In *the second International Conference on Digital Economy (ICDE 2019)*. Indian Institute of Management Raipur, India - Accepted and to be presented.
- Jha, A., & Saha, D. (2018). Techno-Economics of 4G-LTE Deployment in India: Forecasting the Innovation Adoption and Evaluating the Profitability Potential. In *2018 6th Pan-IIM World Management Conference*. Indian Institute of Management Bangalore, India. <http://6paniimwmc.in/6th-pan-iim-conference-proceeding.pdf>

Jha, A., Silal, P., & Saha, D. (2018). Exploring the Role of ICT Access on Corruption Control: Analysis of Country-Cohorts using Panel Data Regression. In *2018 6th Pan-IIM World Management Conference*. Indian Institute of Management Bangalore, India. <http://6paniimwmc.in/6th-pan-iim-conference-proceeding.pdf>

Jha, A., & Saha, D. (2017). Why is 700 MHz band a good proposition for provisioning pan-India 4G LTE services?: A comparative techno-economic evaluation study. In *2017 9th International Conference on Communication Systems and Networks (COMSNETS)* (pp. 229–236). IEEE. <https://doi.org/10.1109/COMSNETS.2017.7945381>. Bangalore, India.

Jha, A., & Saha, D. (2015). Techno-economic assessment of the potential for LTE based 4G mobile services in rural India. In *2015 IEEE International Conference on Advanced Networks and Telecommunications Systems (ANTS)* (pp. 28–33). IEEE. <https://doi.org/10.1109/ANTS.2015.7413612>. Kolkata, India.

Editorial and Reviewing Experience:

- Member, Editorial Review Board - International Journal of Business Data Communications and Networking (June 2021-current).
- Reviewed articles for the following outlets:
 - Australasian Journal of Information Systems (AJIS)
 - Asia Pacific Journal of Information Systems (APJIS)
 - International Journal of Emerging Markets (IJEM)
 - IEEE Transactions on Engineering Management (IEM)
 - International Journal of Business Data Communications and Networking (IJBDCN)
 - Decision (Springer)
 - International Conference on Information Systems (ICIS)
 - European Conference on Information Systems (ECIS)
 - Hawaii International Conference on System Sciences (HICSS)

Teaching Assistant:

- **Course:** 'ERP, Workflow and BPM', **Program:** Post Graduate Program For Executives For Visionary Leadership in Manufacturing (PGPEX-VLM), 2018, **Duration:** 45 hours, Indian Institute of Management Calcutta, Kolkata.
- **Course:** 'Basic Econometrics', **Program:** Post Graduate Diploma in Business Analytics (PGDBA), 2018, **Duration:** 30 hours, Indian Institute of Management Calcutta, Kolkata.
- **Course:** 'Selected Aspects of Predictive Modeling', **Program:** Post Graduate Diploma in Business Analytics (PGDBA), 2018 and 2019, **Duration:** 30 hours, Indian Institute of

Management Calcutta, Kolkata.

Workshops and Tutorials:

- Conducted a 9 hour workshop on '**R Programming for Managers**'. The audience comprised the students of Post Graduate Program For Executives For Visionary Leadership in Manufacturing (PGPEX-VLM), 2018 at IIM Calcutta: Feedback rating - 4.7/5.
- Conducted tutorial sessions on '**Industrial Internet of Things (IIoT) and Machine to Machine (M2M) Communications**'. The audience comprised the students of Post Graduate Program For Executives For Visionary Leadership in Manufacturing (PGPEX-VLM), 2018 at IIM Calcutta.

WORK EXPERIENCE SUMMARY

- **S. P. Jain Institute of Management and Research (SPJIMR), Mumbai.**
Assistant Professor, Information Management Area (January 2020 – Present).
Associate Head, Office of Research and Innovation (ORI) at SPJIMR (September 2020 – Present).
- **Tech Mahindra – Bangalore, British Telecom (BT) Account (2013-2014)**
Responsible for the AGILE framework-based system level design and coordination between the development and test support - in the capacity of a *Solutions Designer* - for applications deployed as part of the telecom billing system in the 'ANDES Design' group of British Telecom.
- **IBM – Bangalore, Global Business Services (GBS), AT&T Account (2010-2013)**
Exhaustive experience in telecom OSS/BSS systems with respect to requirement gathering, analyses, design and test support across the applications for end-to-end integrity. Involved in mission and functional analyses, conducting requirements and information analysis and risk analysis - in the capacity of a *Business Design Consultant*.
- **Tech Mahindra – Chennai, Automotive and Aerospace Center of Excellence (2008-2010)**
Involved in developing and testing of Java-J2EE based applications ('Waterfall model') related to automotive engineering solutions, automotive electronics and enterprise solutions as an *Application Developer*.

CONSORTIUMS AND WORKSHOPS

- Received the Ford fellowship grant for attending the workshop on, 'How to engage in broadband policy and regulatory processes?' held at IIT Delhi, 19-22 August 2016.

- Participated in the 5th Case Method Workshop organized by the Case Research Centre (IIMCCRC), held at the Indian Institute of Management, Calcutta, 2-3 March 2017.

AWARDS AND CERTIFICATIONS (SELECTED)

- Best Paper Award in 13th International Conference on Digital Society and e-Governments (ICDS 2019), Athens, Greece.
- Best Paper Nomination in 51st Hawaii International Conference on System Sciences (HICSS 51), Hawaii, 2018.
- IBM Certified SOA Solution Designer (SR8907253)
- IBM Certified SOA Professional (SR8907253)
- Received merit scholarship from BITS-Pilani, Goa campus (2004-05)
- Ranked 2nd in state in Class XII board merit list (2004)
- Ranked 5th in state in Class X board merit list (2002)

TECHNICAL SKILLS AND PLATFORMS

- **Research Methods:**

Mathematical Modeling, Basic and Advanced Econometric Methods, Time Series Forecasting, System Dynamics Modeling.

- **Skills:**

R Programming, Python, STATA, Vensim, MS Excel, Object Oriented Analysis & Design (OOAD), Java-J2EE, Java XML Web-Services, PL-SQL, UNIX, C, HTML

- **Platforms:**

STATA, R, Vensim, IBM Websphere Business Modeler 7.0.0.4, IBM Rational Software Architect, Oracle Weblogic (ver 8.1 and 10.3), PL/SQL Developer.

PROFESSIONAL REFERENCES

- Prof. Debashis Saha (ds@iimcal.ac.in), Professor, MIS Group, IIM Calcutta
- Prof. Priya Seetharaman (priyas@iimcal.ac.in), Associate Professor, MIS Group, IIM Calcutta
- Prof. Manisha Chakrabarty (mchakrabarty@iimcal.ac.in), Professor, Economics Group, IIM Calcutta