Curriculum vitae

PERSONAL INFORMATION

Amit Kumar Tyagi

(B.Tech, M.Tech, Ph.D, M.I.E.E.E.,)



Sex: Male | Date of Birth: 05/08/1988 | Nationality: Indian| Languages: Hindi, English and French



Village-Achheja, Delhi Road Hapur, Uttar Pradesh - 245101, India.

amitkrtyagi025@gmail.com aktyagi@pec.edu

***** +91-9487868518

- ❖ RESEARCHER ID (web): M-6418-2018,
- ❖ ORCID ID: 0000-0003-2657-8700,
- ❖ SCOPUS ID: 58100922500,
- ❖ Google scholar ID: RIgaVmUAAAAJ&hl,
- ❖ Microsoft Academic ID: 2959147272
- ❖ Web of Science Researcher ID: AHA-3329-2022

Summary:

- ❖ International Journal Published: 40 (SCI: 10, Scopus: 19, Web of Science: 08, Non-Scopus: 03)
- ❖ Paper Presented in International Conferences: 80 (Scopus: 60, Web of Science: 13, Non-Scopus: 7)
- ♦ Chapter Published: 200 (Scopus: 130, Web of Science: 55, ISSN/ ISBN: 15)
- ❖ Edited Book: 35+
- Authored Book: 05
- ❖ Ph.D Guided: 01
- ❖ Student Guided: 10 (PG level: 07, UG level: 4)
- ❖ Patent filed (Published/ Granted): 25+ (Indian: 15+, International: 10)
- ❖ Total citations: 5000+ (Google Scholar H-Index: 40, Scopus H-Index: 3)0

Current Position: Assistant Professor, Department of Fashion Technology, National Institute of Fashion Technology, New Delhi, 110016, Delhi, India.

Personal Profile

Amit Kumar Tyagi is working as an Assistant Professor, Department of Fashion Technology, National Institute of Fashion Technology, New Delhi, 110016, Delhi, India. About his education, he received his Ph.D. Degree in 2018 from Pondicherry Central University, India. He has worked as Assistant Professor (Senior Grade-2), and Senior Researcher at School of Computer Science and Engineering, Vellore Institute of Technology (VIT), Chennai Campus, Chennai, Tamil Nadu, India since June 2019 to November 2022. He has also worked as an Assistant Professor and Head-Research, Lingaya's Vidyapeeth (formerly known as Lingaya's University), Faridabad, Haryana, India in 2018-2019. His supervision experience includes more than 10 Bachelor's, Masters' dissertations and one PhD thesis. He has contributed to several projects such as "AARIN" and "P3- Block" to address some of the openissues related to the privacy breaches in Vehicular Applications (such as Parking) and Medical Cyber Physical Systems (MCPS).

He has published over 175+ papers (according to Scopus Database) in refereed high impact journals, conferences and books, and some of his articles awarded best paper awards. Also, he has filed more than 25 patents (Nationally and Internationally) in the area of Deep Learning, Internet of Things, CyberPhysical Systems and Computer Vision. He has edited more than 20 books for IET, Elsevier, Springer, CRC Press, etc. Also, he has authored 4 Books on Internet of Things, Intelligent Transportation Systems, Vehicular Ad-hoc Network with BPB Publication, Springer and IET publisher.

He is a Winnerof Faculty Research Award (FRA) for the Year of 2019, 2020 and 2021 given by Vellore Institute of Technology, Chennai, Tamilnadu, India. Recently, he has been awarded **Best paper award** for paper titled "A Novel Feature Extractor Based on the Modified Approach of Histogram of oriented Gradient", ICCSA 2020, Italy (Europe). His current research focuses on Next Generation Machine Based Communications, Blockchain Technology, Smart and Secure Computing and Privacy. He is a regular member of the ACM, IEEE, MIRLabs, Ramanujan Mathematical Society, Cryptology ResearchSociety, and Universal Scientific Education and Research Network, CSI and ISTE.

Web of Science Profile:

https://www.webofscience.com/wos/woscc/full-record/WOS:000876136000001

Scopus Profile:

https://www.scopus.com/authid/detail.uri?authorId=58100922500

Google Scholar's Profile

https://scholar.google.co.in/citations?user=RIgaVmUAAAAJ&hl=en

Profile Weblink: www.ak-tyagi.com

Education (Regular only)

2013-2018 Ph.D. in Computer Science and Engineering, Pondicherry Engineering College, Pondicherry, India, Supervisor: Prof. N. Sreenath

Thesis Title: SATA Framework to Enhance Privacy for Location Based Services in Vehicular Ad-Hoc Networks (Date of Awarded: 11.09.2018).

2010-2012 M. Tech. in Computer Science and Engineering, Pondicherry University (A Central

University) Pondicherry, India

Thesis Title: Detection of Fast Flux Network Based Social Bot Using Analysis Based Techniques

2005-2009 B. Tech. in Computer Science and Engineering, Meerut Institute of Engineering and Technology, Meerut, India

Experience

2022- Till date	Assistant Professor, National Institute of Fashion Technology, New Delhi
2019-2022	Assistant Professor, Vellore Institute of Technology, Chennai
2018-2019	Assistant Professor and Head- Research, Lingaya's Vidyapeeth Faridabad
2012-2013	Assistant Professor, Lord Krishna College of Engineering, Ghaziabad
2009-2010	Assistant Professor, Lord Krishna College of Engineering, Ghaziabad

Other Education

- GATE 2009, and 2016
- UGC-CBSE-NET-2017 and 2019.
- ICAR-ASRB-NET-2018
- TN-SET-2016
- IBPS-PO-MT-2011
- French Certificate Course

Research Interests

- Smart and Secure Computing (e.g., Next Generation Machine Based Communications),
- Network and Information Security (including Cyber Security and Blockchain),
- Privacy (including Genomic and Data),
- Theoretical Computer Science

Awards/ Honour

- Faculty Research Award for the Year 2019-2020 by Vellore Institute of Technology, Chennai, Tamilnadu, India, (Award money: 20000 Indian Rupees).
- Faculty Research Award for the Year 2020-2021 by Vellore Institute of Technology, Chennai, Tamilnadu, India, (Award money: 20000 Indian Rupees).
- Faculty Research Award for the Year 2021-2022 by Vellore Institute of Technology, Chennai, Tamilnadu, India, (Award money: 20000 Indian Rupees).
- **Best Paper Award**, in ICCSA 2020 (Italy, Europe) for Research Article titled "A Novel Feature Extractor Based on the Modified Approach of Histogram of oriented Gradient".
- Recipient of **NF-PwD** Fellowship for pursuing Ph.D. in year 2013.
- Best Undergraduate Thesis Award, Dr. A.P.J. Abdul Kalam University (Formerly U.P.T.U), Lucknow 2009 (published by LAP LAMBERT Academic Publishing, ISBN: 978-3-330-00604-1).

Book Published

Authored

- Amit Kumar Tyagi, Know your Technical Skills, Amazon Independent Publishing, 2016 and 2018.
- **Amit Kumar Tyagi,** Internet of Things: Theory and Practice, BPB Publications (Asia's largest publishers of Computer and IT books), 2022, ISBN: 9789355512437.
- **Amit Kumar Tyagi,** Shaveta Malik, Vehicular Ad-Hoc Networks and Emerging Technologies for Road Vehicle Automation, IET 2022, ISBN-13: 978-1-83953-428-7.
- Amit Kumar Tyagi, N. Sreenath, Intelligent Transportation Systems: Theory and Practice, Springer, 2023, ISBN: 978-981-19-7622-3
- Amit Kumar Tyagi, Advanced Machine Learning: Fundamentals and Algorithms, BPB Publications (Asia's largest publishers of Computer and IT books), 2024.
- Amit Kumar Tyagi, Shrikant Tiwari, Shivani Gupta, 6G-Enabled Technologies for Next Generation: Fundamentals, Applications, Analysis and Challenges, John Wiley and Sons, 2024.

Edited

- Amit Kumar Tyagi, Gillala Rekha, N. Sreenath, Opportunities and Challenges for Blockchain Technology in Autonomous Vehicles, IGI Global, USA, August, 2020, Pages: 316, DOI: 10.4018/978-1-7998-3295-9, ISBN13: 9781799832959
- Amit Kumar Tyagi, Multimedia and Sensory Input for Augmented, Mixed, and Virtual Reality, January, 2021, IGI Global, DOI: 10.4018/978-1-7998-4703-8, ISBN13: 9781799847038
- Amit Kumar Tyagi, Data Science and Data Analytics: Opportunities and Challenges, September 23, 2021, ISBN 9780367628826.
- **Amit Kumar Tyagi**, Computational Analysis and Understanding of Deep Learning for Medical Care: Principles, Methods, and Applications, 2021, ISBN: 9781119785729.
- **Amit Kumar Tyagi**, Ajith Abraham, Arturas Kaklauskas, Intelligent Interactive Multimedia Systems for e-Healthcare Applications, Springer 2021, ISBN: 978-981-16-6542-4.
- Sanjay Misra, **Amit Kumar Tyagi**, Artificial Intelligence for Cyber Security: Methods, Issues and Possible Horizons or Opportunities, Springer, 2021, ISBN 978-3-030-72236-4.
- **Amit Kumar Tyagi,** Ajith Abraham, Recent Trends in Blockchain for Information Systems Security and Privacy, CRC, 2021, ISBN 9780367689438.
- Shaveta Malik, Rohit Bansal, **Amit Kumar Tyagi**, Impact and Role of Digital Technologies in Adolescent Lives, IGI Global, 2021, ISBN13: 9781799883180.
- Sanjay Misra, **Amit Kumar Tyagi**, Vincenzo Piuri, Lalit Garg, Artificial Intelligence for Cloud and Edge Computing: Concepts and Paradigms, Springer, 2022, ISBN: 978-3-030-80820-4.
- Sanjay Misra, **Amit Kumar Tyagi**, Blockchain Applications in the Smart Era, EAI Springer, 2022, ISBN 978-3-030-89546-4.
- Amit Kumar Tyagi, N Sreenath, Handbook of Research of Internet of Things and Cyber-Physical Systems: An Integrative Approach to an Interconnected Future, Apple Academic Press, Exclusive worldwide distribution by CRC Press (Taylor & Francis Group), 2022, ISBN: 978-1-77463-834-7.
- Shaveta Malik, **Amit Kumar Tyagi**, Intelligent Interactive Multimedia Systems for e-Healthcare Applications, Apple Academic Press, Exclusive world-wide distribution by CRC Press (Taylor & Francis Group), 2022, ISBN: 9781774910221.

- Amit Kumar Tyagi, Ajith Abraham, A. Kaklauskas, N. Sreenath, Gillala Rekha, Shaveta Malik, Security and Privacy-Preserving Techniques in Wireless Robotics, CRC, 2022, ISBN: 9780367741730.
- Archana Mire, Shaveta Malik, **Amit Kumar Tyagi**, Advanced Analytics and Deep Learning Models, Wiley Scrivener 2022, ISBN: 9781119791751.
- **Amit Kumar Tyagi,** Ajith Abraham, Recurrent Neural Networks: Concepts and Applications, CRC Press, DOI: https://doi.org/10.1201/9781003307822, eBook ISBN: 9781003307822
- Amit Kumar Tyagi, Ajith Abraham, Farookh Khadeer Hussain, Habil Arturas Kaklauskas, and R. Jagadeesh Kannan, Machine Learning, Blockchain Technologies and Big Data Analytics for IoTs: Methods, Technologies and Applications, IET, 2022, ISBN: 9781839533396 (in Press).
- Amit Kumar Tyagi, Handbook of Research on Technical, *Privacy*, and Security Challenges in a Modern World, IGI Global, 2023, DOI: 10.4018/978-1-6684-5250-9, ISBN13: 9781668452509
- Amit Kumar Tyagi, Using Multimedia Systems, Tools, and Technologies for Smart Healthcare Services, IGI Global, 2023, DOI: 10.4018/978-1-6684-5741-2, ISBN13: 9781668457412
- Amit Kumar Tyagi, Ajith Abraham, Data Science for Genomics, Elsevier, 2022, ISBN: 9780323983525.
- **Amit Kumar Tyagi,** Handbook of Research on Quantum Computing for Smart Environments, IGI Global, 2023, DOI: 10.4018/978-1-6684-6697-1, ISBN: 9781668466971.
- **Amit Kumar Tyagi,** Privacy Preservation of Genomic and Medical Data, Wiley Scrivener 2023.
- **Amit Kumar Tyagi,** Automated Secure Computing for Next-Generation Systems, Wiley Scrivener 2023.
- Lakshmi D., **Amit Kumar Tyagi**, Privacy Preservation and Secured Data Storage in Cloud Computing, IGI Global USA, ISBN13: 9798369305935.
- D. Lakshmi, **Amit Kumar Tyagi**, Emerging Technologies and Security in Cloud Computing, 2024, IGI Global USA, ISBN13: 9798369320815.
- P Baby Maruthi, Smirti P, **Amit Kumar Tyagi**, Machine Learning Algorithms Using Scikit and TensorFlow Environments, IGI Global, 2023. ISBN 13: 9781668485316
- Mahmoud Ragab, Amit Kumar Tyagi, Abdullah Saad Al-Malaise Al-Ghamdi, and Swetta Kukreja, Artificial Intelligence Applied to Industry 4.0, Wiley 2024, ISBN: 978-1-394-21613-0
- Tuan A N, Yasin, **Amit Kumar Tyagi**, Blockchain Technology in the Automotive Industry, CRC Press 2024, ISBN: 9781032584867.
- Avinash Kumar Sharma, Nitin Chanderwal, Shobhit Tyagi, Prashant Upadhyay, Amit Kumar Tyagi, Enhancing Medical Imaging with Emerging Technologies, IGI Global, 2024, ISBN13: 9798369352618
- Amit Kumar Tyagi, Shrikant Tiwari, Sayed S, Industry 4.0, Smart Manufacturing, and Industrial Engineering: Challenges and Opportunities, CRC Press, 2024.
- **Amit Kumar Tyagi**, Shrikant Tiwari, Senthil Kumar A, Artificial Intelligence (AI) Enabled Digital Twin for Smart Manufacturing, Wiley Scrivener 2024.
- Amit Kumar Tyagi, Digital Twin and Blockchain for smart cities, Wiley Scrivener 2024.
- Amit Kumar Tyagi, Artificial Intelligence Enabled Blockchain Technology and Digital Twin for Smart Hospitals, Wiley Scrivener 2024.
- **Amit Kumar Tyagi,** Shrikant Tiwari, Gulshan Soni, Data Analytics and Artificial Intelligence for Predictive Maintenance in Manufacturing, CRC Press, 2024.

- Amit Kumar Tyagi, Shrikant Tiwari, Nagaraj S V, Quantum Computing: The Future of Information Processing, CRC Press, 2024.
- Amit Kumar Tyagi, Shrikant Tiwari, AI and Blockchain in Smart Grids: Fundamentals, Methods, and Applications, CRC Press, 2024.
- Amit Kumar Tyagi, Shrikant Tiwari, Blockchain and Digital Twin Applications in Smart Agriculture, CRC Press, 2024.
- Amit Kumar Tyagi, Shrikant Tiwari, Next Generation Data Science and Blockchain Technology for Society 5.0: Concepts and Paradigms, Elsevier 2025.

