



Dr. Ratnesh Prasad Srivastava

School: Mathematical and Computational Sciences

Department: Computer Science and Information Technology(CSIT)

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Git Hub Link: <https://github.com/ratnesh-srivastava>

Youtube Link: <https://youtu.be/CRvZZQ8kq18>

Personal Web Page Link: NA

Qualification:

Ph.D. Information Technology from Indian Institute of Information Technology(IIT) Allahabad in Year 2018

M.Tech.(Software Engineering) from MNNIT Allahabad

Area of Interest:

Data Science, Computer Vision , Block Chain, Programming Languages, Formal Verification

Experience: 20 Years

1. Working as Associate Professor in Department of CSIT since 18.10.2022
2. Worked as Assistant Professor of G.B.Pant University of Agriculture and Technology Pantnagar in Department of Information Technology from 30.1.2011 to 17.10.2022
3. 6+ years of experience in reputed software industries

Patent Detail:

A. Title of the invention : WOMAN SAFETY HIDDEN MALICIOUS CHIP USING IOT- BASED TRACKING TECHNOLOGY

Application No.202111008095 A

Publication Date : 26/03/2021

Date of filing of Application :26/02/2021

https://ipindia.gov.in/writereaddata/Portal/IPOJournal/1_4963_1/Part-1.pdf

B. Title: AN INNOVATIVE METHOD FOR HIERARCHICAL CATEGORIZATION OF LARGE COLLECTION OF DOCUMENTS USING AI- BASED TECHNIQUE

Application No.202111017872 A

Date of filing of Application :17/04/2021

Publication Date : 21/05/2021

https://ipindia.gov.in/writereaddata/Portal/IPOJournal/1_4979_1/Part-1.pdf

C. Title of the invention : AUTOMATED IOT BASED SMART AGRICULTURE MONITORING AND PROTECTION SYSTEM WITH DRONE

Application No.202111026157 A

Date of filing of Application : 11/06/2021

Publication Date : 18/06/2021

https://ipindia.gov.in/writereaddata/Portal/IPOJournal/1_4987_1/Part-1.pdf

PARTICIPATION IN REFRESHER COURSES/TRAINING

2012 Training on “**Computer Applications in Science & Technology**” organized by College of Technology Pantnagar from October, 09-23,2012 (**15 days**)

2012 National Institute of Technical Teachers Training & Research Chandigarh sponsored short term course on “**Soft Computing Techniques and Applications**” conducted by ETV Department from November, 05,2012-09,2012 (**5 days**)

2013 Training on “**Efficient Object Relational Mapping Concept in Web Technologies**” conducted by Department of Information Technology, College of Technology Pantnagar from April, 22-27,2013 (**5 days**)

2013 National Institute of Technical Teachers Training & Research Chandigarh sponsored short term course on “**Cloud Computing**” conducted by Computer Science Department of NITTR Chandigarh at Pantnagar from March, 04,2013-08,2013 (**5 days**)

2014 AICTE Sponsored Two Weeks Faculty Development Programme on “**Information and Cyber Security Management**” conducted by Department of Computer Engineering, College of Technology, Pantnagar from Dec, 22,2013-Jan 5,2014 (**15 days**)

2014 Training on “**Mobile & Distributed Computer Systems & Models**” conducted by Indian Institute of Technology(IIT) , Roorkee from January, 06-10,2014 (**5 days**)

2018 Training on “**Advances in Wireless Networks(AWN-2018)**” organized by Computer Engineering Department, College of Technology, Pantnagar from March 12-17,2018. **Sponsored by: TEQIP-III (5 days)**

2018 Faculty Development Programme on “**Internet of Things(IoT) with Cloud Applications**” conducted by the Electronics & ICT Academy, IIT Roorkee at

Department of IT, College of Technology, GBPUA&T Pantnagar from May 7-11,2018. **(5 days)**

2018 Faculty Development Programme on **“High Performance Computing, Parallel Programming & Data Science”** conducted by FGIET Raebareilly and Sponsored by TEQIP-III, from June 11-15,2018. **(5 days)**

2018 Technical Education Quality Improvement Programme(TEQIP-III) Summer workshop on **“Active Learning, Autonomy, Academic Governance and R&D”** at IIT Roorkee from June 18-22, 2018. **Sponsored by : TEQIP-III (5 days)**

