Name : DR. NARENDRA KOHLI

Present Position : Professor & Head

Computer Science & Engg.

**Department &** 

Dean, Research & Development

**Date of Birth** : 13<sup>th</sup> April 1963

### **Educational Qualifications:**

1. High School, UP Board Allahabad, Uttar Pradesh

- 2. Intermediate, UP Board Allahabad, Uttar Pradesh.
- 3. B.Sc., Meerut University, Meerut, Uttar Pradesh.
- 4. Integrated M.Sc. Engineering, Kiev University Kiev, Ukraine (Erstwhile USSR).
- 5. Ph.D., Indian Institute of Technology Kanpur, Uttar Pradesh.

**Area of Specializations**: Database Management System, Machine Learning,
Internet of Things (IoT) and Digital Image Processing

### **Research Project**:

- 1. Principle Key Investigator of BIRAC-E-YUVA research project at Atal Incubation Hub, HBTU Kanpur
- 2 Completed TEQIP-II sponsored research project entitled "Aadhar Card based Automated Health Care System".

**Award:** 1. Received **Eminent Engineer Award** in 30<sup>th</sup>Computer Engineering Convention of The Institution of Engineers (India) at Salem, Tamil Nadu during 18<sup>th</sup>&19<sup>th</sup> February 2016.

- 2. Received "Scroll of Honour" Award by The Institution of Engineers (India) on the occasion of IEI Centenary Year on 26<sup>th</sup> January 2021.
- 3. Award for Best Chairman, IETE Kanpur Centre.
- 4. Best Teacher Award by HBTU Kanpur on 5<sup>th</sup> September 2022
- 5. Honor for exemplary services for IETE on 69<sup>th</sup> IETE Foundation Day at HBTU Kanpur on 2<sup>nd</sup> November 2022.

### **Professional Experience**

- Working as Professor in Computer Science & Engineering Department, HBTU
   (Erstwhile HBTI) Kanpur since 21<sup>st</sup> February2012.
- Worked as Associate Professor in Computer Science & Engineering Department,
   HBTU (Erstwhile HBTI) Kanpur from 1<sup>st</sup> January 2006 to 20<sup>th</sup> February 2012.
- Worked as Assistant Professor in Computer Science & Engineering Department,
   HBTU (Erstwhile HBTI) Kanpur from December 23, 2001 to December 31,2005.
- Worked as Senior Lecturer in Computer Science & Engineering Department,
   HBTU (Erstwhile HBTI) Kanpur from December 23, 1996 to December 22,2001.
- Worked as Lecturer in Computer Science & Engineering Department, HBTU (Erstwhile HBTI), Kanpur from December 23, 1991 to December 22, 1996.
- Worked as Production Manager in Computer Organization, New Delhi from October 10, 1988 to December 22, 1991.

### **Experience**

- Dean, Research & Development, HBTU Kanpur since 15<sup>th</sup> June 2022.
- Head, Computer Science & Engineering Department, HBTU (Erstwhile HBTI)
   Kanpur since 31<sup>st</sup> January 2021.
- Dean, Incubation Hub, HBTU Kanpur from September 2019 to October 2021.
- Head, Computer Science & Engineering Department, HBTU (Erstwhile HBTI)

- Kanpur from October, 2014 to October, 2017.
- Head, Computer Science & Engineering Department, Rajkeeya Engineering College, Kannouj, UP from July 2015 to June2017.
- Head, Computer Science & Engineering Department, Rajkeeya Engineering College, Mainpuri, UP from July 2015 to June 2017.
- Head, Information Technology Department, Dr. BRAEC&IT Bijnor from September 2010 to February 2013 and from October 2014 to May2015.
- Head, Computer Science & Engineering Department, HBTU (Erstwhile HBTI)
   Kanpur from September 2010 to February, 2013.
- Head, IT Department, HBTU (Erstwhile HBTI) Kanpur from March 2004 to March 2005.
- Coordinator, Admission-2018, HBTU Kanpur
- Professor In charge EPABX (Electronic Private Automatic Branch Exchange),
   HBTU Kanpur from August 2017 to March2021.
- Professor In charge Wi-Fi & Networking, HBTU Kanpur from August 2017 to December 2020. Established Jio Wi-Fi Networks in east & west campuses of HBTU Kanpur.
- Coordinator, NPTEL, HBTU (Erstwhile HBTI) Kanpur.
- In charge Networking HBTI, Kanpur from March 2004 to October 2008 (successfully completed of campus wide networking Project of Rs. 1.5 crore of more than 2000 nodes at HBTI Kanpur under TEQIP-I).
- Superintendent Examination, Dr. APJ Kalam Technical University Lucknow
   Examination, at HBTU Centre (Erstwhile HBTI) Kanpur.
- Secretary, Council of Student Activities, HBTU (Erstwhile HBTI) Kanpur from May 2013 to March2016.
- Deputy Chief Proctor, HBTU (Erstwhile HBTI) Kanpur from May 2013 to March 2016.
- Worked as Nodal Officer, NKN Project, HBTU (Erstwhile HBTI) Kanpur (Implemented NKN Project (Govt. of India) at HBTI Kanpur with Internet Lease line of 100mbps).
- Worked as Sr. Superintendent Examination at IGNOU, HBTU Centre (Erstwhile HBTI) Kanpur.
- Assistant. Superintendent Examination of HBTU (Erstwhile HBTI) Kanpur February 2009 to September2010.

- Coordinator, Indira Gandhi Open University (IGNOU) study centre at Computer Science & Engg. Deptt, HBTU (Erstwhile HBTI) Kanpur since April 2004 till date.
- Warden, WCH-III Hostel at HBTU (Erstwhile HBTI) Kanpur.
- Convener, Cinema Club HBTU (Erstwhile HBTI) Kanpur.