Postdocs

None

PhD Students*

- Banita
- Mr. A Mohan Krishna, Registration No: 16PHCS003 (W)

P.G Students (Guided)

- Shashvi Mishra (19MCA1122) Project Title "Cyberbullying: Effect on Youth"
- Sakshi Purwar (19MCA1122) Project Title "Fake News Detection Using Machine Learning"
- Yetukuri Shiva Gopi (15MIS1166) Project Title "MyLudo"
- Mareedu Vamsi Krishna (15MIS1160), Project Title "Programmable Automotive Electronic Break Out Box for Fault Injections"
- Rohit Arya (20MCS1009), Project Title "MRI Brain Image Classification Using Various Deep Learning Architectures"
- Rohit Rai (20 MCA1100), Project Title "Communications security in Vehicular Adhoc Network"
- Akshita Tyagi (21MCA1065), Project Title "Using Deep Leaning Techniques for Text Analysis"

U.G Students (Guided)

- Srii Laasya Kanuru (16BCE123), Project Title "Smart Farming using Machine Learning"
- Aparna Balasubramniam (18BCE1058), Project Title "Self-driving car simulation with reinforcement learning"
- Venkat Ragavan S (18BCE1132), Project Title "Features and Improvements for Azure Load Test Service"
- Anmol Dubey (18BCE1139), Project Title "Utterance Categorization Under Project Cirrus"

Projects

Completed

- AARIN: Affordable, Accurate, Reliable and INnovative Mechanism to Protect a Medical Cyber-Physical System using Blockchain Technology. (Final Work Published in Elsevier) (Seed Grant: 1 Lakhs Rupees).
- P3-Block: Privacy Preserving Parking to Vehicle Users using Blockchain Technology. (Final Work Published in European Conference, Springer), (Seed Grant: 1.5 Lakhs Rupees).

Ongoing

None

Patents

National

- Patent Title 1: IDS-Blockchain Technology: Infrastructure Data Supply Chain Control Through Blockchain Technology (Patent no. 202041006251).
- Patent Title 2: ID Tracking To 4-G Mobile with Security Using Deep Learning Programming (Patent no. 202021018871) (Under Examination)
- Patent Title 3- IoT Based-Detection: Intelligent Vehicle Accident Detection using Machine Learning (Automatically). (Patent no. 202041019666)
- Patent Title 4 ABIE-Voting System: Aadhaar and Blockchain Intelligent Electronic Voting System (Patent no. 202021027657).
- Patent Title 5: Aadhaar Based Electoral System for Indians Citizens (Patent no. 202041019650).
- Patent Title 6: Aadhaar Transports Security: A Novel Approach to Provide Reliable and Secure Services in Public Transports Through Aadhaar (Patent no. 202041026640).
- Patent Title 7: Water Management Technology: Under Smart City Waste Water Management Using IoT- Based, Machine Learning Technology (Patent no 202041055915). (Under Examination)
- Patent Title 8: Single Debit cum Credit Card for Making Money Transactions (Patent no. 202141007247) (Under Examination)
- Patent Title 9: Implementing Blockchain Technology in Automated Teller Machine (ATM) based Electronic Voting Machine (Patent no 202141046135) (Granted).
- Patent Title 10: Data Link Bridge (DLB): An Algorithm for Securing the data from Cryptanalysis (Patent no. 202141051540) (Under Examination)
- Patent Title 11: E-Authentication system using Eye Blinking and Deep Learning (Patent no. 202211016237) (Under Examination)
- Patent Title 12: Mobile Based Application for Automatic Irrigation and Fertigation (Patent no. 202241020224)
- Patent Title 13: Automatic Railway Crossing Gate Controller Using Mobile Text Messages (Patent no. 202241021998)
- Patent Title 14: Neural network based Facial Recognition using Deep Learning (Patent no. 202311025684) (Under Examination)
- Patent Title 15: Managing a single debit cum credit, etc., card transactions through an Android Application, (Patent no. 202411013371), (Under Examination).
- Patent Title 16: Maternity Support Garment with Posture Detection For Pregnant Women Using IoT Devices, (Patent no. 202411013372), (Under Examination).
- Patent Title 17: *Identifying Fraud in Banking using Machine learning Techniques* (Patent no. 202421005507), (Under Examination).

International

USA

• Patent Title 1: System for medical diagnosis using artificial intelligence and deep learning approach, Application no. 17/806,573, Field on June 13, 2022, Published Oct. 6, 2022. (Published).

- Patent Title 2: Method for COVID 19 Detection to Spread Prevention and Medical Assistance Using Machine Learning (Patent no. US17/551,376). Field on Dec 15, 2021. Published Apr 7, 2-22. (Published).
- Patent Title 3: Symbol Recognition system: An Image Recognition Algorithm to process Images and to identify Symbols using AI-Based Programming (Patent no. US17392619), (Published).

Australia

- Patent Title 1: IUIT- Traffic Control Alert: Intelligent Traffic Control and Alert Using IoT-Based Technology (Patent no. 2021100091) (Granted).
- Patent Title 2: Intelligent-SIM: Multiple Company Mobile Number installed in Single SIM (Patent no. 2021101069) (Granted).
- Patent Title 3: Intelligent Wi-Fi Mobile Battery Charging using Beagle bone kit (Patent No. 2021102295) (Granted).

Germany

• Patent Title 1: Neural Networks for Handwriting Detection System Using Brain Net and Al-Algorithm (Patent no.202022101842.1) (**Granted**).

United Kingdom

• Machine Learning Based Epizootic Ulcerative Syndrome Fish Disease Detection System. Patent no. 6300172 (**Granted**).

Journals (SCI/ SCIE/ Scopus/ WoS Indexed)

- Amit Kumar Tyagi, G. Aghila, "A Wide Scale Survey on Botnet", International Journal of Computer Applications (ISSN: 0975-8887), Volume 34, No.9, pp. 9-22, November 2011, https://doi.org/10.1016/j.iotcps.2021.12.002, (Scopus).
- Amit Kumar Tyagi, N. Sreenath, "Future Challenging Issues in Location Based Services", International Journal of Computer Applications (ISSN: 0975 –8887), Volume 114, No. 5, pp.51-56, March 2015, (Scopus).
- Amit Kumar Tyagi, N. Sreenath, "A Comparative Study on Privacy Preserving Techniques for Location Based Services", British Journal of Mathematics and Computer Science (ISSN: 2231-0851), Volume 10, No.4, pp. 1-25, July 2015, 10.9734/BJMCS/2015/16995
- Amit Kumar Tyagi, N. Sreenath, "Preserving Location Privacy in Location Based Services against Sybil Attacks", International Journal of Security and Its Applications (ISSN: 1738-9976 (Print), ISSN: 2207-9629 (Online)), Volume 9, No.12, pp.189-210, December 2015, 10.14257/ijsia.2015.9.12.18, (Scopus).
- Amit Kumar Tyagi, N. Sreenath, "Providing Together Security, Location Privacy and Trust for Moving Objects", International Journal of Hybrid Information Technology (ISSN: 1738-9968), Volume 9, No.3, pp. 221-240, March 2016, DOI: 10.14257/ijhit.2016.9.3.21, (Scopus).
- Amit Kumar Tyagi, "Cyber Physical Systems (CPSs) Opportunities and Challenges for Improving Cyber Security", International Journal of Computer Applications (ISSN: 0975 8887) Volume 137, No.14, pp. 19-27, March 2016, 10.5120/ijca2016908877
- Amit Kumar Tyagi, A. Mohan Krishna, Shaveta Malik, Meghna Manoj Nair, Sreenath Niladhuri, "Never Trust Anyone: Trust-Privacy Trade-Offs in Vehicular Ad hoc Network", British Journal of Mathematics and Computer Science (ISSN: 2231-0851), Volume 19, No. 6,

- pp.1-23, November 2016, DOI: 10.25046/aj050150, (Scopus).
- Amit Kumar Tyagi, N. Sreenath, "ISPAS: An Intelligent, Smart Parking Allotment System for Travelling Vehicles in Urban Areas", International Journal of Security and Its Applications (IJSIA), Volume 11, No.12, pp. 45-64, December 2017, DOI:10.14257/ijsia.2017.11.12.05, (Scopus).
- Gillala Rekha, Amit Kumar Tyagi, and V. Krishna Reddy, "A Wide Scale Classification of Class Imbalance Problem and its Solutions: A Systematic Literature Review", Journal of Computer Science, Vol.15, No. 7, 2019, ISSN Print: 1549-3636, pp. 886-929, (Scopus).
- Gillala Rekha, **Amit Kumar Tyagi**, and V Krishna Reddy, "Solving Class Imbalance Problem Using Bagging, Boosting Techniques, with and without Noise Filter Method", International Journal of Hybrid Intelligent Systems, vol. 15, no. 2, pp. 67-76, 2019, DOI: 10.3233/HIS-190261, **(Web of Science).**
- Gillala Rekha, V. Krishna Reddy and **Amit Kumar Tyagi**, "A Novel Approach for Solving Skewed Classification Problem using Cluster Based Ensemble Approach", Mathematical Foundations of Computing, February 2020, Vol. 3, no. 1, pp. 1-9. DOI: 10.3934/mfc.2020001, (Web of Science).
- Amit Kumar Tyagi, A. Mohan Krishna, Shaveta Malik, Meghna M Nair, N Sreenath, "*Trust and Reputation Mechanisms in Vehicular Ad Hoc Networks: A Systematic Review*", Advances in Science, Technology and Engineering Systems Journal, Volume 5, Issue 1, pp. 387-402, ISSN: 2415-6698, 2020, DOI: 10.25046/aj050150, (Scopus).
- Gillala Rekha, Shaveta Malik, Meghna Manoj Nair, and **Amit Kumar Tyagi**, "*Intrusion Detection in Cyber Security: Role of Machine Learning and Data Mining in Cyber Security*", ASTESJ, Volume 5, Issue 3, pp. 72-81, ISSN: 2415 6698, 2020, DOI: 10.25046/aj050310, (Scopus).
- Amit Kumar Tyagi, Ajith Abraham "Internet of Things (IoTs): Future Challenging Issues and Possible Research Directions", International Journal of Computer Information Systems and Industrial Management Applications, ISSN 2150-7988, Volume 12 (2020) pp. 113-124, (Scopus).
- Gillala Rekha, V. Krishna Reddy, and **Amit Kumar Tyagi**, "*CIRUS Critical Instances removal-based Under-Sampling A solution for Class Imbalance*", International Journal of Hybrid Intelligent Systems, Vol. 16, no. 2, pp. 55-66, 2020, ISSN: 1875-8819, DOI: 10.3233/HIS-200279, (Web of Science).
- Amit Kumar Tyagi, Meghna Manoj Nair, N Sreenath, and Ajith Abraham, "Security, Privacy Research issues in Various Computing Platforms: A Survey and the Road Ahead", Journal of Information Assurance and Security (JIAS), 2020, Vol. 15 Issue 1, p1-16, ISSN 1554-1010 (Web of Science).
- Gillala Rekha, V. Krishna Reddy, and **Amit Kumar Tyagi**, "*KDOS Kernel Density based Over Sampling A Solution to Skewed Class Distribution*", 2020, Journal of Information Assurance and Security (JIAS), Vol. 15 Issue 2, pp. 44-52, 2020, DOI: 10.1016/j.ins.2019.10.017, ISSN 1554-1010 (**Web of Science**).
- Gillala Rekha, V.Krishna Reddy, and **Amit Kumar Tyagi**, "*An EMD-Based Undersampling Approach for Handling Class-Imbalanced Data*", International Journal of Intelligent Information and Database Systems, Inderscience, Vol.13 No.2/3/4, pp. 1-10, ISSN: 1751-5866 (Online) August 2020. DOI: 10.1504/IJIIDS.2020.109463, (**Scopus**).
- Amit Kumar Tyagi, Meghna Manoj Nair, "Internet of Everything (IoE) and Internet of Things (IoTs): Threat Analyses, Possible Opportunities for Future", Journal of Information Assurance and Security (JIAS), Vol. 15 Issue 4, October 2020, pp. 194-218, ISSN 1554-1010 (Web of Science).

- Varsha. R, Meghna Manoj Nair, Siddharth M Nair, **Amit Kumar Tyagi,** "Deep Learning Based Blockchain Solution for Preserving Privacy in Future Vehicles", International Journal of Hybrid Intelligent Systems, IOS Press, vol. 16, no. 4, pp. 223-236, 2020, ISSN: 1875-8819, DOI: 10.3233/HIS-200289, **(Web of Science).**
- Sravanthi, K. and Burugari, Vijay Kumar, **Amit Kumar Tyagi**, "Preserving Privacy Techniques for Autonomous Vehicles", International Journal of Emerging Trends in Engineering Research, 2020, Vol. 8, Issue 9, pp. 5180-5190, ISSN 2347 3983, DOI: 10.30534/ijeter/2020/48892020, (Scopus).
- Meghna Manoj Nair, Amit Kumar Tyagi "Privacy: History, Statistics, Policy, Laws, Preservation and Threat Analysis", Journal of Information Assurance and Security (JIAS), Volume 16, June 2021, pp. 24-34, ISSN 1554-1010 (Web of Science).
- Amit Kumar Tyagi, Aswathy S U "Autonomous Intelligent Vehicles (AIV): Research Statements, Open Issues, Challenges and Road for Future", International Journal of Intelligent Networks, Volume 2, pp. 83-102. Elsevier, 2021, https://doi.org/10.1016/j.ijin.2021.07.002 (Scopus).
- Amit Kumar Tyagi, Aswathy S U, G. Aghila, N Sreenath "AARIN: Affordable, Accurate, Reliable and INnovative Mechanism to Protect a Medical Cyber-Physical System using Blockchain Technology" International Journal of Intelligent Networks, Volume 2, 2021, pp. 177-183, Elsevier, 2021, https://doi.org/10.1016/j.ijin.2021.09.007 (Scopus).
- Sajidha S A, Udai Agarwal, Pruthviraj R P, Sparsh Agarwal, Nisha V M, **Amit Kumar Tyagi,** "A Simple, Effective Distance and Density Based Outlier Detection Algorithm, Indonesian Journal of Electrical Engineering and Computer Science, Vol. 24, No. 2, November 2021, ISSN: 2502-4760 (Print), pp. 1141-1148, http://doi.org/10.11591/ijeecs.v24.i2 (**Scopus**).
- S. Subasree, N.K. Sakthivel, Khushboo Tripathi, Deepshikha Agarwal, **Amit Kumar Tyagi**, "Combining the Advantages of Radiomic Features based Feature Extraction and Hyper Parameters tuned RERNN using LOA for Breast Cancer Classification", Biomedical Signal Processing and Control, 72, Elsevier, 2022, ISSN: 1746-8094, https://doi.org/10.1016/j.bspc.2021.103354, (SCI).
- Ashwani Prasad, **Amit Kumar Tyagi**, Maha M. Althobaiti, Ahmed Almulihi, Romany F. Mansour and Ayman M. Mahmoud "*Human Activity Recognition using Cell Phone-based Accelerometer and Convolution Neural Network*", Applied Science, MDPI, December **2021**, *11*(24), ISSN: 2076-3417, https://doi.org/10.3390/app112412099, **(SCI)**.
- Amit Kumar Tyagi, N. Sreenath, "Cyber Physical Systems: Analysis, Challenges and Possible Solutions", Internet of Things and Cyber-Physical Systems, Volume 1, Pages 22-33, Elsevier, 2021, https://doi.org/10.1016/j.iotcps.2021.12.002. (Scopus).
- S. Subasree, N.K. Sakthivel, V.R.Balasaraswathi, **Amit Kumar Tyagi,** "Emperor Penguin Optimization for Precise Segmentation of Mammogram Images", Journal of Circuits, Systems, and Computers, Volume 31, No. 7, February 2022, ISSN: 0218-1266, https://doi.org/10.1142/S0218126622501316, (SCI).
- S Subasree, N. K. Sakthivel, Shaveta Malik, **Amit Kumar Tyagi**, "A Wrapper Based Feature Extraction, Framework Based on Alex Deep Convolutional Neural Network Parameters Optimized Using Gradient-Based Optimizer for Mammogram Images", Concurrency and Computation Practice and Experience, April 2022, Online ISSN:1532-0634, https://doi.org/10.1002/cpe.7008, **(SCI)**.
- Akshita Tyagi, Swetta Kukreja, Meghna Manoj Nair, **Amit Kumar Tyagi**, "Machine Learning: Past, Present and Future", NeuroQuantology, August 2022, E-ISSN: 1303-5150. (**Scopus**).
- S Subasree, N. K. Sakthivel, Pachhaiammal Alias Priya M, Amit Kumar Tyagi, "Breast Lesion Identification and categorization using Mammography screening based on Combined CRNN

