

DETAILED BIO-DATA

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Academic Qualification:

Course	Specialization	University	Passing Year
Ph.D.	Computer Science & Engineering	NIT Patna	2022
M.Tech.	Computer Engineering	NIT Kurukshetra	2013
B.Tech.	Computer Science & Engineering	G.B.T.U	2011

Patents:

1. **Akash Sinha** and Prabhat Kumar, “A Real-Time Personalized Assistance Providing System and Method Based on IoT Devices Exhibiting Social Behavior” (Indian Patent) Status: Published
2. **Akash Sinha**, Aayushi Jain, and Prabhat Kumar, “An Advanced Mobile Ringing Profile Adjustment System Based on Location and Designation in Organizational Hierarchy” (Indian Patent) Status: Published

Publications:

International Journals:

1. **Akash Sinha**, G. Shrivastava, P. Kumar, D. Gupta, “A community-based hierarchical user authentication scheme for Industry 4.0”, Software: Practice and Experience, Volume 52, Issue 3, Wiley, March 2022. [SCIE]
2. **Akash Sinha**, P. Kumar, N. P. Rana, R. Islam, Y. K. Dwivedi, “Impact of internet of things (IoT) in disaster management: a task-technology fit perspective”, Annals of Operations Research, Volume 283, pp. 759–794, Springer US, Dec. 2019. [SCI]
3. **Akash Sinha**, G. Shrivastava, P. Kumar, “Architecting User-Centric Internet of Things for Smart Agriculture. Sustainable Computing: Informatics and Systems, Volume 23, pp. 88-102, Elsevier, Sep. 2019 [SCIE]
4. J. Kumari, G. Shrivastava, **Akash Sinha**, P. Kumar, “Role of Technology in Solid Waste Management: A Review”, Recent Patents on Computer Science, Volume 12, Issue 4, pp. 338-348, Bentham Science, Nov. 2019. [SCOPUS]
5. Pankhuri, **Akash Sinha**, G. Shrivastava, P. Kumar, “A Pattern Based Multi-Factor Authentication System”, Scalable Computing: Practice and Experience, Volume 20, Issue 1, pp. 101-112, Mar 2019. [SCOPUS]
6. **Akash Sinha**, and P. Kumar, "A Novel Framework for Social Internet of Things", Indian Journal of Science and Technology, Volume 9, Issue 36, Sept. 2016. [SCOPUS]

International Conferences:

1. R. Kumar, Y. Dasari, P. Kumar, and **Akash Sinha** (2022). A Smart Trust Based Approach for Sybil Node Detection in Online Social Networks. In: 2022 International Conference on

Computational Science and Computational Intelligence. Las Vegas, USA. IEEE. DOI 10.1109/CSCI58124.2022.00222

2. **Akash Sinha**, P. Kumar, M.P. Singh (2021). Trusted Recommendation Model for Social Network of Things. In: International Conference on Innovative Computing and Communications. Advances in Intelligent Systems and Computing, vol 1387. Springer, Singapore. DOI: 10.1007/978-981-16-2594-7_67
3. H. Omar, **Akash Sinha**, Prabhat Kumar (2021). System for Situational Awareness using Geospatial Twitter Data. In: International Conference on Innovative Computing and Communications. Advances in Intelligent Systems and Computing, vol 1394. Springer, Singapore. DOI:10.1007/978-981-16-3071-2_59
4. R. Raj, **Akash Sinha**, P. Kumar, M.P. Singh (2021). Intelligent Gateway for Data-Centric Communication in Internet of Things. In: International Conference on Innovative Computing and Communications. Advances in Intelligent Systems and Computing, vol 1166. Springer, Singapore. DOI:10.1007/978-981-15-5148-2_92
5. S. Verma, **Akash Sinha**, P. Kumar, & A. Maitin (2020). Optimizing Online Shopping using Genetic Algorithm. In 2020 3rd International Conference on Information and Computer Technologies (ICICT) (pp. 271-275). IEEE.
6. Y. Rai, A. Raj, Kumari S. Sah, & **Akash Sinha**. (2020). AIRUYA-A Personal Shopping Assistant. In International Conference on Innovative Computing and Communications: Proceedings of ICICC 2019, Volume 1 (Vol. 1087, p. 435). Springer Nature.
7. A. Kamboj, P. Tanay, **Akash Sinha**, P. Kumar. (2021) Breast Cancer Detection Using Supervised Machine Learning: A Comparative Analysis. In: Goyal D., Bălaş V.E., Mukherjee A., Hugo C. de Albuquerque V., Gupta A.K. (eds) Information Management and Machine Intelligence. ICIMMI 2019. Algorithms for Intelligent Systems. Springer, Singapore. https://doi.org/10.1007/978-981-15-4936-6_29
8. P. Kumar, Y. Dasari, A. Jain, and **Akash Sinha**. (2017) Fake Order Mitigation: A Profile Based Mechanism, In the 16th IFIP Conference on e-Business, e-Services and e-Society (I3E2017), Kar A. et al. (eds) Digital Nations – Smart Cities, Innovation, and Sustainability. I3E 2017. Lecture Notes in Computer Science, vol 10595 pp. 276-288. Springer.
9. P. Kumar, **Akash Sinha**, N. P. Rana, and A. Singh. (2017) User Adoption of Cashless Services in Indian Context – A Preliminary Analysis, In 23rd Americas Conference on Information Systems (AMCIS 2017), Boston, MA, USA.
10. K. Gaurav, **Akash Sinha**, J. P. Singh, and P. Kumar. (2017) Facebook Like: Past, Present and Future, In Data Engineering and Intelligent Computing: Proceedings of IC3T 2016, pp. 617-625. Springer International Publishing.
11. P. Kumar, Y. Dasari, S. Nath, and **Akash Sinha** (2016) "Controlling and Mitigating Targeted Socio-Economic Attacks", In Conference on e-Business, e-Services and e-Society, pp. 471-476. Springer International Publishing.

Book Chapters:

1. M. Kumar, M. Sharma, I. Raina, M. Kawatra, S. Sharma, **Akash Sinha**. (2020). Help Me Invest: Investment Tools and Security Risks. In Forensic Investigations and Risk Management in Mobile and Wireless Communications (pp. 257-269). IGI Global.
2. R. Anand, **Akash Sinha**, A. Bhardwaj, A. Sreeraj (2018). Flawed Security of Social Network of Things. In Handbook of Research on Network Forensics and Analysis Techniques (pp. 65-86). IGI Global.