### **International Journals**

- Narendra Kohli and Nishchal K.Verma. Paper entitled "MySQL based Selection of Appropriate Indexing Technique in Hospital System using SVM". International Journal of Engineering, Science and Technology, ISSN No.: 2141-2820, 2(6):119-130, 2010.
- Narendra Kohli and Nishchal K.Verma. Paper entitled "Performance Issues of Health Care System using SQL Server". International Journal of Computer Science and Information Security, ISSN No.: 1947-5500, 8(2):279-284, 2010. USA. (Impact Factor: 0.423).
- 3. **Narendra Kohli** and Nishchal K.Verma. Paper entitled "Performance Analysis of Online Health Care System". International Journal of Engineering, Science and Technology, ISSN No.: 2141-2820, 3(1): 291-205,2011.
- 4. Narendra Kohli and Nishchalk. Verma. Paper entitled "Arrhythmia Classification using SVM with Selected Features". International Journal of Engineering, Science and Technology, ISSN No.: 2141-2820, 3(8): 122-131, 2012.
- Narendra Kohli and Nishchal K. Verma. Paper entitled "Health Care System with Audio and Video Facilities". Elixir Online International Journal ISSN 2229 -712X. Elixir Comp. Sci. &Engg. 45 (2012): 7709-7713, 2012. (Index Copernicus Value: 5.09).
- 6. **Narendra Kohli** and Nishchal K.Verma. Paper entitled "Videoconferencing System using Open Source Technologies". On line International Journal of

- Computer Application, IJCA ISSN No. : 0975-8881, April, 2012, New York, USA.
- Narendra Kohli and Annie Rajoria. Paper entitled "Assistive Technologies for Leaning of the Disabled". International Journal of Computer & Mathematical Sciences (IJCMS), ISSN No.: 2347-8527, Volume 3, Issue 4, pages 20-28, June 2014.
- 8. **Narendra Kohli** and Amit Khandelwal. Paper entitled "Enhancement Teaching and Learning through Information Technology". International Journal of Computer & Mathematical Science, ISSN No. : 2347-8527, Vol.2 Issue 1, January2014.
- 9. Annie Rajoria, Amit Khandelwal and **Narendra Kohli.** Paper entitled "Individual Green Computing". International Journal of Science, Technology and Society, ISSN No. 2395-1605, Volume 1, No. 1, Pages 1-4, June, 2015.
- 10. Rohit Sharma and Narendra Kohli. Paper entitled "Telemedicine as a means of employment and skill development in youth of rural India" published in Annual Technical Volume of Computer Engineering Division Board, Theme: e-Health, Volume: 1, 2017, pages 50-53, ISBN: 978-81-932567-8-7, The Institution of Engineers (India), Kolkata, January, 2017.
- 11. Mayur Rahul, **Narendra Kohli** and Rashi Agarwal. Paper entitled "**Facial Expression Recognition using Multistage Hidden Markov Model**" Scopus Journal of Theoretical and Applied Information Technology, ISSN: 1992-8645, Vol. 95/No. 23, page: 6379-6388, December2017.
- 12. Pragati Upadhyay, M. K. Pandey, Narendra Kohli. Paper entitled "A Comprehensive Survey of Pattern Mining: Challenges and Opportunities", International Journal of Computer Applications, ISSN: 0975-8887, Volume 180, No.24, page: 32-39, March, 2018.
- 13. Mayur Rahul, Narendra Kohli and Rashi Agarwal. Paper entitled "Partition Based Feature Extraction Technique for Facial Expression Recognition using Multi-Stage Hidden Markov Model" Journal of Engineering and Applied Sciences 13(9): 2651-2658, 2018. ISSN: 1816-949X,2018.

- 14. Mayur Rahul, Narendra Kohli and Rashi Agarwal. Paper entitled "Facial Expression Recognition using Local Binary Pattern and Modified Hidden Markov Model" accepted for publication in the International Journal of Advanced Intelligence Paradigms (Inderscience and Scopus Indexed Journal) DOI:10.1504/IJAIP.2018.10020898.
- 15. Mayur Rahul, **Narendra Kohli** and Rashi Agarwal. Paper entitled "Facial Expression Recognition using Local Multidirectional Score Pattern (LMSP) descriptor and Modified Hidden Markov Model", International Journal of Advanced Intelligence, Vol. 17, Nos. 3/4, 2020.
- 16. Mayur Rahul, Narendra Kohli, Rashi Agarwal and SanjuTiwari. Paper entitled "Facial Expression Recognition using Geometric Features and Modified Hidden Markov Model" accepted for publication in the International Journal of Grid and Utilities, (Inderscience and Scopus Indexed Journal), Volume 10, Number5, 2019.
- 17. Hifzan Ahmad and **Narendra Kohli**. Paper entitled "Bi-Directional Sensor Placement for K-Coverage Solution" accepted for publication in the International Journal of Advance Intelligence Paradigms, Inderscience Publishers Ltd., January2019.
- 18. Anand Handa, Rashi Agarwal Narendra Kohli. Paper entitled "A Multimodel Keyword spotting system based on lip movement and speech features. Springer Nature International Journal of "Multimedia Tools and Applications", 20 April 2020, (SCI Indexed) (IF –2.0).
- HandaA, Agarwal R, and Kohli N (2019). Paper entitled "A Comprehensive video dataset for Multi-Model Recognition Systems", "Data Science Journal" ( ScopusIndexed).
- 20. Handa, A., Agarwal, R.and **Kohli, N**. (2019). Paper entitled "Incremental Approach for Multi-Modal Face Expression-Recognition System using Deep Neural Networks", Int. J. Computational Vision and Robotics, Vol. 9. (In Press) (Scopus Indexed).
- 21. A. Handa, R. Agarwal, N. Kohli. Paper entitled "Lip Movement and Acoustic Features based Multi-Modal Lip Reading System", International Journal of