- framework with Parameters optimized using multi-objective seagull optimization algorithm", Concurrency and Computation: Practice and Experience, Wiley, October 2022, https://doi.org/10.1002/cpe.7348, (SCI).
- Amit Kumar Tyagi, D Sathian, Deepshikha A, and Hasmath "*Blockchain Internet of Things Applications: Opportunities and Challenges for Industry 4.0 and Society 5.0*", MDPI sensors, January 2023, 23(2):947, DOI: 10.3390/s23020947 (SCI).
- S. Subasree, N. K. Sakthivel, M. Shobana, and **Amit Kumar Tyagi**, Deep Learning based Improved Generative Adversarial Network for Addressing Class Imbalance Classification Problem in Breast Cancer Dataset, International Journal of Uncertainty, Fuzziness and Knowledge-Based SystemsVol. 31, No. 03, pp. 387-412 (2023) DOI: https://doi.org/10.1142/S0218488523500204. **(SCI).**
- S. Vignesh Baalaji, S. Sandhya, S. A. Sajidha, V. M. Nisha, M. D. Vimalapriya, **Amit Kumar Tyagi**, "Autonomous face mask detection using single shot multibox detector, and ResNet-50 with identity retrieval through face matching using deep siamese neural network", Journal of Ambient Intelligence and Humanized Computing, May 2023. https://doi.org/10.1007/s12652-023-04624-7 (SCI).
- S. Subasree, N. K. Sakthivel, and **Amit Kumar Tyagi** "Blockchain based packet parser architecture for securing cyber infrastructure", International Journal of Mobile Communications (IJMC), Inderscience, April 2024 (SCI).
- Amit Kumar Tyagi, Swetta Kukreja, Richa, Poushikkumar Sivakumar, *Role of Blockchain Technology in Smart Era: A Review on Possible Smart Applications*, IJIKM, World Scientific, 2023 (Scopus).
- Ajanthaa Lakkshmanan, Gulshan Soni, Anand Kumar Mishra, Senthil Kumar Arumugam, Amit Kumar Tyagi, A deep learning based credit card fraud detection using feature engineering: An analytical approach, Journal of Autonomous Intelligence (2024) Volume 7 Issue 4, doi: 10.32629/jai.v7i4.1477
- Bukola Fatimah Balogun, Khushboo Tripathi, Shrikant Tiwari, Shyam Mohan J S, **Amit Kumar Tyagi**, A blockchain-based deep learning approach for cyber security in next-generation medical cyber-physical systems, Journal of Autonomous Intelligence (2024) Volume 7 Issue 4, doi: 10.32629/jai.v7i4.1478.
- Priyanga Subbiah, **Amit Kumar Tyagi** and Krishnaraj N, Using Optuna and Genetic Algorithm together facilitate the classification of Plant Leaf Diseases, IJCISIM 2024.
- Priyanga Subbiah, Amit Kumar Tyagi and Krishnaraj N, A Crop Disease Severity Index Derived from Transfer Learning and Feature Fusion Using Enhanced OPTICS Algorithm, IJHIS IOS Press, 2024.
- Amit Kumar Tyagi, Khushboo Tripathi, Swetta Kukreja, Shrikant Tiwari, Aswathy S U, Blockchain enabled artificial intelligence for Industry 5.0: Vision, challenges and opportunities, Journal of Autonomous Intelligence (2024) Volume 7 Issue 4, doi: 10.32629/jai.v7i4.14
- Shreyas Madhav A V, **Amit Kumar Tyagi,** N Sreenath, "*Transformative View of Wired to Wireless Technologies: A Survey for Automated and Interconnected Future*, MDPI Sensors, 2023 (Communicated).
- Naveen George, Vineeth Victor, Meghna Manoj Nair, **Amit Kumar Tyagi**, "A Comparative Study of Machine Learning Algorithms for Skin Cancer Detection", Springer, 2023 (SCI, Communicated).

Others (Non-Scopus/ ESCI/SSCI)

• A.Mohan Krishna, **Amit Kumar Tyagi,** S.V.A.V.Prasad, "*Preserving Privacy In Future Vehicles of Tomorrow*", Journal of Critical Reviews, ISSN-2394-5125 Vol 7, Issue 19, 2020.

• Amit Kumar Tyagi, G Rekha, "Role of Emerging Technologies in COVID 19: Analyses, Predictions, and Future Countermeasures", SSRN Elsevier, December 2020.

Conferences (Scopus/ Web of Science Indexed)

- Amit Kumar Tyagi, G.Aghila, "Detection of Fast Flux Network Based Social Bot Using Analysis Based Techniques", July 2012, in proceeding of IEEE/ International Conference on Data Science and Engineering (ICDSE), Cochin, Kerala, pp. 24-37, , ISBN: 978-1-4673-2148-8, DOI: 10.1109/ICDSE.2012.6281898
- Amit Kumar Tyagi, N.Sreenath, "Location Privacy Preserving Techniques for Location Based Services over Road Networks", 2-4 April 2015, in proceeding of IEEE/ International Conference on Communication and Signal Processing (ICCSP), ISBN: 978-1-4799-8080-2, Tamilnadu, India, pp. 1319 1326, DOI: 10.1109/ICCSP.2015.7322723
- Amit Kumar Tyagi, N.Sreenath, "Providing Trust Enabled Services in Vehicular Cloud Computing", 6-7 May 2016, in proceeding of IEEE/ International Conference on Research Advances in Integrated Navigation Systems (RAINS), Bangalore, India, pp. 1-7, DOI: 10.1109/RAINS.2016.7764391
- Amit Kumar Tyagi, N.Sreenath, "Providing Trust Enabled Services in Vehicular Cloud Computing (extended version)", 25-26 August, 2016, in proceeding of ACM/ International Conference on Informatics and Analytics (ICIA), Pondicherry, India, DOI: 10.1109/RAINS.2016.7764391
- R.Radha, **Amit Kumar Tyagi**, G.Staflin Betzy, and K.Kathiravan, "Precision Crop Protection using Wireless Sensor Network", 6-8 December 2018, in proceeding of Springer/ 18th International Conference on Intelligent Systems Design and Applications (ISDA), VIT, Vellore, Tamilnadu, India, DOI: 10.1007/978-3-030-16657-1 26
- Gillala Rekha, **Amit Kumar Tyagi**, and V Krishna Reddy, "A Novel Approach to Solve Class Imbalance Problem Using Noise Filter Method", 6-8 December 2018, in proceeding of Springer/ 18th International Conference on Intelligent Systems Design and Applications (ISDA), VIT, Vellore, Tamilnadu, India, DOI: 10.1007/978-3-030-16657-1_45
- Amit Kumar Tyagi, Gillala Rekha, and N Sreenath "Is your Privacy Safe with Aadhaar?: An Open Discussion", 20-22 December 2018, in proceeding of IEEE/ Fifth International Conference on Parallel, Distributed and Grid Computing (PDGC), Jaypee University of Information Technology, Shimla, Himachal Pradesh, India, DOI: 10.1109/PDGC.2018.8745836
- Amit Kumar Tyagi, Gillala Rekha and N Sreenath, "Real Virtual IDentification (RVID) Providing a Virtual, Secure and Anonymous ID", 21-22 December 2018, in proceeding of Springer/ Third International Conference on Intelligent Communication, Control and Devices (ICICCD), UPES, Dehradun, Uttarakhand, India, DOI: 10.1007/978-981-13-8618-3 56
- R. Radha, Amit Kumar Tyagi, and K.Kathiravan, "A Rate Control Algorithm to improve TCP over RFID Reader Network", 21-22 December 2018, in proceeding of Springer/ Third International Conference on Intelligent Communication, Control and Devices (ICICCD), UPES, Dehradun, Uttarakhand, India, DOI: 10.1007/978-981-13-8618-3_3
- G.Rekha, **Amit Kumar Tyagi**, "Necessary Information to Know to Solve Class Imbalance Problem: From a User's Perspective", 8-9 March, 2019, in proceeding of Springer/ The 2nd International Conference on Recent Innovations in Computing (ICRIC), Central University of Jammu, J & K, India, DOI: 10.1007/978-3-030-29407-6_46
- G. Rekha, **Amit Kumar Tyagi**, and Nandula Anuradha, "Integration of Fog Computing and Internet of Things: An Useful Overview", 8-9 March, 2019, in proceeding of Springer/ The 2nd

- International Conference on Recent Innovations in Computing (ICRIC), Central University of Jammu, J & K, India, pp. 91-102, DOI: 10.1007/978-3-030-29407-6 8
- Amit Kumar Tyagi, G. Rekha and N Sreenath, "Beyond the Hype Internet of Things Concepts, Security and Privacy Concerns", 22-23 March 2019, in Proceeding of Springer/International Conference on Emerging Trends in Engineering, College of Engineering (ICETE), Osmania University, Hyderabad, Telangana, India, DOI: 10.1007/978-3-030-24322-7 50
- Shivani Bansal, Meenu Gupta, and Amit Kumar Tyagi, "Building a Character Recognition System for Vehicle's Applications", 22-23 March 2019, in Proceeding of Springer/ International Conference on Emerging Trends in Engineering, College of Engineering (ICETE), Osmania University, Hyderabad, Telangana, India, DOI: 10.1007/978-3-030-24322-7 21
- Amit Kumar Tyagi, Kavita Agarwal, Deepti Goyal, N. Sreenath, "A Review on Security and Privacy Issues in Internet of Things", 13-14 April 2019, in Proceeding of Springer/International Conference on Advancements in Computing and Management (ICACM-2019), Jagan Nath University, Rajasthan, India, DOI:10.1007/978-981-15-0222-4 46
- M.Shamila, K.Vinuthna, and Amit Kumar Tyagi, "A Review on Several Critical Issues and Challenges in IoT based e-Healthcare System", 15-17 May 2019, in Proceeding of Springer/ International Conference on Intelligent Computing and Control Systems (ICCS-2019), Madurai, India. DOI: 10.1109/ICCS45141.2019.9065831
- Meghna Manoj Nair, Amit Kumar Tyagi, Richa Goyal, "Medical Cyber Physical Systems and Its Issues", 11-12 November 2019, in International Conference on Recent Trends in Advanced Computing 2019, VIT Chennai, Tamilnadu India, Volume 165, 2019, Procedia Computer Science, Pages 647-655, https://doi.org/10.1016/j.procs.2020.01.059.
- Savita Sindhu, Shruti Vashist, V.R.Singh, **Amit Kumar Tyagi**, "The Qualitative Study on Input Output Channel Configurations in Wireless Body Area Network", 11-12 November 2019, in Procedia Computer Science/International Conference on Recent Trends in Advanced Computing 2019, VIT Chennai, Tamilnadu India, https://doi.org/10.1016/j.procs.2020.01.022.
- G.Rekha, V.Krishna Reddy Reddy and **Amit Kumar Tyagi**, "Chaotic Salp Swarm Optimization Using SVM for Class Imbalance Problems", 10-12 December, 2019, in Proceeding of Springer/ 19th International Conference on Hybrid Intelligent Systems (HIS 2019), VIT Bhopal, Madhya Pradesh, India, DOI:10.1007/978-3-030-49336-3 22.
- Shashvi Mishra, **Amit Kumar Tyagi** "Intrusion Detection in Internet of Things Based Applications using Blockchain Technology", 12-14 December, 2019, in Proceeding of IEEE Xplore/3rd International conference on I-SMAC (IoT in Social, Mobile, Analytics and Cloud) (I-SMAC 2019), Tamilnadu, India, DOI: 10.1109/I-SMAC47947.2019.9032557
- Sravanthi Reddy, Kavita Agarwal and **Amit Kumar Tyagi**, "Beyond Things: A Systematic Study of Internet of Everything", 16-18 December 2019, in Proceeding of Springer/ 8th World Congress on Information and Communication Technologies, GIET University, Odisha, India, DOI: 10.1007/978-3-030-49339-4 23
- Gillala Rekha and **Amit Kumar Tyagi**, "Cluster-based Under-Sampling using Farthest Neighbour Technique for Imbalanced Datasets", 13-14 December, 2019, in Proceeding of Springer/ 10th International Conference on Innovations in Bio-Inspired Computing and Applications, GIET University, Odisha, India, DOI:10.1007/978-3-030-49339-4 5
- Deepti Goyal, Amit Kumar Tyagi, "A Look at Top 35 Problems in the Computer Science Field for the Next Decade", 13-14 December, 2019, in Proceeding of Taylor and Francis (T&F)/ 4th International Conference on Information and Communication Technology for Competitive Strategies (ICTCS-2019), Udaipur, Rajasthan, India,

- Shashvi Mishra, Kavita Agarwal, **Amit Kumar Tyagi**, "Intrusion Detection in Internet of Things Based e-Healthcare System A Systematic Review", 13-14 December, 2019, in Proceeding of Taylor and Francis (T&F)/ 4th International Conference on Information and Communication Technology for Competitive Strategies (ICTCS-2019), Udaipur, Rajasthan, India, ISBN: 9781003052098
- Gillala Rekha, Shaveta Malik, Amit Kumar Tyagi, V Krishna Reddy, "A Survey on Data Level Techniques A Customer Churn Prediction Case Study", 13-14 December 2019, in Proceeding of Taylor and Francis (T&F)/ 4th International Conference on Information and Communication Technology for Competitive Strategies (ICTCS-2019), Udaipur, Rajasthan, India. ISBN: 9781003052098, pp. 1-15, DOI:10.1201/9781003052098-37
- Deepti Goyal, Shaveta Malik, Richa Goyal, and **Amit Kumar Tyagi** and G. Rekha "Emerging Trends and Challenges in Data Science and Big Data Analytics", *24-25 February 2020, in Proceeding of IEEE/ International Conference on Emerging Trends in Information Technology and Engineering, VIT Vellore, Tamilandu, India. DOI:* 10.1109/ic-ETITE47903.2020.316
- Rekha Gillala, V. Krishna Reddy, Amit Kumar Tyagi and Meghna Manoj Nair, "Distance-based Bootstrap Sampling in Bagging for Imbalanced Data-Set", 24-25 February 2020, in Proceeding of IEEE/ International Conference on Emerging Trends in Information Technology and Engineering, VIT Vellore, Tamilandu, India, DOI: 10.1109/ic-ETITE47903.2020.345
- A Mohan Krishna and Amit Kumar Tyagi, "Intrusion Detection in Intelligent Transportation System and its Applications using Blockchain Technology", 24-25 February 2020, in Proceeding of IEEE/ International Conference on Emerging Trends in Information Technology and Engineering, VIT Vellore, Tamilandu, India, DOI: 10.1109/ic-ETITE47903.2020.332.
- Amit Kumar Tyagi, Deepti Goyal, "A Survey of Privacy leakage and Security vulnerabilities in the Internet of Things", 10-12 June 2020 in Proceeding of IEEE/ ICCES 2020: 5th International Conference on Communication and Electronics Systems, PPG Group of Institution, Coimbatore, Tamilnadu, India, DOI: 10.1109/ICCES48766.2020.9137886.
- Amit Kumar Tyagi, Shabnam Kumari, Terrance Frederick Fernandez, C. Aravindan "P3 Block: Privacy Preserved, Trusted Smart Parking Allotment for Future Vehicles of Tomorrow", 1-4 July, 2020, in Proceeding of Springer/ 20th International Conference ICCSA, Italy, DOI: 10.1007/978-3-030-58817-5 56.
- Shaveta Malik, Archana M, **Amit Kumar Tyagi**, Vasudha Arora, "A Novel Feature Extractor Based on the Modified Approach of Histogram of Oriented Gradient", *1-4 July, 2020, in Proceeding of Springer/ 20th International Conference ICCSA, Italy.* (Best Paper Award), DOI:10.1007/978-3-030-58817-5 54
- Shivani Banal, Meenu Gupta, **Amit Kumar Tyagi**, "A Necessary Review on Optical Character Recognition (OCR) System for Vehicular Applications", *15-17 July 2020, in Proceeding of IEEE/ 2nd International Conference on Inventive Research in Computing Applications (ICIRCA)*, *2020*, Tamilnadu, India, DOI: 10.1109/ICIRCA48905.2020.9183330
- Meghna Manoj Nair, Shabnam Kumari, Amit Kumar Tyagi, and Sravanthi Reddy "Deep Learning for Medical Image Recognition: Open Issues and A Way to Forward", 24-25 July 2020, in Proceeding of Springer/ ICIMMI-2020, 2nd International Conference on Information Management & Machine Intelligence, Jaipur, Rajasthan, India, 2020, DOI: 10.1109/ICIRCA48905.2020.9183330
- Geeta M, G Rekha, Amit Kumar Tyagi, "Performance Analysis of Under-sampling Approaches for Solving Customer Churn Prediction", 24-25 July 2020, in Proceeding of Springer/ICIMMI-2020, 2nd International Conference on Information Management & Machine Intelligence, Jaipur, Rajasthan, India, 2020, DOI:10.1007/978-981-15-9689-6 37

