

CURRICULUM VITAE



Jyoti Singh Kirar

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DOB: 04/Mar/1990

Current Research Area

Brain Computer Interfaces, Pattern Recognition, Machine learning, Signal Processing, Deep Learning

Ph.D Thesis Title:

Relevant Channels And Spatio-Spectral Features For Motor Imagery Brain Computer Interfaces

Guide's Name: Prof. R. K. Agrawal

University: Jawaharlal Nehru University, New Delhi

Professional Recognition/ Award/ Prize/ Certificate, Fellowship received

S.No	Name of Award	Awarding Agency	Year
1.	GATE	AICTE	2014,2012,2011
2	UGC-JRF/NET	UGC	Dec 2013
3	Best Poster Award	AIISH Mysore	2017
4	Student fellowship of Rs 12000 at PREMI 2017	Flytxt	2017
5	Student Fellowship GHCI	Grace Hopper Celebration India	2014, 2016, 2017

Academic Qualification

S.No.	Degree	Year	Subject	Institution/ University	%of marks
1.	B.E.	2012	Computer Science and Engineering	R.G.P.V. , Bhopal	77.5%
2.	M.Tech	2014	Computer Science and Technology	Jawaharlal Nehru University, New Delhi	8.06/9 CGPA
3.	Ph.D	2018	Computer Science	Jawaharlal Nehru University, New Delhi	NA

Work experience

S.No.	Position Held	Name of the Institute	From	To
1	Assistant Professor	Shiv Nadar University, U.P.	2/jan/2018	Till Date

Journal Publications:

- Jyoti Singh Kirar & R.K.Agrawal, "Composite Kernel Support Vector Machine based Performance Enhancement of Brain Computer Interface in Conjunction with Spatial Filter", 2017, Biomedical Signal Processing and Control, 33,151-160, Elsevier IF: 2.987.
- Jyoti Singh Kirar & R.K.Agrawal" Relevant Feature Selection from a Combination of Spectral-Temporal and Spatial Features for Classification of Motor Imagery EEG" ,2018, Journal of medical systems, 42(5), p.78, IF: 2.451
- Jyoti Singh Kirar & R.K.Agrawal. A combination of spectral graph theory and quantum genetic algorithm to find relevant set of electrodes for motor imagery classification. 2019. Applied Soft Computing, 105519. IF: 4.781
- Gupta A, Agrawal RK, Kirar J S, Kaur B, Ding W, Lin CT, Andreu-Perez J, Prasad M. A hierarchical meta-model for multi-class mental task based brain-computer interfaces. 2019, Neurocomputing. IF: 4.072
- Gupta, A., Agrawal, R. K., Kirar, J. S., Andreu-Perez, J., Ding, W. P., Lin, C. T., & Prasad, M."On the Utility of Power Spectral Techniques With Feature Selection Techniques for Effective Mental Task Classification in Noninvasive BCI" 2019, IEEE Transactions on Systems, Man, and Cybernetics: Systems. IF: 7.351

International conference Publications:

- Jyoti Singh Kirar & R.K.Agrawal, "Optimal Spatio-Spectral Variable Size Subbands Filter For Motor Imagery Brain Computer Interface", 2016, Procedia Computer Science, 84, 14-21, Elsevier
- Akshansh Gupta & Jyoti Singh Kirar, "A novel approach for extracting feature from EEG signal for Mental Task Classification", International Conference on Computing and Network Communications (CoCoNet'15), 2015, IIITM Kerela, India.
- Jyoti Singh Kirar, Ayesha Choudhary & R. K. Agrawal, "Selection of Relevant Electrodes based on Temporal Similarity for Classification of Motor Imagery Tasks" In International Conference on Pattern Recognition and Machine Intelligence (pp. 96-102). Springer, Cham 2017
- Jyoti Singh Kirar & R.K.Agrawal, " Relevant Frequency Band Selection using Sequential Forward Feature Selection for Motor Imagery Brain Computer Interfaces", 2018, IEEE SSCI, 2018

Book Publication

- Jyoti Singh Kirar, "Optimal SpatioSpectral Filters For MI based Brain Computer Interfaces", LAP LAMBERT Academic Publishing, 2017

Refree 1		Refree 2		Refree 3	
Name	Prof R K Agrawal	Prof D P Vidyarthi		Prof K K Bharadwaj	
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