- Applied Management Science (Inderscience Journal), Special Issue Recent Multidisciplinary Research Advancements in Information Technology and Applied Management for Sustainable Development. (Reviews Submitted) (Scopus Indexed), 2019.
- 22. **Dataset Published**: Anand Handa, Dr. Rashi Agarwal, and **Prof. Narendra Kohli**(2018). A comprehensive video dataset for Multi-Modal Recognition Systems. Zenodohttp://doi.org/10.5281/zenodo.1492227.
- 23. Hifzan Ahmed and **Narendra Kohli.** Paper entitled "LSBM: Energy efficiency clustering methods in WSNs". International Journal of Advanced Computer Science and Applications, Vol. 11, no. 9, September 2020 (Scopus Indexed).
- 24. Pragati Upadhyay, Manoj Kr. Pandey and **Narendra Kohli**. Paper entitled "Periodic pattern mining from spatio-temporal database using novel global pollination artificial fish swarm optimizer based clustering and modified FP tree" International Journal Soft Computing (2021), DOI: <a href="https://doi.org/10.1007/s00500-020-05444-zpublished">https://doi.org/10.1007/s00500-020-05444-zpublished</a> on 3rd January 2021.
- 25. Hifzan Ahmad and NarendraKohli. Book Chapter entitled "Coverage Optimization using Nature-Inspired Algorithm for Directional Sensor Networks" in Nature-Inspired Computer for Smart Application Design, pp 169-191, 18 March2021(Springer).
- 26. Amit Yadav, Narendra Kohli and Anil Yadav. Paper entitled "An Advance Node Pairing Protocol for Wireless Sensor Networks". International Journal of Integrated Engineering. Vol.13 No.1 (30 January 2021) pp 75-87. ISSN:2229-838X, e-ISSN:2600-7916.
- 27. Neha Sharma, Rashi Agarwal, Narendra Kohli and Shubha Jain. Paper entitled "New Application of Life Rank Algorithm: A Case Study". Journal of University of Shanghai for Science & Technology. (Scopus Indexed). Volume 23, issue 6-2021. ISSN:1007-6735.
- 28. Awanish Mishra and Narendra Kohli. Paper entitled "An Improved Motion Estimation Criterion for Temporal Coding of Video" published in the International Journal of Computational Science and Engineering Scopus indexed, January 2022.
- 29. Shivani Awasthi and Narendra Kohli paper entitled "Analysis and design of Efficient HDFS data encryption algorithm" published in International Journal of Algorithms Design and Analysis", March 2022.

30 Neha Sharma and Narendra Kohli paper entitled ""A cascaded Encoder based Information Retrieval and Ranking System" published in International Journal of Intelligent Information System ESCI, Scopus, March 2022.

# **International Conferences**

- Awanish Mishra and Narendra Kohli. Paper entitled "Analysis of Block Matching Algorithms for Motion Estimation in Video Data" accepted in International Conference on Machine Learning & Information Processing, ICMLIP 2020 by Springer Conference Date November 28,2020.
- Awanish Mishra and Narendra Kohli. Paper entitled "Performance Analysis of Matching Criteria in Block Based Motion Estimation for Video Encoding" presented and published in Scopus Indexed International Conference on Intelligent Data Communication Technologies and Internet of Things, ICICI 2020, By Springer, Conference Date August 27,2020.
- 3. Mayur Rahul, Narendra Kohli and Rashi Agarwal. Paper entitled "Layered Recognition Scheme for Robust Human Facial Expression Recognition using Modified Hidden Markov Model" presented and published in the proceeding of International Conference "MIND-2019" at NIT Kurukhetra during 3<sup>rd</sup>& 4<sup>th</sup> March 2019.
- 4. Pragati Upadhyay, M. K. Pandey and Narendra Kohli. Paper entitled "Discovering Cyclic and partial Cyclic Patterns using the FP Growth Method incorporated with special constraints" presented and published in International Conference "Springer CCIS Series (ISSN No. 1865-0929) NGCT-2018 during 21<sup>st</sup> & 22<sup>nd</sup> November 2018 at School of Computer Science, University of Petroleum and Energy Studies, Dehradun, Uttarakhand.
- 5. Mayur Rahul, Narendra Kohli, Rashi Agarwal and P. Mamoria. Paper entitled "Facial Expression Recognition using Modified Hidden Markov Model" presented and published in the proceeding of "Scopus" International Conference "SOCTA-17" at Buldelkhand University, Jhansi, December 2017.
- 6. Anand Handa, Rashi Agarwal and Narendra Kohli. Paper entitled "A Survey of Face Recognition Techniques and Comparative Study of Various Bi-Modal and Multi-Modal Techniques" presented and published in the proceeding of International Conference ICIIS 2016 at IIT Roorkee during July2016.

- 7. Naha Sharma, Rashi Agarwal and Narendra Kohli. Paper entitled "Review of features and machine learning techniques for web searching" presented and Published in the proceeding of International Conference ICIIS 2016 at IIT Roorkee during July2016.
- Hifzan Ahmad and Narendra Kohli. Technical paper entitled "A survey on various static and mobile base stations and wireless charging of sensor nodes in WSN" presented & published in IEEE International Conference at ITM Gwalior during 19<sup>th</sup> – 21<sup>st</sup> November2015.
- 9. Narendra Kohli. Technical paper entitled "Role of Accreditation in Engineering Education" presented & published in 2<sup>nd</sup> IEEE International Conference on MOOCs, Innovation and Technology in Education during 19<sup>th</sup> & 20<sup>th</sup> November, 2014 at Thaper University Patiala, Punjab.
- 10. Annie Rajoria, Amit Khadelwal and Narendra Kohli. Technical paper entitled "Individual Green Computing" presented and published in International Conference on "Modeling and Computing" ICMC-2014 during 10<sup>th</sup>&11<sup>th</sup>July, 2014 at BBAU,Lucknow.
- 11. Paridhi Gupta, Annie Rajoria and **Narendra Kohli**. Presented & published technical paper in International Conference on Energy Efficient LED Lighting and Solar Photovoltalic Systems at IIT Kanpur during 27<sup>th</sup> 29<sup>th</sup> March2014.
- 12. **Narendra Kohli** and AmitKhadelwal. Technical paper entitled "Enhancement Teaching and Learning through Information Technology" presented & published in 4th IEEE International Conference on International Advance Computing conference at ITM University Gurgaon during 21<sup>st</sup>& 22<sup>nd</sup> February2014.
- 13. **Narendra Kohli** and Nishchal K. Verma. Paper entitled "Videoconferencing System using Open Source Technologies". In Proceedings of International Conference on Recent Advances and Future Trends in Information Technologies (iRAFIT-2012), 21<sup>st</sup> -23<sup>rd</sup>, March 2012, Punjabi University Patiala, India.
- 14. Narendra Kohli and Nishchal K. Verma. Paper entitled "SVM based Methods Optimized by Feature Selection for Arrhythmia Classification in ECG" published in the proceedings of the International Conference on Biomedical Engineering and Assistive Technologies (BEATS-2010) during 17<sup>th</sup> -19<sup>th</sup> December 2010, NIT Jalandhar, India.