- Meghna Manoj Nair, Shabnam Kumari, Amit Kumar Tyagi, "Internet of Things, Cyber Physical System and Data Analytics: Open Questions and Future Perspectives", 24-25 July 2020, in Proceeding of Springer/ ICIMMI-2020, 2nd International Conference on Information Management & Machine Intelligence, Jaipur, Rajasthan, India, 2020, DOI:10.1007/978-981-15-9689-6 36
- Amit Kumar Tyagi, Terrance Frederick Fernandez, and Aswathy S U, Blockchain and Aadhaar Based Electronic Voting System, 5-7 November 2020, in Proceeding of IEEE/ 4th International Conference on Electronics, Communication and Aerospace Technology (ICECA 2020), RVS Technical Campus, Coimbatore, Tamilnadu, India, 2020, DOI: 10.1109/ICECA49313.2020.9297655
- Bhavya Gudeti, Terrance Frederick Fernandez, Shashvi Mishra, Amit Kumar Tyagi, Shaveta Malik and Shabnam Kumari, A Novel Approach to Predict Chronic Kidney Disease using Machine Learning Algorithms, 5-7 November 2020, in Proceeding of IEEE/ 4th International Conference on Electronics, Communication and Aerospace Technology (ICECA 2020), November 2020, Tamilnadu, India, DOI: 10.1109/ICECA49313.2020.9297392
- Amit Kumar Tyagi, Terrance Frederick Fernandez, Shashvi Mishra, Shabnam Kumari, "Intelligent Automation Systems at the Core of Industry 4.0", 12-15 December 2020, in Proceeding of Springer/ ISDA, pp. 1-18, 2020, DOI: 10.1007/978-3-030-71187-0_1
- Shabnam K Tyagi, V Vani, Shaveta Malik, **Amit Kumar Tyagi** and Sravanti K Reddy, Analysis of Text Mining Tools in Disease Prediction, *14-16 December 2020, in Proceeding of Springer/ HIS 2020, pp. 546-564, DOI: 10.1007/978-3-030-73050-5_55.*
- Varsha Ramesh, Siddharth Nair, Amit Kumar Tyagi, Aswathy S U and RadhaKrishnan R, The Future with Advanced Analytics: A Sequential Analysis of the Disruptive Technology's Scope, 14-16 December 2020, in Proceeding of Springer/HIS 2020, pp. 565-57, DOI: DOI:10.1007/978-3-030-73050-5 56
- Sri Laasya.Kanuru, Amit Kumar Tyagi, Aswathy S U, Terrance Frederick Fernandez, N Sreenath, Shashvi Mishra, "Prediction of Pesticides and Fertilizers using Machine Learning and Internet of Things", 25-27 January 2021, in the proceeding of IEEE/ 2021 International Conference on Computer Communication and Informatics (ICCCI), pp. 1-6, 2021, Tamilnadu, India, DOI: 10.1109/ICCCI50826.2021.9402536
- Meghna Manoj Nair, Amit Kumar Tyagi, N Sreenath, "The Future with Industry 4.0 at the Core of Society 5.0: Open Issues, Future Opportunities and Challenges", 25-27 January 2021, in the Proceeding of IEEE/ 2021 International Conference on Computer Communication and Informatics (ICCCI), Sri Shakthi Institute of Engineering and Technology (SIET), 2021, pp. 1-7, Tamilnadu, India, DOI: 10.1109/ICCCI50826.2021.9402498
- G Rekha, Amit Kumar Tyagi, Sreenath N., Mishra S., "Class Imbalanced Data: Open Issues and Future Research Directions", 25-27 January 2021, in the Proceeding of IEEE/ 2021 International Conference on Computer Communication and Informatics (ICCCI), Sri Shakthi Institute of Engineering and Technology (SIET), 2021, pp. 1-7, Tamilnadu, India, DOI: 10.1109/ICCCI50826.2021.9402272
- Shruti Kute, Amit Kumar Tyagi, Shaveta Malik, Atharva D, "Internet Based Healthcare Things Driven Deep Learning Algorithm for Detection and Classification of Cervical Cells", 04-05 September 2021, in the Proceeding of Springer/ CIS 2021, CHRIST (Deemed to be University), Bengaluru, Karnataka, India, 2021, pp. 263-278, DOI:10.1007/s11227-020-03159-4
- Shruti Kute, Shreyas Madhav A V, Amit Kumar Tyagi, Atharva D, "Authentication Framework for Healthcare Devices Through Internet of Things and Machine Learning", 28-29 September 2021, in the Proceeding of Springer/ ICECMSN 2021, RV Institute of Technology

- and Management, Bengaluru, Karnataka, India, 2021, pp. 399-415, DOI: 10.1007/978-981-16-9605-3 27
- Deekshetha H R, Shreyas Madhav A V, Amit Kumar Tyagi, "Traffic Prediction using Machine Learning", 28-29 September 2021, in the Proceeding of Springer/ ICECMSN 2021, RV Institute of Technology and Management, Bengaluru, Karnataka, India, 2021, pp. 969-983, DOI: 10.1007/978-981-16-9605-3_68
- B.Abhishek, **Amit Kumar Tyagi,** "An Useful Survey on Supervised Machine Learning Algorithms: Comparisons and Classifications" 29-30 October 2021, in the Proceeding of Springer/ ICADET 2021, Tamilnadu, India, 2021, pp 293–307, DOI: 10.1007/978-981-19-1111-8 24.
- Shreyas Madhav A V, **Amit Kumar Tyagi,** "Explainable Artificial Intelligence (XAI): Connecting Artificial Decision Making and Human Trust in Autonomous Vehicles", *30-31 October 2021, in the proceeding of Springer/IC4S-2021, Ghaziabad, Uttar Pradesh, India, pp. 123-136,* 10.1007/978-981-19-1142-2 10
- G Harika, Khushboo Tripathi, Amit Kumar Tyagi, "Internet of Things Based e-Healthcare: Key Challenges and Recommended Solutions for Future", 30-31 October 2021, in the proceeding of Springer/ IC4S-2021, Ghaziabad, Uttar Pradesh, India, pp. 461-474, DOI: 10.1007/978-981-19-1142-2_37. Dheeraj Sharma, Amit Kumar Tyagi, "Preserving Privacy in Internet of Things (IoT) based Devices", 30-31 October 2021, in the proceeding of Springer/ IC4S-2021, Ghaziabad, Uttar Pradesh, India, pp. 803-816, DOI:10.1007/978-3-030-24322-7 50
- Hariket Sukesh Kumar Sheth, **Amit Kumar Tyagi**, "Mobile Cloud Computing: Issues, Applications and Scope in COVID-19", *13-15 December 2021*, in the proceeding of Springer/ISDA, 2021, pp. 587-600, DOI: 10.1007/978-3-030-96308-8 55
- Meghna Manoj Nair, Amit Kumar Tyagi, "Preserving Privacy using Blockchain Technology in Autonomous Vehicles", 02-04 December 2021, in the proceeding of Springer/ICNSBT 2021, ISI Kolkata, 2021, pp. 237-248, DOI: 10.1007/978-981-19-3182-6 19.
- Dhruv Agrawal, Rohit Bansal, Terrance Frederick Fernandez, **Amit Kumar Tyagi**, "Blockchain Integrated Machine Learning for Training Autonomous Cars", 13-15 December 2021, In the proceeding of Springer/ HIS 2021 (Online), DOI: 10.1007/978-3-030-96305-7_4
- Anova Ajay Pandey, Terrance Frederick Fernandez, Rohit Banasal, Amit Kumar Tyagi, "Maintaining Scalability in Blockchain", 13-15 December 2021, in the proceeding of Springer, ISDA 2021, ISBN: 978-3-030-96308-8
- Isha Karn, **Amit Kumar Tyagi**, "Probabilistic Parsing Application and Broad Functioning", *16-18 December 2021*, in Proceeding of IEEE Xplore/ICEmTASS, India, 2021.
- Atharva D, Amit Kumar Tyagi, Uppalaguptapu Venkata E A, N Sreenath, "Blockchain for Cyber Security: A Comprehensive Review", 25-27 January 2022, in Proceeding of IEEE Xplore/ International Conference on Computer Communication and Informatic (ICCCI) 2022, Tamilnadu, India, 2022, DOI: 10.1109/ICCCI54379.2022.9740843
- Atharva D, Amit Kumar Tyagi, Shraddha J, N Sreenath, "Internet of Things Based Smart Environment: Threat Analysis, Open Issues, and a Way Forward to Future", 25-27 January 2022, in Proceeding of IEEE Xplore/ International Conference on Computer Communication and Informatic (ICCCI) 2022, Tamilnadu, India, 2022, DOI: 10.1109/ICCCI54379.2022.9740741.

- Timothy Thomas George, **Amit Kumar Tyagi**, "Reliable Edge Computing Architectures for Crowdsensing Applications", *25-27 January 2022*, *in Proceeding of IEEE Xplore*/ International Conference on Computer Communication and Informatic (ICCCI) 2022, *Tamilnadu*, *India*, *2022*, *DOI:* 10.1109/ICCCI54379.2022.9740791
- Amit Kumar Tyagi, Deepshikha Agarwal, N Sreenath, "SecVT: Securing the Vehicles of Tomorrow using Blockchain Technology", 25-27 January 2022, in Proceeding of IEEE Xplore/ International Conference on Computer Communication and Informatic (ICCCI) 2022, Tamilnadu, India, 2022, DOI: 10.1109/ICCCI54379.2022.9740965
- Vishnuram G, Khushboo Tripathi, Amit Kumar Tyagi, "Ethical Hacking: Importance, Controversies and Scope in the Future", 25-27 January 2022, in Proceeding of IEEE Xplore/ International Conference on Computer Communication and Informatic (ICCCI) 2022, Tamilnadu, India, 2022, DOI: 10.1109/ICCCI54379.2022.9740860
- Akshay Kumaran V, Amit Kumar Tyagi, S.Pradeep Kumar, "Blockchain Technology for Securing Internet of Vehicle: Issues and Challenges", 25-27 January 2022, in Proceeding of IEEE Xplore/ International Conference on Computer Communication and Informatic (ICCCI) 2022, Tamilnadu, India, 2022, DOI: 10.1109/ICCCI54379.2022.9740856.
- B. Santhanakrishnan, Amit Kumar Tyagi, Terrance Frederick Fernandez, "Blockchain Network based Decentralized Applications for Healthcare Sector", 25-27 January 2022, in Proceeding of IEEE Xplore/ International Conference on Computer Communication and Informatic (ICCCI) 2022, Tamilnadu, India, 2022, DOI: 10.1109/ICCCI54379.2022.9740743
- Amit Kumar Tyagi, "SecVT: Securing the Vehicles of Tomorrow using Blockchain technology", 17-19 February 2022, in the proceeding of Springer/ ISAI 2022, Kolkata, 2022.
- Hariket Sukesh Kumar Sheth, Amit Kumar Tyagi, "Deep Learning, Blockchain Based Multilayered Authentication and Security Architectures", 9-11 May 2022, in Proceeding of IEEE Xplore/ International Conference on Applied Artificial Intelligence and Computing (ICAAIC 2022), Salem, Tamilnadu, India, 2022, DOI: 10.1109/ICAAIC53929.2022.9793179.
- Amit Kumar Tyagi, Saravanan Chandrasekaran, N Sreenath, "Blockchain Technology A New Technology for Creating Distributed and Trusted Computing Environment", 9-11 May 2022, in Proceeding of IEEE Xplore/ International Conference on Applied Artificial Intelligence and Computing (ICAAIC 2022), Salem, Tamilnadu, India 2022, DOI: 10.1109/ICAAIC53929.2022.9793179.
- Advait Deochakke, **Amit Kumar Tyagi**, "Analysis of Ransomware Security on Cloud Storage Systems", 6-7 May 2022, in Proceeding of Springer/ International Conference on Advancements in Interdisciplinary Research (AIR-2022), MNIT Allahabad, Uttar Pradesh India, 2022.
- Kiranraaj S, **Amit Kumar Tyagi**, "Study of Data Behaviour and Methods for Data Prediction and Analysis", *May 25-27, 2022, in Proceeding of IEEE Xplore/ 6th International Conference on Intelligent Computing and Control Systems (ICICCS 2022), Tamilnadu, India, 2022, DOI: 10.1109/ICICCS53718.2022.9788360.*
- Atharva Deshmukh, Disha Patil, **Amit Kumar Tyagi**, Arumugam S, "Recent Trends on Blockchain for Internet of Things based Applications: Open Issues and Future Trends", *4-5 August 2022, in the proceeding of ACM conference, IC3S 2022, Noida*. https://doi.org/10.1145/3549206.3549289
- Meghna Manoj Nair, T Frederick, Amit Kumar Tyagi, "Preserving Privacy using Blockchain (DistributedLedger) Technology in Intelligent Transportation System", 4-5 August 2022, in the proceeding of ACM conference, IC3S 2022, Noida. https://doi.org/10.1145/3549206.3549306
- Shreyas Madhav A V, Ilavarasi A K, **Amit Kumar Tyagi**, "The Heroes and Villains of the Mix Zone: The Preservation and Leaking of User's Privacy in Future Vehicles" *11-13 August 2022*,

- in the proceeding of Springer conference, International Conference of Microelectronic Devices, Circuits, and Systems (ICMDCS 2022), VIT Vellore, Tamilnadu, India. DOI: 10.1007/978-3-031-23973-1 12
- Akshita Tyagi, T Frederick, K Sahanatha Kumari, Amit Kumar Tyagi, "A Survey on Text Processing Using Deep Learning Techniques", in the proceeding of Springer Conference/ISDA 2022, 12-15 December 2022. DOI: https://doi.org/10.1007/978-3-031-27440-4 19
- Amit Kumar Tyagi, Rohit Bansal, Anshu, Sathian D, "A Step-to-Step Guide to Write a Quality Research Article", in the proceeding of Springer conference, in the proceeding of Springer conference/ ISDA 2022, 12-15 December 2022. DOI: https://doi.org/10.1007/978-3-031-35510-3 36
- Sanskar Srivastava, Anshu, Rohit Bansal, Gulshan Soni, **Amit Kumar Tyagi**, "Blockchain Enabled Internet of Things: Current Scenario and Open Challenges for Future", 12-15 December 2022, *in the proceeding of Springer conference/ WICT 2022, 2022. DOI: https://doi.org/10.1007/978-3-031-27499-2 59*
- Aparna Mohan, Rabindra Kumar Singh, Amit Kumar Tyagi, "Analysis and Prediction of Apple's iPhone Sales and factors causing downfall using Machine Learning and Deep Convolutional Neural Network", 23-25 January 2023, in Proceeding of IEEE Xplore/ 13th International Conference on Computer Communication and Informatics (ICCCI 2023), Tamilnadu, India. DOI: 10.1109/ICCCI56745.2023.10128516
- Amit Kumar Tyagi, G Harika Sai, N Sreenath "Protecting Internet of Things Based System against Identity Theft Attacks using Biometric Security", 23-25 January 2023, in Proceeding of IEEE Xplore/ 13th International Conference on Computer Communication and Informatics (ICCCI 2023), Tamilnadu, India. DOI: 10.1109/ICCCI56745.2023.10128186
- Amit Kumar Tyagi, T Frederick, Meghna M Nair, "Cyberbullying in Digital Era: History, Trends, Limitations, Recommended Solutions for Future", 23-25 January 2023, in Proceeding of IEEE Xplore/ 13th International Conference on Computer Communication and Informatics (ICCCI 2023), Tamilnadu, India. DOI: 10.1109/ICCCI56745.2023.10128624
- Shreyas Madhav A V, A Mohan, **Amit Kumar Tyagi**, "IMPROVE: Intelligent Machine Learning basedPortable, Reliable and Optimal VErification System for Future Vehicles", 23-25 January 2023, in Proceeding of IEEE Xplore/ 13th International Conference on Computer Communication and Informatics (ICCCI 2023), Tamilnadu, India. DOI: 10.1109/ICCCI56745.2023.10128616
- Gomathi L, Anand Kumar Mishra, **Amit Kumar Tyagi**, "Industry 5.0 for Healthcare 5.0: Opportunities, Challenges and Future Research Possibilities", in Proceeding of IEEE Xplore/ICOEI 2023, Tamilnadu, India. DOI: 10.1109/ICOEI56765.2023.10125660
- Rekha G, Anand Kumar Mishra, **Amit Kumar Tyagi,** "An Improved Oversampling Algorithms based on Informative Sample Selection Strategy Solving Imbalance Classification Problems" in Proceeding of ACM/ IC3 Conference, 2023, Uttar Pradesh India. https://doi.org/10.1145/3607947.3607993
- Meghna Manoj Nair, Anand Kumar Mishra, Amit Kumar Tyagi, "Fog Computing and Edge Computing: Open Issues, Critical Challenges and the Road Ahead for Future", in Proceeding of ACM/IC3 Conference, 2023, Uttar Pradesh India. https://doi.org/10.1145/3607947.3607962
- Aparna B, Anand Kumar Mishra, **Amit Kumar Tyagi**, "Self-Driving Car Simulation using Reinforcement Learning and Xception Model Tuning", in Proceeding of ACM/IC3 Conference, 2023, Uttar Pradesh India. DOI: 10.1109/ICOSEC58147.2023.10276222
- Amit Kumar Tyagi, et al., Modern Education Post COVID 19: A Comparative Analysis, *in the proceeding of Springer conference*/ International Conference on Information Assurance and Security (*IAS*) 2023, online, USA.

