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Expertise

Telecommunications

Working with Free space optical communication, B5G or 6G, IRS assists wireless communication systems.

Work experience

1. Haldia Institute of Technology 2010 — Present

Assistant Professor
Purba Medinipur

Education

1. PhD - 2024

Jadavpur University

Publication

1. The Combined ECC Scheme with Outer 3-Bit BEC and Inner SEC-DAEC Codes for FSO Communication System

'Raj Kumar Maity , Akinchan Das , Jagannath Samanta , Jaydeb Bhaumik '

Proceedings of Third International Conference on Advanced Computing and Applications, Volume , Year 2024, Pages '49--63 '

2. **Channel Capacity for IRS-assist Wireless Communication System for 5G and Beyond**

Moumita Jana, Akinchan Das, Sanjay Kumar

2023 IEEE 3rd Applied Signal Processing Conference (ASPCON), Volume , Year 2023, Pages 55-60

3. **Performance analysis of FSO links employing a transmit and receive diversity-based operating system under Malaga turbulence channels with pointing errors**

A. Das, B. Bag, C. Bose and A. Chandra

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4. **ABER of an FSO Link in Gamma-Gamma Turbulence with SSK and SEC**

Akinchan Das ., Banibrata Bag ., Chayanika Bose ., Aniruddha Chandra .,

IEEE Vehicular Technology Conference, Volume 2021-April, Year 2021

5. **Improving the performance of a DF relay-aided FSO system with an additional source-relay mmWave RF backup**

Banibrata Bag ., Akinchan Das ., Chayanika Bose ., Aniruddha Chandra .,

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6. **Link Quality of a RF-assisted Relayed FSO System under Turbulence, Pointing Error and Fading**

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7. **Málaga turbulence channels with transmit and receive diversity**

Akinchan Das ., Banibrata Bag ., Chayanika Bose ., Aniruddha Chandra .,

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8. **Hybrid FSO/RF-FSO systems over generalized Málaga distributed channels with pointing errors**

Banibrata Bag ., Akinchan Das ., Chayanika Bose ., Aniruddha Chandra .,

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9. **Performance Analysis of FSO Links in Turbulent Atmosphere**

B. Bag, A. Das, C. Bose and A. Chandra

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10. **Performance analysis of MIMO FSO link with Alamouti coding and switch-and-examine combining**

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11. **Performance analysis of hybrid FSO systems using FSO/RF-FSO link adaptation**
 Bag B.;Das A.;Ansari I.;Prokes A.;Bose C.;Chandra A.
 IEEE Photonics Journal, Volume 10, Year 2018
12. **Capacity analysis for Rayleigh/gamma-gamma mixed RF/FSO relayed transmission**
 Bag B.;Das A.;Chandra A.
 Proceedings of the 2017 International Conference on Wireless Communications, Signal Processing and Networking, WiSPNET 2017, Volume 2018-January, Year 2018, Pages 1828-1832
13. **Capacity analysis for Rayleigh γ - γ Gamma-Gamma mixed RF/FSO link with fixed-gain AF relay**
 Banibrata BAG ., Akinchan DAS ., Aniruddha CHANDRA ., Chayanika BOSE .,
 IEICE Transactions on Communications, Volume , Year 2017, Pages
14. **BER of MIMO FSO link with Alamouti coding and SEC**
 Das A.;Bag B.;Chandra A.
 Proceedings of the 2017 International Conference on Wireless Communications, Signal Processing and Networking, WiSPNET 2017, Volume 2018-January, Year 2017, Pages 1823-1827
15. **Performance analysis of fixed gain AF relay assisted mixed RF-FSO links**
 Akinchan Das ., Banibraa Bag ., Aniruddha Chandra .,
 2nd International Conference on Opto-Electronics and Applied Optics (IEM OPTRONIX), Volume , Year 2015, Pages
16. **Performance analysis of dual-hop AF relaying FSO system using alamouti scheme over G-G fading channel**
 Bag B.;Das A.;Chandra A.
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17. **End-to-end performance analysis of relayed FSO transmissions over Gamma-Gamma fading channels using STBC**
 A. Das, B. Bag, and A. Chandra
 International Conference on Opto-Electronics and Applied Optics, IEM OPTRONIX, Volume , Year 2014, Pages
18. **A Novel Low-Cost Bidirectional Multimedia Data Transmission Using Optical Fiber in RoF System**
 Banibrata Bag ., Akinchan Das ., Anindya Das ., Surajit Mukherjee ., Ardhendu Patra .,
 Optics InfoBase Conference Papers, Volume , Year 2012
19. **Third order nonlinear distortion reduction in full-duplex ROF transport system based on suppression scheme**
 Akinchan Das ., Banibrata Bag ., Wei-Yi Lin ., Hai-Han Lu ., A. S. Patra ., P. Predeep ., Mrinal Thakur ., M. K. Ravi Varma .,
 AIP Conference Proceedings, Volume 1391, Year 2011, Pages 386-388

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