- 15. **Narendra Kohli**, Nishchal K.Verma and Abhishek Roy. Paper entitled "SVM based Methods for Arrhythmia Classification in ECG". Presented & published in the proceedings of IEEE International Conference on Computer and Communication Technology, pages 486-490, 17<sup>th</sup> -19<sup>th</sup> September 2010, MNIT Allahabad, India.
- 16. Narendra Kohli and Nishchal K.Verma. Paper entitled "Performance Issues of Health Care System using MySQL" presented & published in the proceedings of IEEE International Conference on Computer Science and Information Technology, volume 6, pages 497-501, July 2010, Chengdu, China.
- 17. **Narendra Kohli and** Nishchalk.Verma. Paper entitled "Performance Issues of Health Care System with Audio and Video Facilities" presented & published in the proceedings of International Conference on Data Management, 11<sup>th</sup>&12<sup>th</sup> March 2010, IMT Ghaziabad,India.
- 18. Narendra Kohli and Nishchal K.Verma. Paper entitled "Performance Issues of Smart Card based Online Health Care Automation System" presented & published in the proceedings of International Conference on Signals, Systems & Automation -2009 (ICSSA-2009), 28<sup>th</sup> & 29<sup>th</sup> December 2009, G H Patel College of Engineering & Technology, VallabhVidyanagar, Gujarat,India.
- 19. Anant Ram, Anand S. Jalal, Narendra Kohli, Ashish Sharma. Paper entitled "An Enhanced Density Connected Clustering with Local Subspace Preferences" presented & published in the proceeding of International Conference on Data Management, March 2009, IMT Ghaziabad, India.

## **National Conferences**

1. A. Handa, R. Agarwal and **Narendra Kohli**. Paper entitled "A GIS based Tool for Crime Analysis using Image Analysis and Pattern Recognition: CRIMALYSIS" in the All India Seminar on Reverse Manufacturing organised by The Institution of Engineers (India), Kanpur Local Chapter and Imagineering Laboratory, IIT Kanpur on 24th August, 2019.

- 2. **Narendra Kohli.** Paper entitled "Telemedicine as a means of Employment and skill Development in Youth of rural India" presented & published in 59th annual technical convention of IETE New Delhi on "Make in India product design/IPR in ICTs" during 24<sup>th</sup>& 25<sup>th</sup> September 2016.
- Jaspreet Kaur, Samiya Shakil and Narendra Kohli. Paper entitled "Study of Cyber Security and their Emerging Trends in INDIA" ISBN: 988-96-94898-54-8 published in the proceeding of National Conference at SD College of Engineering & Technology Muzaffar nagar during 25<sup>th</sup>& 26<sup>th</sup> February2017.
- 4. Hifzan Ahmad and Narendra Kohli. Paper entitled "Optimal Deployment of Sensor Nodes in Wireless Sensor Network: A Review" presented & published in the proceeding of National Conference RAICT-2017 ISBN: 978-93-86256-82-9 during March 25-26, 2017 at CSE Deptt. HBTU Kanpur.
- Mayur Rahul, Narendra Kohli and Rashi Agarwal. Paper entitled "Facial Expression Recognition using Hidden Markov Model: A Review" presented & published in the proceeding of National Conference RAICT-2017 ISBN: 978-93-86256-82-9 during March 25-26, 2017 at CSE Deptt. HBTU Kanpur.
- 6. Rajni Kene and Narendra Kohli. Paper entitled "Telemedicine: Integration with Internet of Things (IoT) and Web Services" presented & published in the proceeding of National Conference RAICT-2017 ISBN: 978-93-86256-82-9 during March 25-26, 2017 at CSE Deptt. HBTUKanpur.
- 7. Anand Handa, Rashi Agarwal and **Narendra Kohli**. Paper entitled "Face Detection and Recognition System using Raspberry PI 3 Rover" presented & published in the proceeding of National Conference RAICT-2017 ISBN: 978-93-86256-82-9 during March 25-26, 2017 at CSE Deptt. HBTU Kanpur.
- 8. Pragati Upadhyay and Narendra Kohli. Paper entitled "Discovering Temporal patterns using FP Growth Method incorporated with Special Constraints" presented & published in the proceeding of National Conference RAICT-2017 ISBN: 978-93-86256-82-9 during March 25-26, 2017 at CSE Deptt. HBTU Kanpur.
- 9. Naha Sharma, Rashi Agarwal and **Narendra Kohli.** Paper entitled "Survey of various Web Page Ranking Algorithms" presented & published in the proceeding

- of National Conference RAICT-2017 ISBN: 978-93-86256-82-9 during March 25-26, 2017 at CSE Deptt. HBTU Kanpur.
- 10. Prateek Srivastava and Narendra Kohli. Paper entitled "Paradigm Shift from Traditional to Modern Learning using Information and Communication Technology" ISBN: 978-93-85936-11-1 presented & published in the proceeding of National Conference at SD College of Engineering & Technology Muzaffarnagar during 27th & 28th February2016.
- 11. **Narendra Kohli.** Paper entitled "Green Computing" ISBN: 978-93-84898-54-4 presented & published in the proceeding of National Conference at SD College of Engineering & Technology Muzaffarnagar during 28th & 29th March2015.
- 12. **Narendra Kohli**, Annie Rajoria. Paper entitled "Role of XSEDE in Prediction of Disasters" ISBN: 978-93-84898-54-1 presented & published in the Proceeding of National Conference at SD College of Engineering & Technology Muzaffarnagar during 23<sup>rd</sup>& 24<sup>th</sup> November2013.
- 13. **Narendra Kohli**. Paper entitled "Why People Fail?" Presented as Key Note address in All India Seminar on "Applications for Healthcare, Rural Development and Education", at Sona College of Technology, Salem organized by The Institution of Engineers (India) Salem, TamilNadu during 16<sup>th</sup>& 17<sup>th</sup> August 2013.
- 14. **Narendra Kohli**. "Telemedicine: An Opportunity in Health Care" presented as Key Note address in All India Seminar on "Applications for Healthcare, Rural Development and Education" at Sona College of Technology, Salem organized by The Institution of Engineers (India) Salem, TamilNadu during 16<sup>th</sup>& 17<sup>th</sup> August 2013.
- 15. Swati Tiwari and **Narendra Kohli**. Paper entitled "LTE: The Future of Wireless Technology and its Security Challenges" presented & published in the Proceeding of All India Seminar on Recent Techniques & Future of Information Technology", organized by jointly HBTI Kanpur, IE (I) Kanpur & IE (I) UP State Centre Lucknow during September 22-23,2012.
- 16. Priyanka Pandey, KhushbooTripathi and **Narendra Kohli**. Paper entitled "Impact of Information Technology on Health Care" presented & published in the