- Amit Kumar Tyagi, et al., Spatial Computing: Opportunities and Challenges for the Next Decade, in the proceeding of Springer conference/ International Conference on Information Assurance and Security (IAS) 2023, online, USA.
- **Amit Kumar Tyagi**, et al., Emerging Era of AI based Chatbots: Is It really Required to Today Generation? *in the proceeding of Springer conference/ WICT 2023*.
- Amit Kumar Tyagi, et al., DNA Computing: Challenges and Opportunities for Future, *in the proceeding of Springer conference*/ International Conference on Intelligent Systems Design and Applications (*ISDA*), 2023, online, USA.
- Amit Kumar Tyagi, et al., Artificial Intelligence based Chatbots is Killing Creative Minds: An Effective Discussion on Modern Education, *in the proceeding of Springer conference/* International Conference on Intelligent Systems Design and Applications (*ISDA*),2023, online, *USA*.
- Amit Kumar Tyagi, et al., Chicken Swarm Algorithm with Deep Learning for Plant Leaf Disease Detection and Classification, *in the proceeding of Springer conference*/ International Conference on Intelligent Systems Design and Applications (*ISDA*), 2023, online, USA.
- Amit Kumar Tyagi, et al., Improved Wild Horse Optimizer with Deep Learning Model for Skin Lesion Detection and Classification on Dermoscopic Images, in the proceeding of Springer conference/ International Conference on Intelligent Systems Design and Applications (ISDA), 2023, online, USA.
- Amit Kumar Tyagi, et al., Comparative Analysis of Machine Learning Algorithms in Thyroid Disease Prediction, in the proceeding of Springer conference/ International Conference on Intelligent Systems Design and Applications (ISDA), 2023, online, USA.
- Amit Kumar Tyagi, Emerging Era of AI based Chatbots: Is It really Required to Today Generation? in the proceeding of Springer conference/ World Congress on Information and Communication Technologies (WICT), 2023, online, USA.
- Amit Kumar Tyagi, Akshita Tyagi, Text Sentiment Analysis Using Natural Language Processing, 23-25 January 2024, in Proceeding of IEEE Xplore/ 14th International Conference on Computer Communication and Informatics (ICCCI 2024), Tamilnadu, India.
- Amit Kumar Tyagi, Anand Kumar Mishra, Swetta Kukreja, Role of Artificial Intelligence enabled Internet of Things (IoT) in the Automobile Industry: Opportunities and Challenges for Society, in the proceeding of Springer, 5th International Conference on Computing, Communication and Cyber Security, 2024.
- Anand Kumar Mishra, Shrikant Tiwari and Kanchan Naithani, **Amit Kumar Tyagi**, Blockchain Security in Cloud Computing: Use Cases, Challenges, and Solutions, *in the proceeding of Springer*, 5th International Conference on Computing, Communication and Cyber Security, 2024.

Others Conferences (Non-Scopus)

- Lalit Sharma, Amit Kumar Tyagi, et al., "An Efficient Cyber-Physical Systems for Mobile Environments", February 2014, in proceeding of International Conference on Advanced Developments in Engineering and Technology (ICADET), ISSN 2250-2459 (Online), Volume 4, Special Issue 1, Ghaziabad, India, pp.203-208.
- Amit Kumar Tyagi, N.Sreenath, "Ensuring Trust and Privacy in Large Carpooling Problems", 19-20 October 2016, in proceeding of International Conference on Computational Intelligence and Communication (CIC), Volume 14. International Journal of Computer Science and Information Security (IJCSIS), Pondicherry, India, pp. 1-11, ISSN 1947-5500
- Amit Kumar Tyagi, N.Sreenath "Vehicular Ad Hoc Networks: New Challenges in Carpooling and Parking Services", in proceeding of International Conference on Computational Intelligence and Communication (CIC), Volume 14. International Journal of Computer Science

- and Information Security (IJCSIS), Pondicherry, India, pp. 13-24, ISSN 1947-5500
- Amit Kumar Tyagi, G.Rekha, "Machine Learning with Big Data", 26-28 February 2019, in proceeding of Elsevier/ International Conference on Sustainable Computing in Science, Technology and Management (SUSCOM), Amity University, Rajasthan, India, DOI: https://papers.ssrn.com/sol3/papers.cfm?abstract_id=3356269
- G.Rekha, Amit Kumar Tyagi, and V Krishna Reddy, "Performance Analysis of Under-Sampling and Over-Sampling Techniques for Solving Class Imbalance Problem", 26-28 February 2019, in proceeding of Elsevier/International Conference on Sustainable Computing in Science, Technology and Management (SUSCOM), Amity University, Rajasthan, India, DOI: https://dx.doi.org/10.2139/ssrn.3356374
- Amit Kumar Tyagi, M Shamila, "Spy in the Crowd: How User's Privacy Is Getting Affected with the Integration of Internet of Thing's Devices", in proceeding of Elsevier/ Proceedings of International Conference on Sustainable Computing in Science, Technology and Management (SUSCOM), Amity University Rajasthan, Jaipur India, February 26-28, 2019, DOI: https://dx.doi.org/10.2139/ssrn.3356268.
- Amit Kumar Tyagi, "Building a Smart and Sustainable Environment using Internet of Things", in proceeding of Elsevier/ Proceedings of International Conference on Sustainable Computing in Science, Technology and Management (SUSCOM), Amity University Rajasthan, Jaipur India, February 26-28, 2019, DOI: https://dx.doi.org/10.2139/ssrn.3356500

Chapters/ Lecture Notes

- Amit Kumar Tyagi, G. Rekha "Challenges of Applying Deep Learning in Real World's Applications", in Book Titled "Challenges and Applications for Implementing Machine Learning in Computer Vision", IGI Global USA, 2020, pp. 92-118, DOI: 10.4018/978-1-7998-0182-5, ISBN 13: 9781799801825.
- Amit Kumar Tyagi, Poonam Nandal "Artificial Intelligence and Machine Learning Algorithms", in Book Titled "Challenges and Applications for Implementing Machine Learning in Computer Vision", IGI Global USA, pp. 188-219, 2020, DOI: 10.4018/978-1-7998-0182-5, ISBN 13: 9781799801825.
- Amit Kumar Tyagi, "Prediction Models", in Book Titled "Handbook of Research on Disease Prediction through Data Analytics and Machine Learning", IGI Global USA, 2020, DOI: 10.4018/978-1-7998-2742-9, pp. 50-69, DOI: 10.4018/978-1-7998-2742-9.ch004, ISBN 13: 9781799827429.
- M.Shamila, Amit Kumar Tyagi, "Genetic Data Analysis", in Book Titled "Handbook of Research on Disease Prediction through Data Analytics and Machine Learning", IGI Global USA, 2020, DOI: 10.4018/978-1-7998-2742-9.ch017, pp. 358-372, ISBN 13: 9781799827429.
- Shaveta Malik, Archana Mire, **Amit Kumar Tyagi**, Arathi Boyanapalli, "Blockchain in Clinical Trials" in Book Titled "Opportunities and Challenges for Blockchain Technology in Autonomous Vehicles", IGI Global USA, 2020. DOI: 10.4018/978-1-7998-3295-9.ch015, ISBN13: 9781799832959.
- Varsha. R, Siddharth Nair, and **Amit Kumar Tyagi**, "Issues and Challenges (Privacy, Security, and Trust) in Blockchain based Applications" in Book Titled "Opportunities and Challenges for Blockchain Technology in Autonomous Vehicles", IGI Global USA, 2020, DOI: 10.4018/978-1-7998-3295-9.ch012, ISBN13: 9781799832959.
- Sathiya Narayanan Sekar, Nikshith Narayan Ramesh, Jani Anbarasi L, Benson Edwin Raj, Amit Kumar Tyagi, "Current Trends, Challenges and Future Prospects for Augmented Reality and Virtual Reality" in Book Titled "Multimedia and Sensory Input for Augmented, Mixed, and Virtual Reality", IGI Global USA, 2020, pp. 275-281, DOI: 10.4018/978-1-7998-4703-8.ch015,

- ISBN: 9781799847038.
- Amit Kumar Tyagi, G. Rekha, Sravanthi Reddy "Big Data and Behaviour Analytics", in Book Titled "IET Handbook of Big Data Analytics Book Series: IET Book Series on Big Data", pp. 127-143, DOI: 10.1049/PBPC037G ch6, ISBN: 9781839530593, 2021.
- Amit Kumar Tyagi, Meghna M Nair, "Deep Learning for Clinical and Health Informatics,", Computational Analysis and Understanding of Deep Learning for Medical Care: Principles, Methods, and Applications, pp. 107-129, 2021, https://doi.org/10.1002/9781119785750.ch5, ISBN: 9781119785729.
- Akshara Pramod, Harsh Sankar Naicker, and Amit Kumar Tyagi, "Machine Learning and Deep Learning: Open Issues and Future Research Directions for Next Ten Years", Computational Analysis and Understanding of Deep Learning for Medical Care: Principles, Methods, and Applications, pp. 463-490, 2021, https://doi.org/10.1002/9781119785750.ch18, ISBN: 9781119785729.
- Shruti S Kute, **Amit Kumar Tyagi,** Aswathy S U, "Industry 4.0 Challenges in e-Healthcare Applications and Emerging Technologies", in Book Titled Intelligent Interactive Multimedia Systems for e-Healthcare Applications, pp. 265-290, Springer 2021, ISBN: 978-981-16-6542-4, DOI: 10.1007/978-981-16-6542-4 14.
- Shruti S Kute, **Amit Kumar Tyagi**, Aswathy S U, "Security, Privacy and Trust Issues in Internet of Things and Machine Learning based e-Healthcare", in Book Titled Intelligent Interactive Multimedia Systems for e-Healthcare Applications, pp. 291-317, Springer 2021, ISBN: 978-981-16-6542-4, DOI: 10.1007/978-981-16-6542-4 15.
- Ishani Tibrewal, Manas Srivastava, **Amit Kumar Tyagi**, "Blockchain Technology for Securing Cyber Infrastructure and Internet of Things Networks", in Book Titled Intelligent Interactive Multimedia Systems for e-Healthcare Applications, pp. 337-350, Springer 2021, ISBN: 978-981-16-6542-4, DOI: 10.1007/978-981-16-6542-4_17.
- Shreyas Madhav A V, **Amit Kumar Tyagi**, "The World with Future Technologies (Post COVID 19): Open Issues, Challenges and the Road Ahead", in Book Titled Intelligent Interactive Multimedia Systems for e-Healthcare Applications, pp. 411-452, Springer 2021, ISBN: 978-981-16-6542-4. DOI: 10.1007/978-981-16-6542-4 22.
- Shruti S Kute, **Amit Kumar Tyagi**, Rohit Sahoo, Shaveta Malik, "Building a Smart Healthcare System using Internet of Things and Machine Learning", in Book Gravitating Nano-sensory Drift towards Deep Learning Analysis, Modeling and Research, pp. 159-178, River Publications, ISBN: 9788770224154 (Print), 2021.
- Shruti S Kute, **Amit Kumar Tyagi**, Meghna Manoj Nair, "Research Issues and Future Research Directions towards Smart Healthcare using Internet of Things and Machine Learning", in Book Gravitating Nano-sensory Drift towards Deep Learning Analysis, Modeling and Research, pp. 179-200, River Publications, ISBN: 9788770224154 (Print), 2021.
- Amit Kumar Tyagi, "Analysis of Security and Privacy Aspects of Blockchain Technologies from Smart Era' Perspective: The Challenges and a Way Forward", in Book Titled CRC Recent Trends in Blockchain for Information Systems Security and Privacy, pp. 1-17, 2021, DOI: https://doi.org/10.1201/9781003139737, eBook-ISBN: 9781003139737.
- Shabnam Kumari, **Amit Kumar Tyagi**, G Rekha, "Applications of Blockchain Technologies in Digital Forensic and Threat Hunting", in Book Titled CRC Recent Trends in Blockchain for Information Systems Security and Privacy, pp. 1-15, 2021, eBook-ISBN: 9781003139737.
- Amit Kumar Tyagi, Meenu Gupta, Aswathy SU, Chetanya Ved, "Healthcare Solutions for Smart Era: An Useful Explanation from User's Perspective", in Book Titled CRC Recent Trends in Blockchain for Information Systems Security and Privacy, pp. 1-43, 2021, eBook-ISBN: 9781003139737.

