

STAFF PROFILE



Dr. Surekha K S

Professor

Electronics & TeleCommunication

surekhaks@aitpune.edu.in

Date of Joining

01/01/1999

Nature of Appointment

Regular

Educational Details

Qualification	Degree	University	Grade	Year
Graduation	BE , E&C	Mysore	Distinction	1985
PG	ME, E&Tc	Pune	First class	1992
Doctoral	Ph.D.	SPPU, Pune		2018

Areas of Interest

Experience Details

Type	Duration/ Period	Designation/ Organisation Name	Brief Job Profile
Total : 38.00 years	Teaching : 38.00 years	Research : 0.00 years	Industry : 0.00 years
Educational	7.00 Years 1989-1997	Lecturer DY Patil College of Engineering	Teaching
Educational	11.00 Years 1997 - 2009	Asst. Prof Army Institute of Technology	Teaching
Educational	10.00 Years 2009-2019	Associate Prof Army Institute of Technology	Teaching , Worked as HoD and I/c Principal
Educational	10.00 Years 2019-till date	Professor Army Institute of Technology	Teaching

Journal Publications

1. K.S. Surekha, (2019). Hybrid Technique for ECG signal compression using Parallel and Cascade method. *Biomedical Engineering:Applications, Basis and Communications*. 31(1), 1950008-1 to 1950008-8. ISBN/ ISSN No : 1016:2372.
2. Surekha KS, B P Patil, (2019). [HYBRID TECHNIQUE FOR ECG SIGNAL COMPRESSION USING PARALLEL AND CASCADE METHOD](#). *Biomedical Engineering: Applications, Basis and Communications*. 31(1), 1950022-1-1950022-8. ISBN/ ISSN No : 1016-2372. URL : <https://www.worldscientific.com/doi/10.4015/S1016237219500224>.
3. Surekha KS, B P Patil, (2019). [Power Line Interference Removal from Electrocardiogram Signal Using Multi-Order Adaptive LMS Filtering](#). *International Journal of Biomedical Engineering and Technology*. - (-), In press (ESCI and Scopus indexed). ISBN/ ISSN No : ISSN online: 1752-6426 ISSN print: 1752-6418. URL : <https://www.inderscience.com/jhome.php?jcode=ijbet>.
4. Ms. Surekha K S, B P Patil, (2018). ECG Signal Compression using Parallel and Cascade method for QRS complex. *Indian journal of Science & Technology*. 11(1), 1-6. ISBN/ ISSN No : 0974-6846.
5. Ms. Surekha K S, B P Patil, (2017). Hybrid Compression Technique Using Linear Predictive Coding for Electrocardiogram Signals. *International Journal of Engineering Technology Science and Research(UGC approved)*. 4(6), 497-500. ISBN/ ISSN No : ISSN 2394 – 3386. URL : www.IJETS.com.
6. Ms. Surekha K S, B P Patil, (2016). [Transform Based Techniques for ECG Signal Compression](#). *International Journal of Applied Engineering Research(SCOPUS Indexed)*. 11(9), 6139-6143. ISBN/ ISSN No : 1087-1090. URL : <http://www.ripublication.com>.
7. Ms. Surekha K S, B P Patil, (2016). ECG signal compression using the high frequency components of wavelet transform. *International Journal of Advanced Computer Science and applications(ESCI Indexed journal)*. 7(3), 311-315. ISBN/ ISSN No : 2156-5570. URL : www.thesai.org.
8. Ms. Surekha K S, (2010). Implementation of RSA Algorithm on FPGA. *International Journal on Computer Engg. & Information Tech(Special Edition)*. 17(22), 4-7. ISBN/ ISSN No : 0974-2034.

Conference Publications

1. Surekha KS, BP Patil, (2017). Hybrid compression technique using Linear predictive coding for electrocardiogram signals. *International conference on Advancement in Engineering, Applied Science and Management*. -(-), 1-4. ISBN/ ISSN No : 2394-3386.
2. Surekha K S, (2017). Real time DSP based ECG acquisition and transmission using CUDA based compression. *Regional Conference by BCUD, SPPU*. -(-), -. ISBN/ ISSN No : -.
3. Ms. Surekha K S, B P Patil, (2014). ECG signal compression using hybrid 1D & 2D wavelet Transform. *IEEE XPLORE*. --(--), 468-472. ISBN/ ISSN No : Print ISBN: 978-0-9893-1933-1 .
4. Ms. Surekha K S, B P Patil, (2014). ECG signal compression using hybrid 1D & 2D wavelet Transform. *Science & Information Conference(SAI) 2014(SCOPUS INDEXED)*. --(--), 468-472. ISBN/ ISSN No : 978-0-9893193-1-7(ISBN).
5. Ms. Surekha K S, B P Patil, (2013). [QRS Complex Compression of ECG signal using Hybrid Transform](#) . *Fifth International Conference on Advances in Recent Technologies in Communication and Computing (ARTCom 2013)*. ---(--), 261-266. ISBN/ ISSN No : Print ISBN: 978-1-84919-842-4 .
6. Surekha KS, (2012). Compression for ECG signals using Transform technique & R-R interval detection. *National Conference on Electronic technologies (NCET'10)*. -(-), 236 – 238. ISBN/ ISSN No : -.

Book Chapters

1. Surekha KS, BP Patil, (2014). [Compression of ECG signal technique](#). *Intelligent Systems in Science and Information 2014*. Springer. ISBN/ ISSN No : 978-3-319-14653-9.
2. B P Patil, Surekha KS, (2014). [Compression of ECG signal technique](#). *Compression of ECG signal technique*. Springer International Publishing. ISBN/ ISSN No : 978-3-319-14653-9.

Books

1. Surekha K S, (2018). *Digital Signal processing*. Nirali. ISBN/ ISSN No : 978-93-88293-28-0.

Research Grants

Title Of Project	Funding Agency	Duration		Sanctioned Amount	Role of Investigator
Real time DSP based ECG (Electrocardiogram) acquisition and transmission using CUDA based compression	BCUD, SPPU	01/11/2016	01/04/2019	160000.00	Principal Investigator
To develop a new efficient compression algorithm for ECG signals	BCUD, SPPU	01/07/2011	30/04/2013	100000.00	Principal Investigator

Consultancy

Title Of Project	Funding Agency	Duration	Sanctioned Amount	Investigator Role
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Professional Memberships

Society	Membership No	Duration	
IETE	165641	30/10/2003	30/10/2030
ISTE	LM9188	01/08/1991	30/10/2030

Achievements/ Contribution

Year	Details
2013	Best Teacher award at AIT

No of PhD Students Guided : 0 **No of PG Students Guided** : 0
No of PhD Awarded Students : 0