2018 Attended 5th IEEE Uttar Pradesh Section Conference ,UPCON 2018 for presenting my PHD thesis entitled **“Development of Architecture for Integration of Heterogeneous Component Frameworks”** in PHD Symposium jointly organized by Mandan Mohan Malaviya University of Technology, Gorakhpur and University of Ryukyus, Okinawa Japan during November 2-4, 2018. **(3 days)**

2019- 2020

Digital Transformation in Teaching Learning Process 6-22 April,2020 Webinar

2021-22

Attended Online Workshop on “Blockchain Technology and its Applications during 17th – 21st Jan, 2022 by VIT-AP University **[1 Week]**

Attended Online Faculty development programme (FDP) on “Natural Language Processing” jointly organized by the Electronics and ICT Academies at IIT Kanpur, IIT Roorkee, MNIT Jaipur, PDPM IITDM Jabalpur and NIT Patna during February 7- 18, 2022 under the “Scheme of financial assistance for setting up of Electronics and ICT Academies” of the Ministry of Electronics and Information Technology (MeitY), Government of India. **[2 Weeks]**

Attended Online certificate course on “AI & Machine Learning for IoT/EDA”, jointly organized by the Electronics and ICT Academies at MNIT Jaipur and NIT Patna, during 07th to 17th March, 2022 under the “Scheme of financial assistance for setting up of Electronics and ICT Academies” of the Ministry of Electronics and Information Technology (MeitY), Government of India. **[2 Weeks]**

Attended One Week Online Indo-Spanish Workshop on Fundamentals of Medical Imaging organized by department of Computer Science and Engineering, PDPM, IITDM, Jabalpur during 27th September to 2nd October, 2021 **[1 Week]**

Attended Online Training Programme on “Data Science and its Applications” organized by Electronics and ICT Academy, NIT Patna, held from March 01 – March 08, 2022 in online mode under the “Scheme of financial assistance for setting up of Electronics and ICT Academies” by the Ministry of Electronics and Information Technology (MeitY), Government of India. **[1 Week]**

Attended Online Workshop on “ 5 Days International Workshop on Deep Learning in Healthcare” from 6th – 10st September, 2021 by Department of Data Science and Business Systems , College of Engineering & Technology, SRM Institute of Science & Technology in association with University of California, Davis-USA. **[5 Days]**

Books

1. Ratnesh Prasad Srivastava, Lokendra Singh Umrao, Rohit, Vivek, “Programming Using Python” INSC International Publishers, ISBN: 978-1- 68576-078-6, 2021
2. Ratnesh Prasad Srivastava, Lokendra Singh Umrao, Ashish Srivastava, “Programming Made Easy”, Iterative International Publishers, E-ISBN: 978-93-95632-08-9, 2022

Book Chapter

1. Lokndra Singh Umrao, Ravi Ranjan Chaudhary, Ratnesh Prasad Srivastava, “Convolutional Neural Network-based Approach for Landmark Recognition” 2023 Taylor & Francis Group, London, ISBN 978-1-032-41287-0
2. Ratnesh Prasad Srivastava, Lokndra Singh Umrao, Divya Singh, Ali Imam Abidi “Implementation of Deep Learning Algorithm using Generative Adversial Network” 2023 Taylor & Francis Group, London, ISBN 978-1-032-41287-0

Journal Published

1. Srivastava, R.P., Umrao, L.S. & Yadav, R.S. Real-time yoga pose classification with 3-D pose estimation model with LSTM. *Multimed Tools Appl* **83**, 33019–33030 (2024). <https://doi.org/10.1007/s11042-023-17036-8>
2. Srivastava, R. P. ., Umrao, L. S. ., & Yadav, R. S. . (2023). A SOA and DBUS-based Robotic Component Interaction. *Journal of Scientific Research*, 15(1), 11–29. <https://doi.org/10.3329/jsr.v15i1.57545>
3. Ratnesh Prasad Srivastava, G.C. Nandi, Rohit Shukla and Harsh Verma " **Concurrent Asynchronous Robotic Subsumption using Actors Promises**," International Journal of Robotics and Automation (IJRA) Vol. 8, No. 4, December 2019, pp. 217~244 ISSN: 2089-4856, DOI: 10.11591/ijra.v8i4.pp217-244