- Shabnam Kumari, **Amit Kumar Tyagi**, Aswathy S U, "The Future of Edge Computing with Blockchain Technology: Possibility of Threats, Opportunities and Challenges", in Book Titled CRC Recent Trends in Blockchain for Information Systems Security and Privacy, pp. 1-32, 2021, DOI: https://doi.org/10.1201/9781003139737, eBook-ISBN: 9781003139737.
- Shashvi Mishra, **Amit Kumar Tyagi**, "The Role of Machine Learning Techniques in Internet of Things Based Cloud Applications", in Book Titled "Artificial Intelligence for Internet of Things", pp. 105-135, Springer, 2022, DOI: 10.1007/978-3-030-87059-1_4, ISBN: 978-3-030-87059-1.
- Shaveta Malik, **Amit Kumar Tyagi**, Sameer Mahajan, "Architecture, Generative Model, and Deep Reinforcement Learning for IoT Applications: Deep Learning Perspective", in Book Titled "Artificial Intelligence for Internet of Things", pp. 243-265, Springer, 2022, DOI: 10.1007/978-3-030-87059-1 9, ISBN: 978-3-030-87059-1.
- Shruti S Kute, **Amit Kumar Tyagi**, Aswathy S.U, Shaveta Malik "Machine Learning and Internet of Things based Models for Healthcare Monitoring", in Book Titled Advanced Analytics and Deep Learning Models, pp. 111-125, Wiley Scrivener, 2022, DOI: https://doi.org/10.1002/9781119792437.ch5, ISBN: 9781119791751.
- Akshara Pramod, Harsh Sankar Naicker, and **Amit Kumar Tyagi**, "Emerging Innovations in Near Future Using Deep Learning Techniques", in Book Titled Advanced Analytics and Deep Learning Models, pp. 231-254, Wiley Scrivener, 2022, DOI: https://doi.org/10.1002/9781119792437.ch10, ISBN: 9781119791751.
- Deepti Goyal, Amit Kumar Tyagi, Aswathy S U "Big Data Analytics with Cloud, Fog and Edge Computing", in Book Titled Advanced Analytics and Deep Learning Models, pp. 325-349, Wiley Scrivener, 2022, DOI: https://doi.org/10.1002/9781119792437.ch14, ISBN: 9781119791751.
- Varsha. R, Siddharth M Nair, Amit Kumar Tyagi, "The Fog/ Edge Computing: Challenges, Serious Concerns and the Road Ahead", in Book Titled Advanced Analytics and Deep Learning Models, pp. 365-389, Wiley Scrivener, 2022, DOI: https://doi.org/10.1002/9781119792437.ch16, ISBN: 9781119791751.
- Shashvi Mishra, **Amit Kumar Tyagi**, "Emerging Trends and Techniques in Machine Learning and Cloud-Based Applications", in Book Titled Handbook of Research of Internet of Things and Cyber-Physical Systems An Integrative Approach to an Interconnected Future, pp. 1-19, AAP Press, 2022, ISBN: 9781003277323.
- Sakshi Purwar, **Amit Kumar Tyagi**, "Recent Advancement in Deep Learning: Open Issues, Challenges and A Way to Forward", in Book Titled CRC Recurrent Neural Networks: Concepts and Applications, pp. 1-12, 2022, ISBN: 9781003307822
- Aswathy S U, **Amit Kumar Tyagi**, "Privacy Breaches through Cyber Vulnerabilities: Critical Issues, Open Challenges and Possible Countermeasures for Future" in Book Titled: CRC SPWR, CRC Press 2022, ISBN: 9781003156406
- Varsha J, **Amit Kumar Tyagi**, "Security Optimization of Resource-Constrained Internet of Healthcare Things (IoHT) Devices Using Lightweight Cryptography", in Book title: Information Security Practices for the Internet of Things, 5G, and Next-Generation Wireless Networks, pp. 179-209, IGI Global, 2022, DOI: 10.4018/978-1-6684-3921-0.ch009, ISBN: 9781668439210.
- Vaishnavi S, Atharva D, **Amit Kumar Tyagi**, "Role of Artificial Intelligence in Cyber Security-A Useful Overview", in Book title: Information Security Practices for the Internet of Things, 5G, and Next-Generation Wireless Networks, pp. 92-104, IGI Global, 2022, DOI: 10.4018/978-1-6684-3921-0.ch005, ISBN: 9781668439210.
- M Shamila, **Amit Kumar Tyagi**, Aswathy S U, "Genomics and Genetic Data: A Third Eye for Doctors", in Book Titled Intelligent Interactive Multimedia Systems for e-Healthcare

- Applications, AAP Press, 2022, ISBN: 9781774910221.
- Amit Kumar Tyagi, S. U. Aswathy, and Shaveta Malik, Bio-Medical Data Analysis: Current Status and Future Trends, in Book Titled Intelligent Interactive Multimedia Systems for e-Healthcare Applications, AAP Press, 2022, ISBN: 9781774910221.
- R. Varsha, Siddharth, Manoj Manoj Nair, Amit Kumar Tyagi, and S. U. Aswathy, Internet of Things-Based Cloud Applications: Open Issues, Challenges, and Future Research Directions, in Book – Titled Intelligent Interactive Multimedia Systems for e-Healthcare Applications, AAP Press, 2022, ISBN: 9781774910221.
- Shaveta Malik, **Amit Kumar Tyagi**, Rohit Sahoo, "Machine Learning algorithms for Big Data Analytics including Deep Learning", in Book—Titled: Machine Learning, Blockchain Technologies and Big Data Analytics for IoTs: Methods, Technologies and Applications IET, 2022. DOI: 10.1049/PBSE016E ch4, ISBN: 9781839533396
- Micheal Olaolu Arowolo, Moses Kazeem Abiodun, Samuel Olawepo, Bukola Fatimah Balogun, and Amit Kumar Tyagi, "An Integrated Dimensionality Reduction Model for Classifying IoT Enabled Smart Healthcare Data Analysis", in Book Titled: Machine Learning, Blockchain Technologies and Big Data Analytics for IoTs: Methods, Technologies and Applications IET, 2022. DOI: 10.1049/PBSE016E ch18, ISBN: 9781839533396.
- Roshni Nawaz, Amit Kumar Tyagi, M Shamila, "Vulnerabilities of Smart Contracts and Solutions", in Book—Titled: Machine Learning, Blockchain Technologies and Big Data Analytics for IoTs: Methods, Technologies and Applications IET, 2022. DOI: 10.1049/PBSE016E_ch12
- Sanskar Srivastava, Amit Kumar Tyagi, Sajidha S A, "Artificial Intelligence in Healthcare: Current Situation and Future Possibilities", Elsevier, in Book – Titled: Medial based Internet of Things (MIoTs) Elsevier 2022. DOI: https://doi.org/10.1016/B978-0-323-99421-7.00015-5.
- Deekshetha H R, Amit Kumar Tyagi, "Automated and Intelligent Systems for Smart Applications", in Book—Titled: Data Science for Genomics, Elsevier, 2022, pp. 265-276, https://doi.org/10.1016/B978-0-323-98352-5.00019-7
- Shamila. M, K. Vinuthna, **Amit Kumar Tyagi**, "Genomic Privacy: Performance Analysis, Open Issues and Future Research Directions", in the book: Data Science for Genomics, Elsevier, 2022, pp. 249-263. https://doi.org/10.1016/B978-0-323-98352-5.00015-X
- Micheal O A, Eric A, Eniola M, Marion A, Amit Kumar Tyagi, et al., A predictive model for classifying colorectal cancer using principal component analysis, in book titled: Data Science for Genomics, Elsevier 2022, pp. 205-216, https://doi.org/10.1016/B978-0-323-98352-5.00004-5
- Gokul H, Atharva D, Shraddha Jathar, Amit Kumar Tyagi, "A Case Study on Remote Medical Monitoring with AWS Cloud and IoT", in Book Titled: Computational Intelligence in Healthcare: Applications, Challenges, and Management, Taylor & Francis, CRC Press, 2023. ISBN: 9781003305347. DOI: 10.1201/9781003305347-12.
- Marion Olubunmi Adebiyi, Jesutofunmi Onaope Afolayan, Micheal Olaolu Arowolo, Amit Kumar Tyagi, Ayodele Ariyo Adebiyi, "Breast Cancer Detection Using a PSO-ANN Machine Learning Technique", in Book Titled: Using MultimediaSystems, Tools, and Technologies for Smart Healthcare Services, IGI Global 2022. DOI: 10.4018/978-1-6684-5741-2.ch007, ISBN: 9781668457412
- Udochukwu Iheanacho Erondu, Emmanuel Oluwatobi Asani, Michael Olaolu Arowolo, Amit Kumar Tyagi, Nehemiah Adebayo, "An Encryption and Decryption Model for Data Security Using Vigenere with AES", in Book Titled: Using Multimedia Systems, Tools, and Technologies for Smart Healthcare Services, IGI Global 2022. DOI: 10.4018/978-1-6684-5741-2.ch009, ISBN: 9781668457412
- Sanjana Chelat Menon, Umayal V. R., Gulshan Soni, Aymaan Baig, **Amit Kumar Tyagi**, "A Visual Framework for an IoT-Based Healthcare System Based on Cloud Computing", in Book –

- Titled: Using Multimedia Systems, Tools, and Technologies for Smart Healthcare Services, IGI Global 2022. DOI: 10.4018/978-1-6684-5741-2.ch006, ISBN: 9781668457412.
- Dhriti Rajani, Sanjana Chelat Menon, Shruti Kute, Amit Kumar Tyagi, "Preserving Privacy of Social Media Data Using Artificial Intelligence Techniques", in Book Titled: Handbook of Research on Technical, Privacy, and Security Challenges in a Modern World, IGI Global 2022, DOI: 10.4018/978-1-6684-5250-9.ch010, ISBN13: 9781668452509.
- Micheal O A, Happiness Eric A, Eniola P M, Marian O A, Amit Kumar Tyagi, et al., "Development of a predictive model for classifying colorectal cancer using principal component analysis", in book titled: Deep Learning in Personalized Healthcare and Decision Support, Elsevier, 2023. DOI: https://doi.org/10.1016/B978-0-443-19413-9.00019-9, ISBN: 9780443194139.
- Atharva D, **Amit Kumar Tyagi**, Sangita K, "Heart Disease Prediction using ML Algorithm", in book titled: The Internet of Medical Things (IoMT) and Telemedicine Frameworks and Applications, IGI Global, 2022. DOI: 10.4018/978-1-6684-3533-5.ch008, ISBN: 9781668435335.
- Atharva D, **Amit Kumar Tyagi**, "Application of Distributed Ledger (Blockchain) Technology in E-healthcare", in book titled: The Internet of Medical Things (IoMT) and Telemedicine Frameworks and Applications, IGI Global, 2022. DOI: 10.4018/978-1-6684-3533-5.ch013, ISBN: 9781668435335.
- Gomathi L, **Amit Kumar Tyagi**, "Detection and Diagnosis of COVID-19 from chest x-ray images using Deep Learning", in Book titled: Artificial Intelligence of Health-Enabled Spaces, CRC Press, 2023. DOI: 10.1201/9781003322887-2.
- **Amit Kumar Tyagi**, "Decentralized Everything: A Practical Use of Blockchain Technology in Future Applications", in the Book titled Distributed Computing to Blockchain: Architecture, Technology, and Applications, Elsevier 2023, pp. 19-38, https://doi.org/10.1016/B978-0-323-96146-2.00010-3, ISBN: 978-0-323-96146-2.
- Meghna Manoj Nair, Amit Kumar Tyagi, "AI, IoT, Blockchain, and Cloud Computing: The Necessity of Future", in Book titled Distributed Computing to Blockchain: Architecture, Technology, and Applications, Elsevier 2023, pp. 189-206, https://doi.org/10.1016/B978-0-323-96146-2.00001-2, ISBN: 978-0-323-96146-2.
- Atharva Deshmukh, Disha S Patil, Gulshan Soni, **Amit Kumar Tyagi**, "Cyber Security: New Realities for Industry 4.0 and Society 5.0" in Book Titled: Handbook of Research on Quantum Computing for SmartEnvironments, IGI Global, 2023, pp. 299-325, DOI: 10.4018/978-1-6684-6697-1.ch017, ISBN: 9781668466971.
- Susindhar Arumugapriya Venkatesan, Gulshan Soni, **Amit Kumar Tyagi**, "A Review on Recent Trends in Quantum Computation Technology", in Book Titled: Handbook of Research on Quantum Computing for Smart Environments, IGI Global, 2023. DOI: 10.4018/978-1-6684-6697-1.ch003, ISBN: 9781668466971.
- Sasi Preetham, Gulshan Soni, Amit Kumar Tyagi, Vijayalakshmi K, Shyam Mohan J S, Rabindra Kumar Singh "Quantum Computing and the Qubit: The Future of ArtificialIntelligence", in Book

 Titled: Quantum Computing: A Shift from Bits to Qubits, Handbook of Research on Quantum Computing for Smart Environments, IGI Global, 2023, DOI: 10.4018/978-1-6684-6697-1.ch013. ISBN: 9781668466971.
- Dorothy Blessing Agboola, Micheal Olaolu Arowolo, Amit Kumar Tyagi, "A Review on Quantum Deep Machine Learning Model for Predicting Rice Husk Ash Compressive Strength", in Book – Titled: Quantum Computing: A Shift from Bits to Qubits, Handbook of Research on Quantum Computing for Smart Environments, IGI Global, 2023, DOI: 10.4018/978-1-6684-6697-1.ch006, ISBN: 9781668466971.

- Atharva Deshmukh, Hariket Sukesh Kumar Sheth, Pratap Dnyandeo Pawar, Amit Kumar Tyagi, "A Survey on Blockchain and Cryptocurrency-Based Systems" in the book: Handbook of Research on Blockchain Technology and the Digitalization of the Supply Chain, IGI GLOBAL 2023, DOI: 10.4018/978-1-6684-7455-6.ch018, ISBN: 9781668474556.
- Sai Dhakshan Y, **Amit Kumar Tyagi**, "Introduction to Smart Healthcare: Healthcare Digitization, In the book: 6G-Enabled IoT and AI for Smart Healthcare: Challenges, Impacts, and Analysis", CRC Press, 2023. https://doi.org/10.1201/9781003321668 ebook ISBN: 9781003321668.
- Raghav D, Arjun Tandon, **Amit Kumar Tyagi**, "Emerging Internet of Things (IoTs) Scenarios using Machine Learning for 6G over 5G based Communications", In the book: 6G-Enabled IoT and AI for Smart Healthcare: Challenges, Impacts, and Analysis, CRC Press, 2023. DOI: 10.1201/9781003321668-12 ebook ISBN: 9781003321668.
- Meghna Manoj Nair, **Amit Kumar Tyagi**, "6G: Technology, Advancement, Barriers and the Future, In the book: 6G-Enabled IoT and AI for Smart Healthcare: Challenges, Impacts, and Analysis", CRC Press, 2023. DOI: 10.1201/9781003321668-13, ebook ISBN: 9781003321668.
- Meghna Manoj Nair, Amit Kumar Tyagi, "Blockchain Technology for Next Generation Society: Current Trends and Future Opportunities for Smart Era", in the book: Blockchain Technology for Secure Social Media Computing, IET Book, 2023. DOI: 10.1049/PBSE019E ch11
- Pratham Jaiswal, Amit Kumar Tyagi, "Security and Privacy of Blockchain-based Robotics System", in Book – Titled: - Robotic Process Automation – An Intelligent Business Computational System, Wiley Scrivener, 2023. DOI: 10.1002/9781394166954.ch17
- Yash Aryaman, **Amit Kumar Tyagi**, "Impact of Artificial Intelligence on Medical Science Post COVID- 19 Pandemic", in Book Titled: Robotic Process Automation An Intelligent Business Computational System, Wiley Scrivener, 2023. https://doi.org/10.1002/9781394166954.ch13
- R Harish, Sanjana Menon, **Amit Kumar Tyagi**, "The Role of Artificial Intelligence, Blockchain and Internet of Things in Next Generation Machine based Communication", in Book Titled: Robotic Process Automation An Intelligent Business Computational System, Wiley Scrivener, 2023. https://doi.org/10.1002/9781394166954.ch15
- Shishir Shrivastava, **Amit Kumar Tyagi**, "Revolutionizing Modern Technology with WEB 3.0", in Book Titled: Robotic Process Automation An Intelligent Business Computational System, Wiley Scrivener, 2023. https://doi.org/10.1002/9781394166954.ch14
- Shashank Sharma, **Amit Kumar Tyagi**, "Robots, "Cyborgs and Modern Society: Future of the Society 5.0", in Book Titled: Robotic Process Automation An Intelligent Business Computational System, Wiley Scrivener, 2023. https://doi.org/10.1002/9781394166954.ch16
- B. Abhishek, D Sathian, Amit Kumar Tyagi, Deepshikha Agarwal, "An Overview of Quantum Computing based Hidden Markov Models" in Book Titled: Methodologies and Application of Quantum Computing in Cyber Terrorism and Security Framework, Wiley Scrivener 2023. https://doi.org/10.1002/9781394167401.ch6
- Nirav Bhatt, **Amit Kumar Tyagi**, "Cyber Forensics and Cyber Security: Threat Analysis, Research Statement and the Opportunities for Future" in Book Titled: Methodologies and Application of Quantum Computing in Cyber Terrorism and Security Framework, Wiley Scrivener 2023. https://doi.org/10.1002/9781394167401.ch13
- Tejashwa Agarwal, **Amit Kumar Tyagi**, "Artificial Intelligence and Qubit based Operating Systems: Current Progress and Future Perspectives" in Book Titled: Methodologies and Application of Quantum Computing in Cyber Terrorism and Security Framework, Wiley Scrivener 2023. https://doi.org/10.1002/9781394167401.ch7
- Atharva Deshmukh, Disha Patil, **Amit Kumar Tyagi**, "Transforming Next Generation based Artificial Intelligence for Software Development: Current Status, Issues, Challenges and Future

