

Curriculum Vitae



1. Name: B K TRIPATHI

2. Present Position : *Professor*
Department of Computer Science & Engineering,
H B Technical University, Kanpur – 208002

3. Contact Address :
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(HBTI Colony), KANPUR, Pin : 208002,

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4. Academic Record :

B Tech	Computer Science and Engineering	H B T I, Kanpur
M Tech	Computer Science and Engineering	I I T, Delhi
PhD	Computational Intelligence	I I T, Kanpur

5. Honors and Recognitions :

Ø Cash award of Rs. 20,000/- by IIT Kanpur for publication of two research papers in referred international journals (indexed in SCI) in year 2010.

Ø Selected Assistant Professor in Computer Engineering at I I T Roorkee in year 2010.

6. Areas of specialization: *Computational Intelligence, High Dimensional Neurocomputing, Biometrics, Soft Computing, 2D & 3D Imaging, I C A in complex domain.*

7. Current Area of research: Intelligent System Design, Multi-model Biometrics, 2D/3D Imaging, Computer Vision, Hybrid Computing.

8. Membership :

- Marquis Who's Who (30th 2013 Edition) in the World.
- Int. Computational Intelligence Society, Task Force on Complex-Valued Neural Networks.
- Technical Program Committee :
 - Soft Computing
 - IEEE ISSNIP 2014 – Cognitive Computing in Information Processing.
 - International Workshop on Cognitive Computing and Applications (COGNITIVE-2014).
- M Tech and PhD thesis examiner in different Universities and IIIT.
- *Reviewer:* IEEE Transactions on Neural Networks and Learning System.
IEEE Transactions on Information Forensics & Security.
IEEE Transactions on Industrial Informatics.

List of Publications in Last 05 Years

Book Chapters :

1. B K Tripathi et al, "An Evolutionary Fuzzy Clustering with Minkowski Distances", LNCS vol. 7063, pp753–760, ISBN 978-3-642-24957-0,(Eds: Lu, Zhang & Kwok), Springer-Verlag Heidelberg 2011.
2. B K Tripathi et al, "High Dimensional Neural Networks and Applications", *Book Title: Intelligent Autonomous Systems*, SCI 275, pp 215–233, (Eds.: D.K. Pratihari and L.C. Jain), ISBN 978–3–642–11675-9, © Springer Berlin, 2010.
3. B K Tripathi et al, "Generalized Product Neuron Model in Complex Domain", *Book Title: Advances in Neuro-Information Processing*, pp 867-876, vol 5507, ISBN 978-3-642-03039-0, (Eds: Mario Köppen, Nikola Kasabov, George Coghill) © **Springer** Berlin, 2009.

Refereed International Journals (Peer-reviewed) :

1. **B K Tripathi et al**, "On Efficient Learning Machine with Root Power Mean Neuron in Complex Domain", vol 22, no 05, pp 727-738, ISSN:1045-9227, **IEEE Transaction** on Neural Network, May 2011.
SCI indexed, *IF* : **3.726** ©Thomson Reuters Journal Citation
2. **B K Tripathi et al**, "On the Learning Machine for Three Dimensional Mapping", vol 20, no 01, pp 105-111, ISSN 0941-0643, Neural Computing & Applications, **Springer**, Feb. 2011.
SCIE indexed, *IF* : **1.763** ©Thomson Reuters Journal Citation
3. **B K Tripathi et al**, "Periocular Biometric Recognition Using Supervised Fuzzy Clustering", vol 3, no 4, pp 389–392, Int. J of Machine Learning & Computing, ISSN: 2010-3700, Aug 2013.
4. **B K Tripathi et al**, "The Novel Aggregation Function Based Neuron Models in Complex Domain", vol 14, no 10, pp. 1069 - 1081, ISSN 1432-7643, Soft Computing, **Springer**, August 2010.
SCIE indexed, *IF* : **1.88** ©Thomson Reuters Journal Citation
5. **B K Tripathi et al**, "A Novel Hybrid intelligent Model for classification & Pattern Recognition Problem", ISSN 1947-5500, vol 10, no 02, pp 55-63, Int. J. CS & Information Security (**IJCSIS**), Feb 2012.
"Selected for the 'Best Paper' Category" *IF* : 0.423
Journal is indexed in ESCI - IP & Science - Thomson Reuters - Web of Science
6. **B K Tripathi et al**, "Complex Generalized-Mean Neuron Model and its Applications", vol 11, no 01, pp 768 -777, DOI: 10.1016/j.asoc.2009.12.038, Applied Soft Computing, **Elsevier Science**, Jan. 2011.
SCIE indexed, *IF* : **3.22** © Thomson Reuters Journal Citation.
7. **B K Tripathi et al**, "Evolutionary Fuzzy Clustering & Parallel Neural Networks based Human Identification ..", vol. 31, no. 07, pp. 01-07, Int. Journal of Computer Applications (**IJCA**), ISSN 0975-8887, October 2011, New York, USA. *Impact Factor* : **0.814**