4. Ratnesh Prasad Srivastava and Rajiv Singh “[Monoids for Monadic Composition](#)” International Journal of Applied Engineering Research (IJAER) ISSN 0973-4562 Vol. 14, No. 11 (2019) pp. 2578-2584
5. Ratnesh Prasad Srivastava and Rajiv Singh “[Word Ranking Based Document Clustering](#)” International Journal of Applied Engineering Research(IJAER) ISSN 0973-4562 Volume 14, Number 11 (2019) pp. 2782-2788
6. Rajiv Singh, Neelam Rawat and Ratnesh Prasad Srivastava “**Performance Evaluation of a Solar Tree Design and a Fixed Solar Panel for Effective Solar Power Harnessing**” International Journal of Applied Engineering Research (IJAER) ISSN 0973-4562 Volume 14, Number 11 (2019) pp. 2616-2621
7. Aanchal Verma, Ratnesh Srivastava, H.L Mandoria and Binay Pandey “**A REVIEW ON IMAGE BASED PERSON AND OBJECT RECOGNITION USING SIFT AND HMM**” International Research Journal of Engineering and Technology (IRJET) e-ISSN: 2395-0056 Volume: 05 Issue: 04 | Apr-2018
8. Pratyush Pant, Dr. Ratnesh Prasad Srivastava, Prayash, Anshika Tyagi, Chandradeep Pokhariya “Smart Geofencing For Attendance Monitoring” International Journal of Research and Analytical Reviews (IJRAR) (E-ISSN 2348-1269, P- ISSN 2349-5138 June 2019, Volume 6, Issue 2 <https://ijrar.org/papers/IJAR19K6714.pdf>
9. Shikha Singh, BinayKumar Pandey, Ratnesh Srivastava, Neha Rawat, Poonam Rawat, Awantika**Cloud Computing Attacks: A Discussion With Solutions** Open J. Mob. Comput. Cloud Comput., 1 (1) (2014)
10. Neha Rawat, Ratnesh Srivastava, Binay Kumar Pandey, Poonam Rawat, Shikha Singh, Awantika Sharma “**Data Security Issues in Cloud Computing**” in Open Journal of Mobile Computing and Cloud Computing, vol. 1, pp 9-17, 2014
11. Shikha Singh , Binay Kumar Pandey , Ratnesh Srivastava , Neharawat ,Poonamrawat , Awantika “Cloud Computing Attacks: A Discussion With Solutions”, Open Journal Of Mobile Computing And Cloud Computing, Volume 1, Number 1, August 2014.
12. Monika Mogra, Ratnesh Prasad Srivastava, Vivek Srivastava “**Rapid Prototyping for Indexing and Retrieval for Text and Images** “ in International Journal of Engineering Research and Applications (IJERA) ISSN: 2248-9622 , Vol. 3, Issue 1, pp.1765-1776, January -February 2013
13. Tripathi A., Srivastava R.P., Singh A.K., Choudhary P., Vashist P.C. (2020) Diagnosis of Cough and Cancer Using Image Compression and Decompression Techniques. In: Hu YC., Tiwari S., Trivedi M., Mishra K. (eds) Ambient Communications and Computer Systems. Advances in Intelligent Systems and Computing, vol 1097. Springer, Singapore. https://doi.org/10.1007/978-981-15-1518-7_30
14. Srivastava R.P., Mandoria H.L., Nautiyal R. (2013) **Mobile Based Attendance System in Distributed LAN Server**. In: Singh K., Awasthi A.K.