- Research Opportunities", IGI Global, 2023. DOI: 10.4018/978-1-6684-8088-5.ch003
- Meghna Manoj Nair, Atharva Deshmukh, Amit Kumar Tyagi "Artificial Intelligence for Cyber Security: Current Trends and Future Challenges", in the book: Automated Secure Computing for Next-Generation Systems, Wiley Scrivener, 2023. DOI: 10.1002/9781394213948.ch5
- Arjun Tandon, Raghav D, Anand Kumar Mishra, G Balamurugan, **Amit Kumar Tyagi,** "Decision and Recommendation System Services for Patient using Artificial Intelligence, in the book: Privacy Preservation of Genomic and Medical Data, Wiley Scrivener, 2023. https://doi.org/10.1002/9781394213726.ch10
- Amit Kumar Tyagi, R. Lakshmi Priya, Anand Kumar Mishra, G Balamurugan, "Industry 5.0: Potentials, Issues, Opportunities and Challenges for Society 5.0", in the book: Privacy Preservation of Genomic and Medical Data, Wiley Scrivener, 2023. https://doi.org/10.1002/9781394213726.ch17
- Atharva D, Anand Kumar Mishra, G Balamurugan, **Amit Kumar Tyagi**, "Blockchain Empowered Decentralized Applications: Current Trends and Challenges", in the book: Privacy Preservation of Genomic and Medical Data, Wiley Scrivener, 2023. https://doi.org/10.1002/9781394213726.ch19
- Aman Kumar Mishra, **Amit Kumar Tyagi**, Sathian D "Revolutionizing Government Operations: The Impact of Artificial Intelligence in Public Administration", in the book: Conversational AI, Wiley Scrivener, 2024. https://doi.org/10.1002/9781394200801.ch34
- S. A. Sajidha, Aakif Mairaj, Amit Kumar Tyagi, A. Vijayalakshmi, V. M. Nisha, Siddharth Nair, C.K.M. Ganesan, Ram Gunasekaran, Hitarth Menon, Counterfeit Pharmaceutical Drug Identification, in the book: Conversational AI, Wiley Scrivener, 2024. https://doi.org/10.1002/9781394200801.ch17
- Anand Kumar Mishra, V.Hemamalini, Amit Kumar Tyagi, "Digital Forensics with Emerging Technologies: Vision, and Research Potential for Future", in the book: Conversational AI, Wiley Scrivener, 2024. https://doi.org/10.1002/9781394200801.ch37
- Mohanaprabhu D, Monish Kanna S P, Jayasuriya J, Dr. Lakshmanaprakash S, Abirami A, Amit Kumar Tyagi, "Quantum Computation, Quantum Information and Quantum Key Distribution", in the book: Automated Secure Computing for Next-Generation Systems, Wiley Scrivener, 2023. https://doi.org/10.1002/9781394213948.ch17
- Amit Kumar Tyagi, Anand Kumar Mishra, Aswathy S U, Vijayalakshmi Kakulapati, "Quantum Computing, Qubits with Artificial Intelligence and Blockchain Technologies: A Roadmap for Future", in the book: Automated Secure Computing for Next-Generation Systems, Wiley Scrivener, 2023. https://doi.org/10.1002/9781394213948.ch18
- Harini S, Dharshini R, Praveen R, Abirami A, Lakshmanaprakash S, **Amit Kumar Tyagi**, "Qubits, Quantum Bits, and Quantum Computing: The Future of Computer Security System", in the book: Automated Secure Computing for Next-Generation Systems, Wiley Scrivener, 2023. https://doi.org/10.1002/9781394213948.ch19
- Nalla Vedavathi, Anand Kumar Mishra, Amit Kumar Tyagi, Vijayalakshmi Kakulapati, Sajidha S A "Futuristic Technologies for Smart Manufacturing: Research Statement and Vision for Future", in the book: Automated Secure Computing for Next-Generation Systems, Wiley Scrivener, 2023. https://doi.org/10.1002/9781394213948.ch21
- Anand Kumar Mishra, V.Hemamalini, **Amit Kumar Tyagi**, Piyali Saha, Abirami A "A Novel and Efficient Approach to Detect Vehicle Insurance Claims Fraud Using Machine Learning Techniques" in the book: Automated Secure Computing for Next-Generation Systems, Wiley Scrivener, 2023. https://doi.org/10.1002/9781394213948.ch8
- Kalyani G, Aannd Kumar Mishra, Diya Harish, **Amit Kumar Tyagi**, Sajidha S A, Shashank Pandey, Detection of Bank Fraud Using Machine Learning Techniques, in the book: Automated Secure Computing for Next-Generation Systems, Wiley Scrivener, 2023.

- https://doi.org/10.1002/9781394213948.ch12
- V.Hemamalini, Anand Kumar Mishra, Amit Kumar Tyagi, Vijayalakshmi Kakulapati "Artificial Intelligence Blockchain Enabled- Internet of Things based Cloud Applications for Next Generation Society", in the book: Automated Secure Computing for Next-Generation Systems, Wiley Scrivener, 2023. https://doi.org/10.1002/9781394213948.ch4
- Amit Kumar Tyagi, Richa, "Smart Manufacturing using Internet of Things, Artificial Intelligence and Digital Twin Technology", in the book: Global Perspectives on Robotics and Autonomous Systems: Development and Applications, IGI Global, 2023. DOI: 10.4018/978-1-6684-7791-5.ch008
- Atharva Deshmukh, Hariket Sukesh Kumar, Pratap Pawar, Amit Kumar Tyagi, "A Survey on Blockchain and Cryptocurrency based Systems", in the book: Handbook of Research on Blockchain Technology and the Digitalization of the Supply Chain, IGI Global USA 2023. DOI: DOI: 10.4018/978-1-6684-7455-6.ch018
- Amit Kumar Tyagi, Senthil A "Gamification for Industry 5.0 at the Core of Society 5.0", in the book: Concepts, Technologies, Challenges, and the Future of Web 3, IGI Global USA, 2023. DOI: 10.4018/978-1-6684-9919-1.ch016
- A Abirami, Kousik Barik, Lakshmanaprakash, **Amit Kumar Tyagi**, "Crime Prediction System using Machine Learning based Algorithms", in the book: Conversational AI, Wiley Scrivener, 2024
- Senthil A, Asi Vasu Deva Reddy **Amit Kumar Tyagi**, "Big Data, Artificial Intelligence, and Machine Learning Support for E-Learning Frameworks", in the book: Architecture and Technological Advancements of Education 4.0, IGI Global USA, 2024. DOI: 10.4018/978-1-6684-9285-7.ch011
- Jui P, Amit Kumar Tyagi, "Introduction to Architecture and Technological Advancements of Education 4.0 in the 21st Century", in the book: Architecture and Technological Advancements of Education 4.0, IGI Global USA, 2024. DOI: 10.4018/978-1-6684-9285-7.ch005
- Senthil A, Shaikh S, **Amit Kumar Tyagi**, "Future Research Directions for Effective E-Learning", in the book: Architecture and Technological Advancements of Education 4.0, IGI Global USA 2024. DOI: 10.4018/978-1-6684-9285-7.ch004
- Shrikant Tiwari, R Ravinader Reddy, **Amit Kumar Tyagi**, "Position of Blockchain Internet of Things Based Education 4.0 in Industry 5.0: A Discussion of Issues and Challenges", in the book: Architecture and Technological Advancements of Education 4.0, IGI Global USA 2024. DOI: 10.4018/978-1-6684-9285-7.ch013
- Sai Dakshan, Amit Kumar Tyagi, G Balamurugan, Shyam Mohan J S "Role of Emerging Technologies in Education 4.0: Challenges and Future Research Directions", in the book: Architecture and Technological Advancements of Education 4.0, IGI Global, USA, 2024. DOI: 10.4018/978-1-6684-9285-7.ch006
- Amit Kumar Tyagi, V Hemamalini, Gulshan Soni, "Digital Health Communication with Artificial Intelligence based Cyber Security", in the book: AI-Based Digital Health Communication for Securing Assistive Systems, IGI Global USA 2023. DOI: 10.4018/978-1-6684-8938-3.ch009
- Amit Kumar Tyagi, Timothy Thomas George, Gulshan Soni "Blockchain-based Cybersecurity in Internet of Medical Things (IoMT) based Assistive System", in the book: AI-Based Digital Health Communication for Securing Assistive Systems, IGI Global USA 2023. DOI: 10.4018/978-1-6684-8938-3.ch002
- Prabhu Shankar, K Deeba, **Amit Kumar Tyagi**, "Machine Learning based Big Data Analytics for IoT enabled Smart Healthcare Systems", in the book: AI-Based Digital Health Communication for Securing Assistive Systems, IGI Global USA 2023. DOI: 10.4018/978-1-6684-8938-3.ch004
- G Balamurugan, Amit Kumar Tyagi, Richa "A Survey on Privacy Preserving and Trust Building

- Techniques of Blockchain Based Systems", in the book: Privacy Preservation and Secured Data Storage in Cloud Computing, IGI Global 2023. DOI: 10.4018/979-8-3693-0593-5.ch019
- Amit Kumar Tyagi, Richa, "Smart Manufacturing using Internet of Things, Artificial Intelligence and Digital Twin Technology", in the book: Global Perspectives on Robotics and Autonomous Systems IGI Global 2023. DOI: 10.4018/978-1-6684-7791-5.ch008
- Amit Kumar Tyagi, "A Survey on Blockchain-Internet of Things Based Solutions", in the book: Privacy Preservation and Secured Data Storage in Cloud Computing, IGI Global 2023. DOI: 10.4018/979-8-3693-0593-5.ch005
- Amit Kumar Tyagi, VLN Simhan, Shrikant Tiwari, "Blockchain Security in Edge Computing: Use Cases, Challenges, and Solutions", in the book: Emerging Technologies and Security in Cloud Computing, IGI Global USA 2024. DOI: 10.4018/979-8-3693-2081-5.ch005
- Amit Kumar Tyagi, Meghna Manoj Nair, Khushboo Tripathi, "Security, Privacy, and Technical Challenges in a Blockchain-Internet of Things-Based Environment", in the book: Emerging Technologies and Security in Cloud Computing, IGI Global USA 2024. DOI: 10.4018/979-8-3693-2081-5.ch014
- Richa, **Amit Kumar Tyagi**, Senthil A, "Imagining the Sustainable Future with Industry 6.0: A Smarter Pathway for Modern Society and Manufacturing Industries", in the book: Machine Learning Algorithms Using Scikit and TensorFlow Environments, IGI Global USA 2024. DOI: 10.4018/978-1-6684-8531-6.ch016
- Amit Kumar Tyagi, "Dew Computing: State of the Art, Opportunities, and Research Challenges", in the book: Machine Learning Algorithms Using Scikit and TensorFlow Environments, IGI Global USA 2024. DOI: 10.4018/978-1-6684-8531-6.ch017
- Amit Kumar Tyagi, Shrikant Tiwari, "Future of Artificial Intelligence in Blockchain Applications", in the book: Machine Learning Algorithms Using Scikit and TensorFlow Environments, IGI Global USA 2024. DOI: 10.4018/978-1-6684-8531-6.ch018
- Amit Kumar Tyagi, "Transformative Effects of ChatGPT on Modern Era of Education and Society: From Society and Industry's Perspective", in the book: Machine Learning Algorithms Using Scikit and TensorFlow Environments, IGI Global USA 2024. DOI: 10.4018/978-1-6684-8531-6.ch019
- **Shrikant T**, Chidambaram N, **Amit Kumar Tyagi**, "Need of 21st Century: A Sustainable Environment Together a Smart Environment", in the book: Operational Research for Renewable Energy and Sustainable Environments, IGI Global, USA, 2024. DOI: 10.4018/978-1-6684-9130-0.ch009
- J Kavitha, Shabnam Kumari, K. Manivannan, Amit Kumar Tyagi, "The Role of Data Visualization and Big data Analytics in Smart Agriculture, in the book: AI Applications for Business, Medical, and Agricultural Sustainability, IGI Global, 2024. DOI: DOI: 10.4018/979-8-3693-5266-3.ch007.
- M Supriya, **Amit Kumar Tyagi**, Shrikant T, Richa "Sensor Based Intelligent Recommender Systems for Agricultural Activities", in the book: AI Applications for Business, Medical, and Agricultural Sustainability, IGI Global USA, 2024. DOI: 10.4018/979-8-3693-5266-3.ch008
- K.Shashidhar Reddy, Sayed Sayeed Ahmad, **Amit Kumar Tyagi**, "AI IoT enabled Smart Agriculture for Modern Era", in the book: AI Applications for Business, Medical, and Agricultural Sustainability, IGI Global USA 2024. DOI: 10.4018/979-8-3693-5266-3.ch004
- M Pradeep, Amit Kumar Tyagi, "Smart Sensors based Smart Agriculture for Better Crop Production in this Smart era", in the book: AI Applications for Business, Medical, and Agricultural Sustainability, 2024. DOI: 10.4018/979-8-3693-5266-3.ch009
- V. Hemamalini, Firas Armosh, **Amit Kumar Tyagi**, "Digital Twin based smart healthcare services for Next generation society", in the book: Future of AI in Medical Imaging, IGI Global, USA, 2024. DOI: 10.4018/979-8-3693-2359-5.ch015.