- proceeding of All India Seminar on Recent Techniques & Future of Information Technology", organized by jointly HBTI Kanpur, IE (I) Kanpur & IE (I) UP State Centre Lucknow during September 22-23, 2012.
- 17. Khushboo Tripathi and **Narendra Kohli.** Paper entitled "An Overview on Security in Wireless Sensor Mesh Network (WSMN)" presented & published in the proceeding of All India Seminar on Recent Techniques & Future of Information Technology", organized by jointly HBTI Kanpur, IE (I) Kanpur &IE (I) UP State Centre Lucknow during September 22-23, 2012.
- 18. Khushboo Tripathi and **Narendra Kohli**. Paper entitled "Cloud Computing in Education" published in the Proceeding of All India Seminar organized by UP State Centre, IE(I) & IETE, Lucknow during October13-14,2012.
- 19. **Narendra Kohli.** Paper entitled "Telemedicine, PACS and Its Associated Problems" presented & published in the Proceedings of National Seminar of IE (I) UP State Centre Lucknow, February 2008, India.
- 20. Narendra Kohli. Paper entitled "Ethical Hacking" presented & published in the Proceedings of All India Seminar UP State Centre, The Institution of Engineers (I), April 2007, India.
- 21. **Narendra Kohli**. Paper entitled "Impact of Information Technology on Education" presented & published in the Proceedings of Indian Engineering Congress, IEI UP State Centre Lucknow, 2003, India.
- 22. **Narendra Kohli.** Paper entitled "Blue Tooth & Its Future Trends" presented & published in Proceedings of National Seminar organized by CSE Deptt. BBD Engg. College Lucknow, 2003, India
- 23. **Narendra Kohli.** Paper entitled "Digital Signatures" presented & published in Proceedings of All India Seminar jointly organized by NIT Bhopal & "The Institution of Engineers (India)", Bhopal, 2002, India.
- 24. Narendra Kohli. Paper entitled "Quantum Computing" presented & published in Proceedings of National Conference on Quantum Computing organized by Indian Institute of Information Technology & Management Gwalior, 2002, India.

- 25. **Narendra Kohli**. Paper entitled "Information Technology for Sustainable Competitiveness in Economic Field" presented & published in the proceedings of Indian Engineering Congress, IE(I) Chandigarh, 1999,India.
- 26. Narendra Kohli. Paper entitled "A Critical Analysis on Conferencing Technology and Its Proposals" presented & published in Proceedings of National Conference, NIT Surathkal, Karnataka 1996, India.
- 27. Narendra Kohli, Paper entitled "A Critical Analysis of the Scenario of Online Conferencing Technology and Proposals for Further Enhancements" presented & published in Proceedings of All India Seminar, The Institution of Engineers, Lucknow, 1996, India.

### **Ph.D.Supervision**

- Dr. Mayur Rahul, Asstt. Prof. UIET, CSJM Kanpur, completed Ph.D. in 17<sup>th</sup> March 2021 from AKTU Lucknow.
- Title: "Facial Expression Recognition using Modified Hidden Markov Model"
- Dr. Anand Handa, CSE Deptt. IIT Kanpur completed Ph.D. in 13<sup>th</sup> September 2021 from AKTU Lucknow.
  - Title: "Multimodal Recognition system with different Biometric Features"
- Dr. Pragati Upadhaya completed Ph.D. thesis from Uttarakhand Technical University, Hardwar in 25<sup>th</sup> July, 2022.
  - Title: "Enhancing the frequency of Temporal Patterns through Special Constraints"
- Mr. Awanish Kr. Mishra got permission to submit the thesis from HBTU Kanpur.
- Mr. Ifzan Ahmad got permission to submit the thesis from AKTU Lucknow.
- Mr. Amit Yadav got permission to submit the thesis from AKTU Lucknow.
- 10 numbers of PhD students are doing PhD under my supervision from HBTU Kanpur.

## **Editor**

Editor of the Book/ Proceeding of National Conference on "Recent Advances in ICT" (RAICT-2017) ISBN: 978-93-86256-82-9 organized by Computer Science & Engineering Deptt., HBTU Kanpur during March 25-26,2017.

# Reviewed Books/ International Journal / Conference Papers

- 1. Reviewed book entitled "Fundamental of Computers" by Balaguruswami Tata Mc-Graw Hill Education (India) Pvt. Ltd.Noida.
- 2. Reviewed book entitled "Data Communication and Networking" Tata Mc-Graw Hill Education (India) Pvt. Ltd.Noida.
- 3. Reviewed book entitled "Computer Graphics through Open GL" by Sumanta Guha, of Elsevier Publications ,India.
- 4. Reviewed book entitled "Digital Image Processing" of Tata Mc-Graw Hill Education (India) Pvt. Ltd. Noida.
- 5. Reviewer of International Journal of Information & Communication Technology (IJICT).
- 6. Reviewer of IEEE International conferences & International Journals.
- 7. Session Chair, various IEEE International Conferences, National Conferences & National Seminars in India.
- 8. Advisory Committee member of several IEEE International & National Conferences of India.
- 9. Editor in Chief of International Journal of Research Studies in Computer Science and Engineering (IJRSCSE).

### **Invited/Expert Lectures delivered**

- Delivered several Invited/Expert lectures in FDP, International/ National Conferences at various engineering colleges. Few details are as follows:
  - Expert Lecture in National Conference during 27<sup>th</sup>& 28<sup>th</sup> July 2020 at IET,
     Dr. RMLAU, Ayodhya.
  - Invited Talk in TEQIP-III Sponsored one week FDP (SISCT-2020) on
     Feb. 14, 2020 at Rajkiya Engineering College, Sonbhadra