- (eds) Quality, Reliability, Security and Robustness in Heterogeneous Networks. QShine 2013. Lecture Notes of the Institute for Computer Sciences, Social Informatics and Telecommunications Engineering, vol 115. Springer, Berlin, Heidelberg
15. "Rahul Rawat, Ratnesh Prasad Srivastava, "IoT Based Surveillance System Using DNN Model", International Journal for Research in Applied Science & Engineering Technology (IJRASET),ISSN: 2321-9653; IC Value: 45.98, Volume 9 Issue XII Dec 2021
 16. Ratnesh Prasad Srivastava, Lokendra Singh Umrao, Ashish Srivastava, "Concurrent Farm Control Monitoring Using Iot" "TELEMATIQUE", 2022, Volume 21 Issue 1, 2022 ISSN: 1856-4194 2061 – 2069 [ESCI]

International Conferences:

1. Ratnesh Prasad Srivastava and G.C. Nandi., " **Indexing & Retrieval using Genetic XML based Approaches**," IEEE1st International Conference on Recent Advances in Information Technology (RAIT-2012), Vol. 2, pp: 21-27, ISBN No: 978-93-80813-17-2, March 15-17, 2012.
2. Ratnesh Prasad Srivastava and G.C. Nandi., " **Controlling Multi Thread Execution using Single Thread Event Loop**," IEEE International Conference on Innovations in Control,Communication and Information Systems (ICICCI-2017), August 12-13, 2017, Greater Noida.
3. Ratnesh Prasad Srivastava and G.C. Nandi., "**Integration of Robotics Components and Veri_cation Using Petri Net**," IEEE International Conference on Innovations in Control, Communication and Information Systems (ICICCI-2017), August 12-13, 2017, Greater Noida.(To appear in IEEEExplorer)
4. Ratnesh Prasad Srivastava, Vivek Srivastava, "**AIA (Automatic Image Annotation)**" International Conference on Communication and Computing Technology (ICCCT-2018), ISBN No: 978-93-86238-58-0.,September 7-8, 2018, Greater Noida.
5. Ratnesh Prasad Srivastava, Vivek Srivastava, "**Monoids for Monadic Composition**" International Conference on Communication and Computing Technology (ICCCT-2018), ISBN No: 978-93-86238-58-0.,September 7-8, 2018, Greater Noida.
6. Ratnesh Prasad Srivastava, G.C. Nandi, Vivek Srivastava, "**Using Robots as Actors for Concurrent Service Subsumption of N Robots**" International Conference on Communication and Computing Technology (ICCCT-2018), ISBN No: 978-93-86238-58-0.,September 7-8, 2018, Greater Noida.
7. Ratnesh Prasad Srivastava, G.C. Nandi, Vivek Srivastava, "**Cough and Cancer Diagnosis using Image Compression and Decompression**"

International Conference on Communication and Computing Technology (ICCCT-2018), ISBN No: 978-93-86238-58-0, September 7-8, 2018, Greater Noida.

8. **An Adaptive Image Retrieval System with Relevance Feedback and Clustering** by Arpit Saxena & Ratnesh Prasad Srivastava ,Conference on Engineering and Systems(SCES-2012), MNNIT Allahabad
9. Pujari, S., Mandoria, H.L., Shrivastava, R.P., Singh, R. (2022). To Identify Malware Using Machine Learning Algorithms. In: Chaubey, N., Thampi, S.M., Jhanjhi, N.Z. (eds) Computing Science, Communication and Security. COMS2 2022. Communications in Computer and Information Science, vol 1604. Springer, Cham. https://doi.org/10.1007/978-3-031-10551-7_9
10. R. P. Srivastava, A. Tripathi, A. K. Singh and R. Singh, "Robotics Concurrency: A Holistic Implementation using Actors and Promises," 2022 International Conference on Computational Intelligence and Sustainable Engineering Solutions (CISES), 2022, pp. 154-159, doi: 10.1109/CISES54857.2022.9844382.

National Seminars

1. **Ubiquitous Network and Cloud Computing Practices in Agriculture Sector** by Ratnesh Srivastava, Neha Rawat , Binay Kumar Pandey of Department of Information Technology Published in National Seminar on “Natural Resource Management & Environmental Concerns “ from May,16-17,2014.
2. **Effective Land Planning for Monitoring Agricultural Production** by Bhushan Pant, Ashok Kumar, Priyanka and Ratnesh Srivastava of Department of Information Technology Published in National Seminar on “Natural Resource Management & Environmental Concerns “ from May,16-17,2014.

MEMBERSHIP OF PROFESSIONAL SOCIETIES

- ☐ Life Member of Indian Society for Technical Education (ISTE) **No. LM-9045**
- ☐ Life Time Member of Institution of Engineers India(IEI)
- ☐ Member of ACM

Dr. Ratnesh P. Srivastava