

Dr. Bijit Kumar Das

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About

Hello, welcome to my home page. I am an Assistant Professor in the Department of Electronics and Communication Engineering at Indian Institute of Information Technology, downshall. I joined IIITG in July, 2018. Prior to that, I did PhD from IIT Kharappur (Fleat of awarding PhD degree: 2018). I obtained the M.S. degree from the Department of E.B.E.C.Engg., IIT Kharappur in 2011, and the B.E. in E.STIC. From Bengal Engineering and Science University Shippur (currently, Indian Institute of Engineering) Science Technology Shippur) in 2007.

Research Interests

Adaptive Signal Processing, Sparsity Aware Adaptive Filters, Distributed Adaptive Filtering / Adaptive Networks, Signal Processing for Digital Communication, Signal Processing for Audio and Acoustic Applications and some

Teaching

At IIITG, currnetly I am teaching the following courses:

Publication

Conference

- Deep M. Baruah, S. Senchowa, and Bijit Kumar Das, "An Improved Adaptive Multi-microphone Noise Reduction Algorithm Preserving Binaural Cues in Hearing Aids", IEEE 2023 World Conference on Communication & Computing (WCONF), (2023), IEEE
- Bijit Kumar Das, "Low SNR Spatially Sparse Channel Estimation in Millimeterwave Hybrid MIMO Systems based on Adaptive Filtering Framework", IEEE Applied Signal Processing Conference (ASPCON), (2020),
- Bijit Kumar Das, Arpan Mukherjee, Mrityunjoy Chakraborty, "Block-Sparsity-Induced System Identifica using Efficient Adaptive Filtering", National Conference on Communications (NCC), (2020), pages. 1-6.
- Bijit Kumar Das, Arpan Mukherjee, "Improved Sparsity Aware Collaborative Spectrum Estimation for Small Cell Networks", IEEE Calcutta Conference (CALCON), (2020), pages. 338-341,
- Rajarshi Saha, Bijit Kumar Das, and M. Chakraborty, "Sparsity Aware Fast Block LMS Algorithms for MIMO Radar Imaging", IEEE International Workshop on Signal Processing Systems (SiPS), (2018), pages. 217-222, Capetown, South Africa
- Bijit Kumar Das, S. Mukhopadhyay, and M. Chakraborty, "Robust Adaptive Filtering via Convex Combination
 of LO-RLS Adaptive Filters", IEEE International Symposium on Circuits and Systems (ISCAS), (2018), Florence Italy. Proceedings of ISCAS
- Bijit Kumar Das and Mrityunjoy Chakraborty, "A Block-Based Convex Combination of NLMS and ZA-NLMS for Identifying Sparse Systems with Variable Sparsity", IEEE International Symposium on Circuits and Systems (BCLS), 2017, Baltimore, My U.SA. Proceedings of ISCAS
- Bijit Kumar Das and Mrityunjoy Chakraborty, "A New Diffusion Sparse RLS Algorithm with Improved Convergence Characteristics", IEEE International Symposium on Circuits and Systems (ISCAS), (2016), Montreal, Canada. Proceedings of ISCAS
- Bijit K. Das, Mrityunjoy Chakraborty, and Jeronimo Arenas-Garcia, "Sparse Distributed Learning via Heterogeneous Diffusion Adaptive Networks", IEEE International Symposium on Circuits and Systems (ISCAS), (2015), Lisbon, Portugal. Proceedings of ISCAS
- Bijit K. Das, Luis A. Azpicueta-Ruiz, Mrityunjoy Chakraborty, Jeronimo Arenas-Garcia, "On Steady State Tracking Performance of Adaptive Networks", IEEE International Conference on Digital Signal Processing (DSP), (2015), Singapore, Proceedings of DSP.
- Bijit K. Das , Luis A. Azpicueta-Ruiz, Mrityunjoy Chakraborty, and Jeronimo Arenas-Garcia, "A Compactudy of Two Popular Families of Sparsity-Aware Adaptive Filters", International Workshop on Cogniti Information Processing, Copenhagen, Denmark, (2014), Proceedings of CIP
- Bijit Kumar Das, Rajib Lochan Das, and Mrityunjoy Chakraborty, "Multi Stage Adaptive Filter for Identification
 of the Systems with Variable Sparsity", IEEE National Conference on Communications, (2013), Proceedings of
- Rajib Lochan Das, Bijit Kumar Das, and Mrityunjoy Chakraborty, "Improving the Performance of the LMS Algorithm Via Cooperative Learning", IEEE National Conference on Communications 2013 Proceedings of NCC, (2013).
- Bijit Kumar Das, Mrityunjoy Chakraborty, and Soumitra Banerjee, 'Adaptive Identification of Sparse Systems with Variable Sparsity', IEEE International Symposium on Circuits and Systems (ISCAS), Rio de Janeiro, Brazil, (2011), pages, 1267 1270, Proceedings of ISCAS 2011
- Identification of Sparse Systems with Variable Sparsity", Asia Pacific Siganl & Information Proc Association: Annual Summit and Conference, Xian, China, (2011), Proceedings of APSIPA2011
- Bijit Kumar Das and Mrityunjoy Chakraborty, "Sparse Least Mean Square Algorithm for Estimation of Tiruncated Volterra Kernels", Asia Pacific Sigani & Information Processing Association: Annual Summit and Conference, Annual Summit and Conference, Biopolis, Singapore, (2010), Proceedings of the APSIPA2010

- G. V. Chakravarthi, Bijit Kumar Das, and M. Chakraborty, "An Adaptive Convex Combination of APA and ZA-APA for Identifying Systems having Variable Sparsity and Correlated Input", Digital Signal Processing, Vol. 82 (2018), pages. 118-132, Elsevier
- Bijit Kumar Das and Mrityunjoy Chakraborty, "Improved LO-RLS Adaptive Filter", (IET) Electronics Letters, Vol. 53, No. 25, (2017), pages. 1650 1651,
- Bijlt Kumar Das, G. V. Chakravarthi, and M. Chakraborty,, "A Convex Combination of NLMS and ZA-NLMS for Identifying Systems with Variable Sparsit', IEEE Transactions on Circuits and Systems II Express Briefs, Vol. 64, No. 9, (2017), pages. 1112 1116.
- Bijit Kumar Das, Mrityunjoy Chakraborty, and Jeronimo Arenas-Garcia, "Sparse Distributed Estim Heterogeneous Diffusion Adaptive Networks", IEEE Transactions on Circuits and Systems II Expre 63, No. 11, (2016), pages. 1079-1083,





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