Curriculum Vitae

Name	**Dr. Prem Nath**		
Designation	**Associate Professor**		
Department	**Computer Science and Engineering, H N B Garhwal University (A Central University), Srinagar-246174, Uttrakhand**		
Campus	**Chauras**		
Mobile	**8256973005**		
Email id	**pmnath@hnbgu.ac.in, pmnath26@gmail.com**		
Educational Qualification	**Ph.D. (Computer Science and Engineering), IIT (ISM), Dhanbad**		
Teaching Experience	**7 Years**	**Research Experience**	**7 Years**

Area of Interest:

1. Wireless Communication
2. P2P Networks
3. Theory of Computation
4. Intellectual Property Rights

Research Supervision (No. of Ph.D. Degree Awarded/ Registered): **02**

Administrative and Academic Experience

1. **Examiner of Patents and Designs, The Patent Office, Kolkata & Delhi (Govt. of India)**
2. **Assistant Controller of Patents and Designs, The Patent Office, Kolkata (Govt. of India)**
3. **Associate Professor, Computer Engineering Dept., Mizoram University (A Central University)**

Conference/Symposium/Workshop Attended :

1. Training at **IPTI, Nagpur** in the field of Patent and Design examination Jan 2004.
2. Training at **The Japan Patent Office (JPO), Tokyo, Japan** in the field of "Computer Programs" in March, 2007 sponsored by World Intellectual Property Organization (**WIPO**).
3. Training at The Patent Offices in collaboration with many foreign bodies like, European Patent Office, US Patent and Trade Marks Office, etc. 2009.
4. Seminar at Patent Office, Mumbai in the field of "Patent Examination and prior art Searching" 26-27 Oct, 2010 with Delegates from **Japan Patent Office** (JPO), Tokyo, Japan.
5. Seminar at Patent Office, Chennai in the field of "Patent Examination and prior art

Searching" March, 2011 with Delegates from **United States Patents and Trade Marks Office** (USPTO), United States.

6. Regional Workshop on the Nice, Vienna and Locarno Classification Systems organized by the World Intellectual Property Organization (WIPO) in cooperation with the **Intellectual Property Office of the Philippines** (IPOPHL), Manila, Nov 18 to 22, 2013.
7. Training on International Patent Classification (IPC), 22-24 Sept 2014, The Patent Office, Kolkata, India organized by World Intellectual Property Organization (**WIPO**).

Publication:

PAPER PUBLICATION:

2020

1. Sanjeev Kumar Singh, Chiranjeev Kumar, **Prem Nath, "Analysis and modelling the effects of mobility, Churn rate, node's life span, intermittent bandwidth and stabilization cost of finger table in structured mobile P2P networks**", **Wireless Networks** (eISSN-1572-8196), Springer, Published on 19 Nov 2020, DOI: https://doi.org/10.1007/s11276-020-02493-y, **SCI IF-2.659**.
2. Mahendra Singh, Chiranjeev Kumar, **Prem Nath, "Finger Forwarding Scheme to Reduce Lookup Cost in Structured P2P Networks", Wireless Personal Communication (eISSN-**1572-834X**),** Springer, Published online 17thMay 2020, **DOI:** https://doi.org/10.1007/s11277-020-07475-z, **SCI IF-1.061.**

Year 2019

1. Mahendra Singh, Chiranjeev Kumar, **Prem Nath, "Local P2P Group (LPG) Communication in Structured Mobile P2P Network", Journal of Ambient Intelligence and Humanized Computing (eISSN-**1868-5145**)**, Springer, Published on 7th Sept. 2019, DOI: https://doi.org/10.1007/s12652-019-01442-8, **SCI IF-4.594.**
2. Mahendra Singh, Chiranjeev Kumar, **Prem Nath, "**Mobility Pattern Based Chord (MP-Chord) for Enhanced Lookup Performance in Mobile P2P Networks", **Wireless Personal Communication (eISSN-**1572-834X**),Vol-109, pp. 1971-1985, Springer, Published online 16th Aug 2019, DOI:** 10.1007/s11277-019-06663-w, **SCI IF-1.061.**
3. Sanjeev Singh, Chiranjeev Kumar, **Prem Nath, "**Local Contribution (LC) and Trustworthiness Factors to Induce Fairness in P2P Networks", **Wireless Personal Communication (eISSN-**1572-834X**), Springer, 2019, Vol. 107, pp-303-323, SCI IF-1.061.**

Year 2017

1. **Prem Nath, "**A Survey over Mechanisms for Reducing Free Riding Behaviour in Structured P2P Networks", **Science & Technology Journal,** Vol. 5, Issue II, July 2017, pp. 110-115, published by **Mizoram University (A Central University), DOI**: http://doi.org/10.22232/stj.2017.02.07

Year 2016

2. **Prem Nath**, "Context-Sensitive Grammars and Linear Bounded Automata", **International Journal of Computer Network and Information Security** (IJCNIS), Vol. 1, pp. 61-66, Jan 2016, published by Modern Education and Computer Science (MECS) Publisher, Hong

Kong, **DOI**: 10.5815/ijcnis.2016.01.08

Year 2015

1. **PremNath** and **Chiranjeev Kumar, "**Location Management in IPv4 Networks for Fixed Mobility Pattern Users**", Wireless Personal Communications (eISSN-**1572-834X**)**, 2015, Vol. 85, pp. 987-1008, **Springer, SCI IF-1.061.**