- Expert lecture in IEEE sponsored International conference ICACCA 2019 at CSE Deptt. MJP Rohilkhand University, Bareilly during 29-30 Nov. 2019.
- Theme Speaker at 65<sup>th</sup> IETE foundation day on 2<sup>nd</sup> Nov. 2019 at IETE Kanpur Centre.
- Invited talk in one week National Workshop during 15-19<sup>th</sup> July 2019 at IET, Dr. Rammanohar Lohia Avadh University, Ayodhya.
- Invited Talk in one week FDP on 7<sup>th</sup> July 2019 at Future Group of Institutions, Bareilly.
- Invited Talk in Annual Technical Festival Risonanza on 15<sup>th</sup> & 16<sup>th</sup> March 2019 at ECE Deptt., University of Engineering & Technology, Bikaner, Rajasthan.
- Invited talk in TEQIP-II sponsored short term course on Advances in Machine Learning during Feb. 23 to March 01, 2018 at KNITSultanpur.
- Invited talk in TEQIP-II sponsored short term course on Advances in Computing Technology (ACT-2017) during Feb. 23 to March 01, 2017 at MMMUTGorakhpur.
- Invited talk in 63th IETE Foundation Day on 6<sup>th</sup> Nov. 2016 at AITH, Kanpur.
- Expert lecture in IEEE sponsored International Conference INDIACom-2016 at BVICAM, New Delhi during 16-18<sup>th</sup> March2016.
- Expert lecture in National Convention on "Data Mining Techniques and Recent Trends" during 18<sup>th</sup> & 19<sup>th</sup> Feb. 2016 at Sona College of Technology, Salem, TamilNadu.
- Key note speaker in IEEE sponsored International Conference during 19-20<sup>th</sup> March 2015 at IMS Engineering College, Ghaziabad.
- Expert lecture in IEEE sponsored International Conference MITE-2014 during 19-20<sup>th</sup> December 2014 at Thapar University, Patiala, Punjab.
- Expert lecture in IEEE sponsored International Conference ICSPCT 2014 on 12-13<sup>th</sup> July 2014 at Govt. Engineering College Ajmer,Rajasthan.
- Key note speaker in International Conference ICMC-2014 during 10-11<sup>th</sup>
   July 2014 at BBAU, Lucknow
- Invited talk in Role of Computer in Physics Education at DBS College Kanpur on 5<sup>th</sup> December2013.

- Many more Expert/ Invited Talk at HBTU Kanpur, PSIT Kanpur, KIT Kanpur, AITH Kanpur, IEI Kanpur Centre, IETE Kanpur Centre and various Colleges & schools ofIndia.
- Session Chair in various International conferences (IIT Kanpur, HBTU Kanpur, UPES Dehradun, IEM, Kolkata, Amity University, Noida, BharatiVidyapeeth, New Delhi, Benneet University Greater Noida (Times of India group), TeerthankerMahaveer University, Moradabad etc.) in India.
- Judge in Grand Finale of Smart India Hachathon 2019 (July 8-12, 2019) & Smart India Hachathon 2020 (1-3 August 2020) of MHRD & AICTE New Delhi.
- Coordinator, TCE, Madurai & HBTU Kanpur 36 Hr. Hackathon at TCE Madurai, Tamil Nadu during 27-28<sup>th</sup> January2020.

## **Membership of Professional Bodies**

- Sr. Member IEEE (Membership number:92867650)
- Life Fellow of IETE New Delhi (F116466).
- Life Fellow of IE (India) Kolkatta (F117297-9).
- Chartered Engineer.
- Life member of Institution of Standard Engineers.
- Chairman, The Institution of Engineers (India) Kanpur Local Centre, 2014-16.
- Chairman, IETE Kanpur Centre, 2022-24, 2020-2022 and 2012-2014.
- Honorary Secretary, IETE Kanpur Centre, 2008-10.
- Executive committee member of UP IEEE section of session 2014-15.
- Executive committee member of IEEE CS of India of session 2014-15.
- Executive Committee Member of Computer Engineering, The Institution of Engineers (India) UP State Centre Lucknow from 2004 to 2008.
- Executive Committee Member of Computer Engineering, The Institution of Engineers (India) Kanpur Centre from 1998 to October 2021.

 Executive Committee Member of Computer Engineering, The Institution of Electronics and Telecommunication Engineers (IETE) Kanpur Centre from 1998 to June 2020.

### Workshops / Conferences Organized

- 1. Organized Foundation Day of IETE Kanpur Centre on 2<sup>nd</sup> Nov. 2022 at HBTU Kanpur.
- 2. Organized jointly with IETE Kanpur Centre, IEI Kanpur Local Centre and IEEE UP Section 55<sup>th</sup> Engineers Day during 15<sup>th</sup> September 2022
- Organized jointly with IETE Kanpur Centre, IEI Kanpur Local Centre and IEEE UP Section world Telecommunication Day during 17<sup>th</sup> May 2022
- 4. Participated in webinar on Education for Anyone, Anytime and Anywhere: NEP2020 & Beyond organized by BVICAM, New Delhi during December 2021.
- Organized jointly with IETE Kanpur Centre, IEI Kanpur Local Centre and IEEE UP Section 54<sup>th</sup> Engineers Day on "Engineers for skill development & Employment in Combating Covid" during 15<sup>th</sup> September 2021
- 6. Participated in 4 days online webinar series on Smart Grid, Project Management, Genetic Algorithms, online Learning and Application of Engineering in Practical Life during May 28 to May 31, 2020 organized by Department of Electronics & Communication Engineering, Integral University, Lucknow.
- 7. Participated in webinar on Current Scenario of Cyber Crime & its Safeguards" on 22<sup>nd</sup> May 2020 organized by Innovative Ideas Infotech, Lucknow.
- 8. Attended webinar on "Microsoft Edu-cloud and Digital Transformation" on 12th May 2020 jointly organized by Cloud Education Learning Pvt. Ltd., Microsoft Partner and CSE Department, HBTU Kanpur under TEQIP-III.
- 9. Attended webinar on MATLAB for AI, Machine Learning and Deep Learning April 30, 2020, CSE Department, HBTU Kanpur under TEQIP-III.
- 10. Attended National Seminar on Significant Role of E-education through Social Distancing during Lockdown of Covid-19 Pandemic on 8<sup>th</sup> & 9<sup>th</sup> April 2020 organised by IET, Dr. Rammanohar Lohia Avadh University, Ayodhya, UP, Dr. Ambedkar Institute of Technology, Bengaluru, Karnataka and SPIU, UP.
- 11. Attended webinar ON Computer communication networks lab experiments and R& D using NetsimTM May 20, 2020, CSE Department, HBTU Kanpur under TEQIP-III.
- 12. Attended webinar ON Integrated Development Environment for IoT Applications May 26, 2020, CSE Department, HBTU Kanpur under TEQIP-III.