- Shabnam Kumari, **Amit Kumar Tyagi**, Avinash Sharma, "Emerging, Assistive, and Digital Technology in Telemedicine System", in the book: Future of AI in Medical Imaging, IGI Global, USA, 2024. DOI: 10.4018/979-8-3693-2359-5.ch012.
- V. Hemamalini, **Amit Kumar Tyagi**, A. Rajivkannan, "Blockchain based Intelligent, Interactive Healthcare Systems", in the book: Future of AI in Medical Imaging, IGI Global, USA, 2024. DOI: 10.4018/979-8-3693-2359-5.ch007.
- Amit Kumar Tyagi, Shabnam Kumari, Shrikant Tiwari, "Internet of Things for Smart Healthcare A Survey", in the book: Future of AI in Medical Imaging, IGI Global, USA, 2024. DOI: 10.4018/979-8-3693-2359-5.ch002.
- Anand Kumar Mishra, **Amit Kumar Tyagi**, Richa, Subhra Rani Patra, "Introduction to Machine Learning and Artificial Intelligence in Banking and Finance", in the book: Applications of Block Chain technology and Artificial Intelligence, Springer 2024. https://doi.org/10.1007/978-3-031-47324-1 14
- Anand Kumar Mishra, **Amit Kumar Tyagi**, Micheal Olaolu Arowolo., "Future Trends and Opportunities in Machine Learning and Artificial Intelligence for Banking and Finance", in the book: Applications of Block Chain technology and Artificial Intelligence, Springer 2024. https://doi.org/10.1007/978-3-031-47324-1_13
- Anand Kumar Mishra, R. Ravinder Reddy, **Amit Kumar Tyagi**, Micheal Olaolu Arowolo "Artificial Intelligence Enabled Edge Computing: Necessity of Next Generation Future Computing System", in the book: IoT Edge Intelligence, Springer 2024. https://doi.org/10.1007/978-3-031-58388-9 3
- Anand Kumar Mishra, Shrikant Tiwari, Amit Kumar Tyagi and Micheal Olaolu Arowolo,
 "Security, Privacy, Trust and Provenance issues in Internet of Things based Edge Environment",
 in the book: IoT Edge Intelligence, Springer 2024. https://doi.org/10.1007/978-3-031-58388-9
- Amit Kumar Tyagi, Bukola Fatimah Balogun, Shrikant Tiwari "Blockchain for Digital Forensics: A Review", in the book: Global Perspectives on the Applications of Computer Vision in Cybersecurity, IGI Global, USA 2024. DOI: 10.4018/978-1-6684-8127-1.ch008
- Prakash M., Amit Kumar Tyagi, Senthil Kumar Arumugam, Arnav Rawat "Internet of Things for Building a Smart and Sustainable Environment: A Survey", in the book: Achieving Sustainability with AI Technologies, IGI Global USA, 2024. DOI: 10.4018/979-8-3693-5247-2.ch002
- Amit Kumar Tyagi, Aswathy K. Cherian, Shrikant Tiwari "Green Cloud Computing: Challenges and Opportunities", in the book: Achieving Sustainability with AI Technologies, IGI Global USA, 2024. D OI: 10.4018/979-8-3693-5247-2.ch012
- Richa, Amit Kumar Tyagi, "Three Decades of Recommendations Systems in Vehicular Ad hoc Network: Open Issues, Challenges and Research Opportunities for Future," in the book: Blockchain Technology in the Automotive Industry, CRC Press, 2024.
- Amit Kumar Tyagi, Gopalkrishnan, "Blockchain Technology An Introduction," in the book: Blockchain Technology in the Automotive Industry, CRC Press, 2024.
- Amit Kumar Tyagi, "Machine Learning, Deep Learning and Internet of Things based Smart Grids and Power Systems", CRC Press, 2024.
- Shabnam Kumari, **Amit Kumar Tyagi**, Bukola, F M, "Quantum Computing The Future of Artificial Intelligence", in the book: Next Generation Data Science and Blockchain Technology for Industry 5.0, Wiley, 2024.
- Amit Kumar Tyagi, "The Role of Futuristic Technologies for Making a Sustainable Environment", in the book: Achieving Sustainability with AI Technologies, IGI Global USA, 2024.
- Amit Kumar Tyagi, "Future Perspectives of ChatGPT towards Industrial 4.0, Society 5.0 And Modern Education", in the book: Impacts of Generative AI on Creativity in Higher Education,

- IGI Global USA 2024.
- Amit Kumar Tyagi, "Further Research Opportunities and Challenges Towards AI driven Tools for Modern Generation", in the book: Impacts of Generative AI on Creativity in Higher Education, IGI Global USA 2024.
- Richa, **Amit Kumar Tyagi**, Tanuj Surve, "Introduction to Industry 5.0 and Society 5.0", in the book: Next Generation Data Science and Blockchain Technology for Industry 5.0, Wiley, 2024.
- Tanij Surve, Amit Kumar Tyagi, Abirami A, Shabnam Kumari, "Blockchain Technology- An Introduction", in the book: Next Generation Data Science and Blockchain Technology for Industry 5.0, Wiley, 2024.
- Amit Kumar Tyagi, The Road to Smart Banking: Opportunities and challenges for Next generation, in the book: Convergence of Technology and Operations Management in Modern Businesses, IGI global, 2024.
- Amit Kumar Tyagi, Advanced Banking Solutions for Industry 5.0: From Industry's Perspective, in the book: Creating AI Synergy Through Business Technology Transformation, IGI global, 2024.
- Amit Kumar Tyagi, Modern Smart Banking with cutting edge technologies: A Sustainable Banking and Financial World, in the book: Creating AI Synergy Through Business Technology Transformation, IGI global, 2024.
- Amit Kumar Tyagi, Smart Banking Solutions for Modern Society: Opportunities and Challenges, in the book: Convergence of Technology and Operations Management in Modern Businesses, IGI global, 2024.
- Amit Kumar Tyagi, Smart Financial services through smart baking in the era of Industry 5.0: Opportunities and challenges, in the book: Convergence of Technology and Operations Management in Modern Businesses, IGI global, 2024.
- **Amit Kumar Tyagi**, Industry 5.0 at the Core of Society 5.0 A Revolution in Modern Era of Health Care Sector, in the book: Sustainable Innovation for Industry 6.0, IGI global, 2024.
- Shikhar Raghuvanshi, **Amit Kumar Tyagi**, Micheal Olaolu Arowolo, "Human Computer Interaction (HCI) An Advancement in the Development of Computer Technology", in Book titled: Blockchain and Explainable Artificial Intelligence (BlockXAI), River Publisher, 2024.
- Arun Viswanathan, **Amit Kumar Tyagi**, Micheal Olaolu Arowolo, "Human-Computer Interaction and Explainable Artificial Intelligence: For the Effective Use of Technology", in Book titled: Blockchain and Explainable Artificial Intelligence (BlockXAI), River Publisher, 2024.
- **Amit Kumar Tyagi**, Role of Online Social Networking in healthcare, in the book: Online Social Netwok for business framework, Wiley Scrivener, 2024.
- Amit Kumar Tyagi, Application and future trends in Online Social Networking for next generation, in the book: Online Social Netwok for business framework, Wiley Scrivener, 2024.
- Amit Kumar Tyagi, Security and possible threats in Today's Online Social Networking Platforms, in the book: Online Social Network for business framework, Wiley Scrivener, 2024.
- Amit Kumar Tyagi, The future with Artificial Intelligence and Machine learning in the Online Social Networking Industry, in the book: Online Social Network for business framework, Wiley Scrivener, 2024.
- Amit Kumar Tyagi, Future opportunities towards Online Social Networking in the era of Industry 4.0/5.0, in the book: Online Social Network for business framework, Wiley Scrivener, 2024.
- Amit Kumar Tyagi, Online Social Networking: Power of Industry 6.0 and Beyond, in the book: Online Social Netwok for business framework, Wiley Scrivener, 2024.
- Amit Kumar Tyagi, Artificial Intelligence Natural Language Processing based Business Intelligence, in the book: Natural Language Processing for Software Engineering Methodology, Wiley Scrivener, 2024.

- Amit Kumar Tyagi, Search Engine Optimization Techniques for Effecting Natural Language Processing, in the book: Natural Language Processing for Software Engineering Methodology, Wiley Scrivener, 2024.
- Amit Kumar Tyagi, Artificial Neural Network Algorithms for Software Engineering Processes, in the book: Natural Language Processing for Software Engineering Methodology, Wiley Scrivener, 2024.
- Amit Kumar Tyagi, Natural Language Processing (NLP) based Intelligence for Pattern Mining using Artificial Intelligence, Robotics, in the book: Natural Language Processing for Software Engineering Methodology, Wiley Scrivener, 2024.
- Amit Kumar Tyagi, Role of Emerging Technologies with Natural Language Processing for Next Decade, in the book: Natural Language Processing for Software Engineering Methodology, Wiley Scrivener, 2024.
- Amit Kumar Tyagi, Future of Digital Tools/ Information Technologies for Building Effective Software Tools to Next Generation, in the book: Natural Language Processing for Software Engineering Methodology, Wiley Scrivener, 2024.
- Amit Kumar Tyagi, Meghna Manoj Nair, Future of Industry 5.0 in Society 5.0: Human-Computer Interaction based Solutions for Next Generation, CRC Press, 2024.
- Priyanka, S, **Amit Kumar Tyagi**, Bireshwar D Mazumdar, The Future of Manufacturing and Artificial Intelligence: Industry 6.0, and Beyond, CRC Press, 2024.
- Amit Kumar Tyagi, "Blockchain for Banking and Finance: A Survey", in the book: AI-Driven Marketing Research and Data Analytics, IGI Global, USA 2024.
- Tanuj Surve, **Amit Kumar Tyagi,** "Consensus Algorithms and Blockchain", in the book: Blockchain Technology for Water and Environment Systems, Springer 2024.
- Richa, Amit Kumar Tyagi, "Digital Twins for Urban Planning", in the book: Encyclopedia of Green and Smart City Springer 2024.
- **Richa, Amit Kumar Tyagi,** "Green Mobility as a Service", in the book: Encyclopedia of Green and Smart City Springer 2024.
- Amit Kumar Tyagi, "Quantum Computing: Evolution, Recent Advancements", in the book: Future Opportunities and Challenges for Future Generation, IGI Global 2024.
- Amit Kumar Tyagi, "Quantum Computing for Next-Generation Artificial Intelligence -Based Blockchain", Wiley, 2024.
- **Amit Kumar Tyagi**, "Application of Qubits in Artificial Intelligence and Machine Learning", CRC, 2024.
- **Amit Kumar Tyagi**, "Smart sensors for hospital 4.0/5.0: an introduction", in the book: Sensors and Nanosensor Networks for Smart Hospitals, Elsevier 2024.
- Amit Kumar Tyagi, "Blockchain for sensor networks", in the book: Sensors and Nanosensor Networks for Smart Hospitals, Elsevier 2024.
- Amit Kumar Tyagi, "Digital twin for sensor networks", in the book: Sensors and Nanosensor Networks for Smart Hospitals, Elsevier 2024.
- Shabnam Kumari, **Amit Kumar Tyagi**, "Blockchain in AI-powered medical devices", in the book: Sensors and Nanosensor Networks for Smart Hospitals, Elsevier 2024.
- Shabnam Kumari, **Amit Kumar Tyagi**, "Sensor networks and digital twin for healthcare monitoring", in the book: Sensors and Nanosensor Networks for Smart Hospitals, Elsevier 2024.
- Shabnam Kumari, **Amit Kumar Tyagi**, "Medical sensor network, edge computing and blockchain for efficient medical data exchange", in the book: Sensors and Nanosensor Networks for Smart Hospitals, Elsevier 2024.
- Amit Kumar Tyagi, "Medical sensor network, edge computing and blockchain for efficient medical data exchange", in the book: Digital Twin and Blockchain for Sensor Networks in Smart

- Cities, Elsevier, 2024.
- Amit Kumar Tyagi, "Smart wireless sensor networks for road traffic management system and road safety", in the book: Digital Twin and Blockchain for Sensor Networks in Smart Cities, Elsevier, 2024.
- Amit Kumar Tyagi, "Digital Twin Consensus for Blockchain-Enabled Intelligent Transportation Systems in Smart Cities", in the book: Digital Twin and Blockchain for Sensor Networks in Smart Cities, Elsevier, 2024.
- Amit Kumar Tyagi, "Blockchain technology and digital twin in logistics and supply chain management", in the book: Digital Twin and Blockchain for Sensor Networks in Smart Cities, Elsevier, 2024.
- Amit Kumar Tyagi, "Cloud computing and digital twin-based healthcare monitoring frameworks", in the book: Digital Twin and Blockchain for Sensor Networks in Smart Cities, Elsevier, 2024.
- **Amit Kumar Tyagi**, "Digital twin application in healthcare facilities management", in the book: Digital Twin and Blockchain for Sensor Networks in Smart Cities, Elsevier, 2024.
- Amit Kumar Tyagi, "Blockchain-Based Smart Parking for Digital-Twin Empowered Vehicular Sensing Networks with Privacy Protection", in the book: Digital Twin and Blockchain for Sensor Networks in Smart Cities, Elsevier, 2024.
- Amit Kumar Tyagi, Artificial intelligence-enabled security Systems for 6G wireless networks: Algorithms, strategies, and applications, in the book: Advances in Fog Computing and the Internet of Things for Smart Healthcare, Elsevier 2024.
- **Amit Kumar Tyagi**, Challenges and Opportunities for Smart Healthcare Systems, in the book: Advances in Fog Computing and the Internet of Things for Smart Healthcare, Elsevier 2024.
- Amit Kumar Tyagi, Fog computing and IoT-based technology security and privacy in smart healthcare systems, in the book: Advances in Fog Computing and the Internet of Things for Smart Healthcare, Elsevier 2024.
- Amit Kumar Tyagi, Privacy protection for fog computing and IoT-based technology in smart healthcare systems, in the book: Advances in Fog Computing and the Internet of Things for Smart Healthcare, Elsevier 2024.
- Amit Kumar Tyagi, The potential applications of fog computing and IoT in healthcare, in the book: Advances in Fog Computing and the Internet of Things for Smart Healthcare, Elsevier 2024.
- Amit Kumar Tyagi, Real-world Applications of fog computing and IoT implementations in healthcare, in the book: Advances in Fog Computing and the Internet of Things for Smart Healthcare, Elsevier 2024.
- Amit Kumar Tyagi, Aswathy S U, "Integrating Blockchain Technology and Artificial Intelligence: Synergies, Perspectives, Challenges and Research Directions", in Book titled Advances in Blockchain Technology for Cyber-Physical Systems, Internet of Things, Springer Series, 2023.

Seminar/ Webinar/ Conferences/ any Programs (Conducted)

- 6th Big Data Conclave, 30 May 2020.
- Webinar on "Recent Trends in Blockchain Technology": 22 June 2020.
- 1st International Conference on Smart and Secure Computing (SMASEC 2020), 25-26 December, 2020.

Members of Research Societies/ Communities

• ACM, IEEE Communication, IEEE Signal Processing Society, Oracle Academy, International

Association of Academicians (IAASSE), Data Science Foundation, Machine Intelligence Research (MIR) Labs, Indian Society for Technical Education (ISTE), International Journal of Computational Science and Engineering, Ramanujan Mathematical Society, Cryptology Research Society India (CRSI), Universal Scientific Education and Research Network (USERN), IRAN, Asia Pacific Institute of Science and Engineering, Hongkong, CSI, African Research Universities Alliance (ARUA) and many more.

Lab Established (with Government/ University's Research Fund)

• Big Data Analytics, November 2018. (*Tools: Hadoop, KNIME, Apache Spark, and R Language*), *Address:* Room no. 2104, Department of CSE, Lingaya's Vidyapeeth, Faridabad, Haryana, India. (Capacity: 18 Seats)

Software Engineering/ Technical Skills

- Computer Language C, C++, HTML, XML, Python, Ruby and Qt framework.
- Simulation Tools Network Simulator-2 and 3, MOVE, SUMO, ONE, GTMobiSim, VANETSim, KNIME, Tensor Flow, PyTorch/ Tensorflow/ Keras/ Caffe, and Apache Spark, etc.
- Operating Systems DOS, WINDOW and LINUX.

Referees

National

- Prof. (Dr.) N.Sreenath, Professor (HAG), Department of Computer Science and Engineering., Puducherry Technological University (formally known as Pondicherry Engineering College, Puducherry), India-605014. Tel: +91-9443289642, Email: nsreenath@ptuniv.edu.in, sreeniladhuri@gmail.com
- Prof. (Dr.) G.Aghila, Director, National Institute of Technology, Tiruchirappalli, Tamilandu, India 620015. Tel: +91-9486143910, Email: aghilaa@gmail.com, aghila@nitpy.ac.in
- Dr.Siva Sathya, Associate Professor, Department of Computer Science, Pondicherry University, Puducherry, India-605014. Tel: +91- 9487566093, Email: sivasathya.csc@pondiuni.edu.in, ssivasathya@gmail.com
- Prof. (Dr.) Aswani Kumar Cherukeri, Professor (HAG), School of Information Technology & Engineering, Vellore Institute of Technology, Vellore 632014. Tel: +91-9894132595, Email: cherukuri@acm.org, aswani@vit.ac.in
- Dr.Poonguzhali N, Associate Professor, School of Computer and Systems Sciences, Jawaharlal Nehru University, New Delhi 110067, Mobile No: 9487062008, Mail Id: poonguzhali@jnu.ac.in

International

- Prof. (Dr.) Ajith Abraham, Director Machine Intelligence Research Labs (MIR Labs) Scientific Network for Innovation and Research Excellence 11, 3rd Street NWP.O. Box 2259, Auburn, Washington 98071, USA, Tel: +1(253) 2453001 / +1(646) 8016894, Email: ajith.abraham@ieee.org
- Dr Habil Arturas Kaklauskas, Head of the Department of Construction Economics and Property Management Vilnius Gediminas Technical University, Lithuania, Phone +370 5 274 5234. Local phone 9234, Email: arturas.kaklauskas@vgtu.lt
- Ph.D. Nebojša Bačanin-Džakula, Associate Professor, Vice-Rector for Scientific Research, Singidunum University, Danijelova,11000 Beograd, Srbija. Contact no: +38165/3093-224. Email: nbacanin@singidunum.ac.rs