Year 2014

2. **Prem Nath** and **Chiranjeev Kumar, "**Adaptive Mobility Anchor Point (AMAP) to Reduce Regional Registration and Packets Delivery Costs", **Computers and Electrical Engineering (ISSN-** 0045-7906), Vol. 40, pp. 1329-1343, May 2014, **Elsevier, SCI IF-2.663.**
3. **Prem Nath** and **Chiranjeev Kumar, "**Mobility Agent Based on Activity Rate of User and Adaptive Paging for Location Management in Wireless Communication", **Transactions on Emerging Telecommunications Technologies (eISSN-**2161-3915**)** formerly known as European Transactions on Telecommunications (ETT), July 2014, Vol. 25, pp. 723-735, Wiley (**John Wiley & Sons**), **SCI IF-1.594.**
4. **Prem Nath** and **Chiranjeev Kumar, "**Mobility Management Scheme for Fixed Mobility Pattern Mobile Users in IPv4 Networks", **The Computer Journal (eISSN-1460-2067)**, 2014, Vol. 57, No. 12, pp. 1893-1911, **Oxford University Press, SCI IF-1.077.**

Year 2013

5. **Prem Nath** and **Chiranjeev Kumar, "**Hybrid Scheme with Adaptive Replication and Mobility Anchoring Point (MAP) in Wireless Networks", **Wireless Personal Communications** (WPC), Vol. 72, No. 1, pp. 597-621, Aug 2013, **Springer**, **SCI IF-1.061.**
6. **Prem Nath** and **Chiranjeev Kumar, "**User's Profile Replication Tree and On Demand Replica Update in Wireless Communication", **International Journal of Computer Network and Information Security** (IJCNIS), Vol. 5, No. 3, pp. 63-71, March 2013, Modern Education and Computer Science (MECS) Publisher, Hong Kong

Year 2012

1. **Prem Nath** and **Chiranjeev Kumar, "**Dynamic Hierarchical Location Management Scheme Based on Huffman Tree Notion for IP Networks", **International Journal of Indian School of Mines**(JISM), Vol. 1, pp. 15-31, August 2012, **Indian School of Mines** (ISM), Dhanbad, India
2. **Prem Nath**, **Chiranjeev Kumar**, **R K Yadav** and **Adarsh Kumar, "**Replication Strategy Using Huffman Tree like Structure", **International Journal of Computer Science and its Applications**, Vol 2, No. 3, pp. 106-111, 2012, **Seek Digital Library**
3. **Prem Nath** and **Chiranjeev Kumar, "** Mobility Management Using Profile Replication Based on Total Network Traffic Statistic Data", **Journal of Information Systems and Communication**, Vol. 3, No. 1, pp. 359-363, 2012, **Bioinfo Publications**

International Conference:

Year 2011

1. **Prem Nath** and **Chiranjeev Kumar**, "***Improved Handover in Hierarchical Mobility***

Management for Mobile IPv4 Networks", Abstract published in the *13th International Conference of the International Academy of Physical Sciences (CONIPAS XIII),* held at UPES Dehradun, India, 14-16 June 2011, pp. 298.

Year 2012

2. **Prem Nath** & **Chiranjeev Kumar**, "User Movement-Based Hierarchical Mobility Management Scheme (UM-HMIP) for IP Networks", Published in Proc. of **3rd IEEE ICCCT-2012** held on 23-25 Nov 2012 at Motilal Nehru National Institute of Technology (MNNIT), Allahabad (U.P.)-211004, India, pp. 210-215
3. **Prem Nath** & **Chiranjeev Kumar**, "Adaptive Hierarchical Mobility Management scheme(A-HMIP) for IP Networks", **12thInternational Symposium on Communications and Information Technologies-ISCIT-2012**, 2-5 Oct 2012 held at Gold Coast Australia under the joint technical sponsorship of the IEEE Circuits and Systems Society (USA) and the joint Queensland Chapter of the IEEE Signal Processing and Communications Societies, pp. 331-336

Year 2018

4. Sanjeev Kumar Singh, Chiranjeev Kumar**, Prem Nath, "**Ranking Based System to Reduce Free Riding Behavior in P2P systems", Future of Information and Communications Conference (FICC) 2018, IEEE Sponsored International Conference, 5-6 April 2018, Singapore, published in the book Advances in Information and Communication Networks, Vol. 1, pp 165-177, ISBN 978-3-030-03401-6 ISBN 978-3-030-03402-3 (eBook), https://doi.org/10.1007/978-3-030-03402-3.
5. Mahendar Singh, Chiranjeev Kumar**, Prem Nath, "**Challenges and Protocols for P2P applications in Multi-hop Wireless Networks", ICCMC 2018, IEEE International Conference, 15-16 Feb 2018 Proceedings of the Second International Conference on Computing Methodologies and Communication (ICCMC 2018), Surya Engineering College, IEEE Conference Record # 42656, IEEE Xplore ISBN:978-1-5386-3452-3, pp. 310-316.

Year 2020

6. S. Kumar Brinda, N Senthil Kumar, Saia Chenkual, S T Lalruatfela, Thomas Zomuana, Zothansanga Ralte, Arindam Maitra, Analabha Basu, and **Prem Nath,** "Data Mining For Early Gastric Cancel Etiology Factors from Diet_lifestyle Characteristics, Proc. International Conference on Intellegente Computing and Control Systems (ICICCS 2020), Vaigai College of Engineering, 13-15 May 2020, Madurai, India
7. Mahendar Singh, Chiranjeev Kumar**, Prem Nath,** "P2P Applications in 4G/5G Networks Using D2D Communication Based on Social Attributes of Users", Proc. of 2020 Fourth World Conference on Smart Trends in Systems, Security and Sustainability (WorldS4), IEEE Conference, 27-28 July 2020, London, UK, **ISBN:978-1-7281-6823-4,** pp. 730-738.