8. **B K Tripathi et al**, “Evolutionary Fuzzy Clustering and Functional Modular Neural Networks Based Human Recognition”, vol 2, no 01, pp 411-419, Neural Computing and Applications, ISSN 0941-0643, **Springer**, May 2013 .
SCIE indexed, I F : **1.763** ©Thomson Reuters Journal Citation
9. **B K Tripathi et al**, “Biometric Recognition by Hybridization of EFC with Functional NN”, Int. Journal of Ambient Intelligence & Humanized Computing, ISSN 1868-5137, vol 5, no 4, pp 525–537, **Springer**, 2014.
Source Normalized Impact per Paper (SNIP) : 1.048
10. **B K Tripathi et al**, “Identification and in silico observation of potential biomarkers in breast cancer region using bioinformatics approaches”, ISSN: 2320-0634, International Journal of Computational Bioinformatics and In Silico Modeling vol 2, no 4, pp 147-151, July 2013.
eSci indexed Index Copernicus Value (ICV) : 5.09
11. **B K Tripathi et al**, “Hybrid Intelligent Model based on evolutionary fuzzy clustering & syndicate NN”, vol 27, no 2, pp 104-125, Int. J. of Applied Artificial Intelligence, ISSN 0883-9514, **Taylor & Francis**, Jan 2013.
SCIE indexed, I F : 0.53 ©Thomson Reuters Journal Citation
12. **B K Tripathi et al**, “On the investigation of biological phenomena through computational intelligence”, ISSN 2330-8265, vol 2, no 2, pp 19-24, **Computational Biology and Bioinformatics**, Science PG **2014**.
Indexed in Polish Scholarly Bibliography and Research Bible.
13. **B K Tripathi et al**, “Hybrid computation model for intelligent system design by synergism of modified EFC with neural network”, ISSN: 0219-6220, vol 14, no 1, pp 17-41, **International Journal of Information Technology & Decision Making**, **World Scientific**, January 2015.
SCIE indexed, I F : 1.89 ©Thomson Reuters Journal Citation
14. **B K Tripathi et al**, “Modelling of Threat Evaluation for Dynamic Targets Using Bayesian Network Approach”, pp 1268–1275, Volume 24, 2016, **Procedia Technology**, Elsevier.

International Conference / World Congress :

1. **B K Tripathi et al**, “On the synergism of evolutionary neuro-fuzzy system”, IEEE World Congress on Computational Intelligence (**WCCI-2016**), July 24-29, 2016, **Vancouver, Canada**.
2. **B K Tripathi et al**, “Neurological Disorder Identification by Eye Movement Biometric using Machine Learning Schemes”, ISBN 978-1-63248-073-6, ACCN-2015 (Int Conf on Advances in Computing, Control & Networking) **Bangkok, Thailand 28-29 August, 2015**.
3. **B K Tripathi et al**, “Human recognition based on Occulo-motion Characteristics”, IEEE Xplore, ISSN 2153-0025, ISBN 978-1-4673-5940-5, 9-12 Sept. **AFRICON 2013, Mauritius**.
4. **B K Tripathi et al**, “On the Intelligent Machine Learning in Three Dimensional Space and Applications”, ISSN 1865-0929, Communications in Computer & Information Science (CCIS) Vol 311, pp 375-384, ISBN 978-3-642-32908-1, Sept 20-23, **EANN 2012, London, U K**.

5. **B K Tripathi et al**, “Modeling of Threat Evaluation for Dynamic Targets using Bayesian Network Approach” International Conference on Emerging Trends in Computing (ICETIC – 2015), Dec 09-11, 2015, Thrissur, Kerla.
6. **B K Tripathi et al**, “Periocular Biometric Recognition Using Supervised Fuzzy Clustering”, IEEE Int. Conf on Electronics & Computer Tech. (**ICECT 2012**), April 06-08, 2012, Kanyakumari, *India*
7. **B K Tripathi et al**, “An Evolutionary Fuzzy Clustering with Minkowski Distances”, (**ICONIP-11**), ISBN 978-3-642-24957-0, November 13-17, 2011, *Shanghai, China*.
8. **B K Tripathi et al**, “Functional Mapping with Complex Higher Order Compensatory Neuron Model”, IEEE Xplore, ISSN 1098-7576, ISBN 978-1-4244-6916-1, World Congress on Computational Intelligence (**WCCI-2010**), July 18-23, *Barcelona, Spain*.
9. **B K Tripathi et al**, “The Generalized Product Neuron Model in Complex Domain”, ISBN 978-3-642-03039-0, 15th Int. Conf. On Neural Information Processing (**ICONIP-08**), Nov. 25-28, 2008, *Auckland, New Zealand*.
10. **B K Tripathi et al**, “Learning Machine using Heterogeneous Neurons with High Dimensional Parameters”, IEEE Xplore, Int. Conf. on **SoSE-07**, April 16-18, 2007, ISBN 1-4244-1159-2, San Antonio, *Texas USA*.
11. **B K Tripathi et al**, “A complex-valued heterogeneous neural network”, Int. joint conference on artificial intelligence (Workshop **IJCAI-07**), 06-12 January 2007, Hyderabad, India.
12. **B K Tripathi et al**, “Learning Machine with three dimensional vector valued neural network”, XXXI National Systems Conference -- 07, Dec 14-15, 2007, Manipal (India).
13. **B K Tripathi et al**, “Second generation neural network for two dimensional problems”, 2nd ICGCET-16, **Denmark**.

Important Conferences Attended:

- Int. Conf on Engineering Application of Neural Network, 20 – 23 September, 2012, **London UK**.
- Engineering & Science innovation summit 2012, National Instruments (**NI**), May-12, Kanpur, India.
- IEEE Int. Conf. on Electronics & Computer Technology, April 06-08, 2012, Kanyakumari, India.
- World Congress on Computational Intelligence (IEEE WCCI – 2010), July 18-23, 2010, *Barcelona, Spain*.
- International Conference on Neural Information Processing (ICONIP -- 2008), November 25-28, 2008, *Auckland, New Zealand*.
- International Joint Conference on Artificial Intelligence (IJCAI -- 2007), January 06-12, Hyderabad, India. (Supported by Asian Development Fund & IIT Kanpur)
- MEDC conference, organized by Microsoft, Bangalore, April 04-06, 2006. (Supported by Microsoft)
- High performance computing, organized by HP and IIT Kanpur, September 2006.
- Workshop on ‘Designing course for Soft Computing’, org. by AICTE and IIT Kanpur, July, 2003.