- 13. Narendra Kohli "A GIS based Tool for Crime Analysis using Image Analysis and Pattern Recognition: CRIMALYSIS" in the All India Seminar on Reverse Manufacturing organised by The Institution of Engineers (India), Kanpur Local Chapter and Imagineering Laboratory, IIT Kanpur on 24th August, 2019.
- 14. Completed 2 weeks course on Digital Transformation in Teaching Learning Process (April 06-22, 2020) organized by NPIU and TEQIP-III at IIT Kanpur.
- 15. Organized as Convener & Chairperson one week Online Faculty Development Programme on "Recent Trends and Advancements in the Era of Machine Learning" during 19<sup>th</sup> July to 24<sup>th</sup> July 2021at CSE Deptt. HBTU Kanpur.
- 16. Organized webinar jointly with CSE Deptt., Incubation Hub, HBTU Kanpur, IETE and IEI Kanpur Centre on World Telecommunication Day during 17<sup>th</sup> May 2021.
- 17. Organized webinar on 'Challenges in Development of Innovative Products in India' at Atal Incubation Hub, HBTU Kanpur during 4<sup>th</sup> July2020.
- 18. Organized Robotics competition BOTARNIVAL on 29th February, 2020 at Atal Incubation Hub, HBTU Kanpur.
- 19. Organizing various lectures & other student startup activities at Incubation Hub, HBTU Kanpur since September 2019.
- Organising Committee member for TEQIP-III sponsored National Conference on Intelligent Computing, Communication and Data Science (NCICCD-2018), during Nov.29-30, 2018, CSE Deptt., HBTUKanpur.
- Organized as Chairman of National Conference on Recent Advances in Information
   & Communication Technologies (RAICT-2017) ISBN: 978-93- 86256-82-9 during
   March 25-26, 2017 at CSE Deptt. HBTUKanpur.
- 22. Programme Coordinator of One Week Staff Development Programme entitled Computer Fundamental & Internet" during 18th Julyto 23<sup>rd</sup>July2016 at CSE Deptt.HBTI Kanpur.
- 23. Programme Coordinator of One Week Faculty Development Programmeentitled "Advance Algorithms in Computing" during 25th January to 30 January 2016 at CSE Deptt. HBTIKanpur.
- 24. Chairperson, student technical festival "Incord-15" entitled "Internet of Things", CSE Deptt. HBTI Kanpur during 11<sup>th</sup>& 12<sup>th</sup> April2015.
- 25. Co-convener of an International Conference entitled "Energy Efficient LED Lighting and Solar Photovoltaic Systems" will be held at IIT Kanpur from 27-29 March 2014

- jointly organized with IIT Kanpur & IETE KanpurCentre.
- 26. Convener, All India Seminar entitled "Recent Techniques & Future of Information Technology" jointly organised with IE (I) Kanpur Centre, IE (I) UP State Centre Lucknow& CSE Deptt. HBTI Kanpur during 22nd & 23<sup>rd</sup> Sep. 2012.
- 27. Organized several Students Workshops (Robotics, Cloud Computing etc.) jointly with IIT Kanpur, The Institution of Electronics & Telecommunication Engineers (IETE) Kanpur Centre and The Institution of Engineers (I) Kanpur Centre.
- 28. Chairperson, Student Technical Festival "INCORD-2012" entitled "Stop Online Piracy Act" at CSE Deptt. HBTI Kanpur during 3<sup>rd</sup>& 4<sup>th</sup> March2012.
- 29. Co-chairperson, Student Technical Festival "INCORD-2010" entitled "Business Intelligence" at CSE Deptt. HBTI Kanpur during 20<sup>th</sup>& 21<sup>st</sup> March2010.
- 30. Organizing Secretary Student Technical Festival "INCORD- 2009" entitled "Next Generation Internet Technology" at CSE Deptt. HBTI Kanpur during 21<sup>st</sup>& 22<sup>nd</sup> February2009.
- 31. Organizing Secretary, Student Technical Festival "INCORD- 2008" entitled "Multi-Core Architecture" at CSE Deptt. HBTI, Kanpur during 23<sup>rd</sup>& 24<sup>th</sup> February 2008.
- 32. Co-Convener, All India Seminars entitled "Cyber Crimes and Security Challenges" organized by "The Institution of Engineers (India)" UP State Centre, Lucknow during 13<sup>th</sup>-15<sup>th</sup> April2007.
- 33. Organizing Secretary, Student Technical Festival "INCORD-2007" entitled "High Performance Computing" at CSE Deptt. HBTI, Kanpur during 18<sup>th</sup>& 19<sup>th</sup> February2007.
- 34. Organizing Secretary, Student Technical Festival "INCORD-2006" entitled "Service Oriented Architecture" at CSE Deptt. HBTI Kanpur during 18<sup>th</sup>& 19<sup>th</sup> February2006.
- 35. Organizing Secretary, Student Technical Festival "INCORD-2005" at CSE Deptt. HBTI, Kanpur during 18<sup>th</sup>& 19<sup>th</sup> February2005.
- 36. Organizing Secretary, Student Technical Festival "WIZCOM-2004" entitled "Recent Trends in Computing Applications" at CSE Deptt. HBTI, Kanpur during 21th & 22<sup>nd</sup> March2004.
- 37. Organized two weeks course entitled "Fundamental of Computers" at CSE Deptt. HBTIKanpur.
- 38. Organized several workshops for undergraduate & postgraduate students of HBTIKanpur.

#### **Courses Attended**

- Attended Summer Training Program on Active Learning for Senior Faculty from June 11 to June 15, 2018 at IITKanpur.
- 2. Attended TEQIP-III sponsored workshop on Outcome based Accreditation for undergraduate Engineering Programs during March 22-23, 2018 organized jointly by HBTU, Kanpur and UPTTI, Kanpur.
- 3. Attended TEQIP-II sponsored workshop entitled "Energy Conservation and Energy Audit in Academic Institutions" during 07-09 March 2017 organized by HBTUKanpur.
- Attended training programme entitled "Project Financing & Strategic Financial Management" organized by National Productivity Council during 26-30 September 2016 atGoa.
- 5. Attended TEQIP-II sponsored workshop entitled "Intellectual Property Rights (IPR) and Patenting" during 27-29 August 2016 organized by HBTUKanpur.
- 6. Attended One Week short term course at CSE Deptt., IIT Guwahati on "Advances in Computer Architecture" during 30<sup>th</sup> May to 3<sup>rd</sup> June2016.
- 7. Attended Knowledge Incubation for TEQIP Summer Intership and Visiting Research Program-2015 during May 10- July 24, 2015 at IITKanpur.
- 8. Attended Three days workshop entitled "Teacher's training of Computer Teacher" at CSE Deptt. IIT Kanpur during 14<sup>th</sup> to 16<sup>th</sup> July 2014 under World Bank ProjectTEQIP-II.
- 9. Attended 2<sup>nd</sup> World Summit on Accreditation (WOSA-2014) entitled "International Recognition of Educational Qualifications" organized by National Board of Accreditation, New Delhi during 2<sup>nd</sup> 4<sup>th</sup> February 2014 at Taj Hotel NewDelhi.
- Attended one week Faculty Development Program during September 2013 at IIM Lucknow, NoidaCentre.
- 11. Attended one week faculty development program entitled "Curriculum Development in Technical Education" during 02/07/13 to 06/07/13 at HBTI Kanpur.
- 12. Attended workshop entitled "Health Monitoring of Automotives" during March 9-10, 2010 at Electrical Engineering Department, IITKanpur.
- 13. Attended winter school on "Speech and Audio Processing Speaker and Language

