


## Detailed Bio Data

Name of the faculty	R. Ramunaidu		
Designation	Assistant professor		
Department	Mathematics		
Date of Joining the Institute	05/07/2018		
University / Institute	<b>UG</b>	<b>PG</b>	<b>Ph.D. (Title)</b>
	Andhra University	University of Hyderabad	Indian Institute of Technology, Hyderabad. Specialization: Sparse Representation Theory. Thesis title: Deterministic dictionaries for sparse representation: construction and applications.
Total Experience in years (Post Ph.D)	<b>Teaching</b>	<b>Research</b>	<b>Industry</b>
	NA	2Y 7M	NA
Paper Published	<b>National</b>		<b>International</b>
	NA		4
Conference Attended	<b>National</b>		<b>International</b>
	1		2
Details of Research work/Area	<ul style="list-style-type: none"> <li>• Sparse representation theory</li> <li>• Frame Theory</li> <li>• Phase retrieval</li> </ul>		
Book Published/IPRS/Patents	NA		

Professional Membership	NA
Awards	<ul style="list-style-type: none"> <li>• Qualified Graduate's Aptitude Test for Engineering (GATE) in Mathematics in 2009.</li> <li>• Qualified CSIR-UGC JRF in Mathematics in 2009.</li> <li>• Qualified CSIR-UGC SRF in Mathematics in 2012.</li> <li>• Dr. K.V. Rao Scientific Society Young Scientist Award in Mathematics in 2013.</li> <li>• Selected for NBHM support towards participating in ICIAM 2015, Beijing, China.</li> <li>• Selected for NBHM Postdoctoral fellowship in 2015.</li> <li>• Selected for Technion-Israel Postdoctoral fellowship in 2017.</li> </ul>
Grants Fetched	NA
Contact Information (Email)	ramhcu10@gmail.com

## **List of Publications:**

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Journal Publications:

1. R. Ramu Naidu, P. V. Jamapana and C. S. Sastry, "Deterministic compressed sensing matrices: Construction via Euler Squares and applications", IEEE Transactions on Signal Processing, vol. 64, no. 14, pp. 3566 - 3575, 2016. (IF: 4.3)
2. R. Ramu Naidu and Chandra R. Murthy, "Construction of binary sensing matrices using extremal set theory," IEEE Signal Processing Letters, vol. 24, no.2, pp. 211-215, 2017. (IF: 2.52)

3. M. Srinivas, R. Ramu Naidu , C. S. Sastry and C. Krishna Mohan, "Content based medical image retrieval using dictionary learning," *Neurocomputing Elsevier Journal*, vol. 168, pp. 880 - 895, 2015. (IF: 3.31)
4. Pradip Sasmal, R. Ramu Naidu and C. S.Sastry and P. V. Jamapana, "Composition of binary compressed sensing matrices," *IEEE Signal Processing Letters*, vol. 23, no. 8, pp. 1096-1100, 2016. (IF: 2.52)

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Conference Presentations:

1. R. Ramu Naidu, P. V. Jamapana and C. S. Sastry, "Multivariable polynomials for the construction of binary sensing matrices," In Proc. of CMCGS 2014 (Springer), Singapore 1-2, February 2014.
2. R. Ramu Naidu, "Construction of sparse binary sensing matrices using Set Systems," In Proc. of ICRTMAA 2014 (Springer).
3. M. Srinivas and R. Ramu Naidu, "Sparse approximation of over-determined system for image retrieval application," In Proc. of ICRTMAA 2014 (Springer).
4. R. Ramu Naidu, C. S. sastry and P. V. Jamapana, "A remark on binary sensing matrices," Poster presented in ICIAM, Beijing, China -2015.