- Recognition" (WISSAP-09) during  $9^{th} 12^{th}$  January, 2009 organized by EE Deptt. IITKanpur.
- 14. Attended Faculty Training Programme during 29<sup>th</sup>& 30<sup>th</sup> November 2007, organized by Accenture IndiaGurugram.
- 15. Attended short term course entitled "Program Optimization for Multi-Core Architecture" during 2<sup>nd</sup> July 2007 to 7<sup>th</sup> July 2007 at Department of Computer Science & Engineering IIT, Kanpur.
- 16. Attended Faculty Training Programme during 14<sup>th</sup>& 15<sup>th</sup> December 2006 organized by Accenture India, Gurugram.
- 17. Attended International Workshop entitled "Biometrics" during December 1-2, 2006 at CSE Deptt., IITKanpur.
- 18. Attended Faculty Training Programme during 3rd To 4<sup>th</sup> July 2006 organised by Accenture India, Gurugram.
- 19. Attended Workshop on "Rational Suite" during December 21-24, 2005 at CSE Deptt. HBTI Kanpur.
- 20. Attended International Workshop on "Recent Advances in Biometric Systems" during April 15- 16<sup>th</sup>, 2005 at IITKanpur.
- 21. Attended Faculty Training Program on "LINUX Administration" during December 20 -25, 2004 at IIT, Kanpur.
- 22. Attended Faculty Training Program on "Intellectual Property Rights and Patent Information" during 27<sup>th</sup> September to 1th October, 2004 at HBTI Kanpur.
- 23. Attended two weeks Instruction Enhancement Programme on "Visual Basic 6.0 & SQL" during November 25<sup>th</sup> to December 6, 2002 at NTTF Bangalore.
- 24. Attended two weeks winter School on "Data Mining & Knowledge Discovery" during November 19, 2001 to December 1, 2001 at MNREC, Allahabad.
- 25. Attended faculty training program on "Certified Internal Quality Auditor for ISO 9000" during July 24-26, 2000 at HBTI Kanpur.
- 26. Attended two weeks faculty training programme on "Lotus Notes & Domino" June 15<sup>th</sup> 29<sup>th</sup>, 1999 during at IIT Roorkee.
- 27. Attended six weeks Faculty Training Program on "Parallel Processing" during 17<sup>th</sup> June to 27<sup>th</sup> July 1996 at IIT, Mumbai.
- 28. Attended six weeks Faculty Training Program on "Software Engineering" during 8<sup>th</sup> January to 17<sup>th</sup> February 1996 at Jadavpur University, Calcutta.
- 29. Attended six weeks faculty training program on "Operating System Principles"

- during 21st November to 31st December 1994 at IIT, Mumbai.
- 30. Attended six weeks Faculty Training Program on "Computer Graphics" during 2<sup>nd</sup> May to 11<sup>th</sup> June, 1994 at IIT, Mumbai.
- 31. Attended six weeks Faculty Training Program on "Computer Architecture" during 23<sup>rd</sup> November, 1992 to 2<sup>nd</sup> January 1993 at Jadavpur University Calcutta.

# **Others**

- BoG member of Board of Apprenticeship Training (Northern Region).
  - Expert Team Member, National Board of Accreditation, New Delhi.
- Committee Member of Board of Studies (BOS) of Computer Science & Engineering and Information Technology courses of Dr. APJ Kalam Technical University, Lucknow.
- Chairman, Board of Studies, Computer Science & Engineering, HBTU Kanpur.
- Member, Board of Studies, Computer Science & Engineering & Information
   Technology of various universities of India.
- Evaluated Ph.D. thesis of various Universities of India.
- Worked several times as Dy. Coordinator of Admission Counseling of Dr. APJ
   Kalam Technical University, Lucknow at HBTI Kanpur.
- Worked as Observer of Admission Counseling of Dr. APJ Kalam Technical University, Lucknow.
- Working as subject expert for paper setting and other confidential works for Union Public Service Commission, New Delhi
- Working as subject expert for paper setting and other confidential works for Uttarakhand Public Service Commission, Haridwar, Uttarakhand.
- Working as subject expert for paper setting and other confidential works for UP
   Public Service Commission, Allahabad, Uttar Pradesh.
- Expert Committee Member for affiliation of Undergraduate & Postgraduate
   Engineering & Management Courses of Dr. APJ Kalam Technical University,
   Lucknow.
- Expert Committee Member for Accreditations of various courses of NIELIT, New Delhi.
- Expert Committee Member for Accreditations of various courses of Makhanlal

Chaturvedi Vishvidhalaya, Bhopal, MP.

- Delivered different lectures as Visiting Faculty member at various Engineering & Management Colleges of Kanpur.
- Delivered different Expert Lectures at different Engineering & Management Colleges of India.
- Head Examiner of evaluation of end semester examinations of undergraduate and postgraduate courses (B.Tech. and MCA) at various engineering colleges of Dr. APJ Kalam Technical University, Lucknow.
- Paper Setter of various Universities of India
- Examiner & guiding different projects of M.Tech, B.Tech., MCA, DOEACC, A,
   B and C level courses and IGNOU New Delhi.
- Involved in several technical & purchase committees of HBTU (Erstwhile HBTI)
   Kanpur.
- Frequently traveled in China, Hongkong, Singapore.Germany, Poland, Czechoslovakia, Russia, Ukraine, Belorussia and some other European Countries.

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