PROF. (DR.) ARIJIT SAHA

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Professional Summary

Exceptionally seasoned and dedicated Engineering Professor with a strong record in both teaching and administration. Adept at explaining highly complex engineering theories and practices in a clear and accessible manner to a variety of professional and non-professional audiences. Committed to offering interested students my full attention and expertise to help further their academic and professional goals; has a touch base with other engineering professionals to update on latest principles that govern the field that will enhance the learning experience of students.

Skills

- Extensive breadth of experience in engineering instruction at the college and University level
- Strong ability to deliver course material through a variety of teaching methods
- Excellent interpersonal, presentation and communication skills
- Superior creative and critical thinking abilities
- High multitasking ability to balance teaching and administrative duties
- Well organized
- Proficiency in Matlab and MS Office including PowerPoint, Word and Excel

Professional Affiliations

- Fellow '**The Institution of Electronics and Telecommunication Engineers** (IETE)' (Membership No. F-503301)
- Fellow '**Optical Society of India** (OSI)' (Membership No. L.524)
- Life Member '**Indian Society for Technical Education** (ISTE)' (Membership No. LM123320)
- Life Member '**International Association of Engineers** (IAENG)' (Membership No. 299055)

Work Experience

Principal 01/06/2023–Present
Dum Dum Motijheel Rabindra Mahavidyalaya, Kolkata, West Bengal

Professor 17/07/2021–31/05/2023
Department of Electronics & Communication Engineering
B. P. Poddar Institute of Management & Technology, Kolkata, West Bengal

Associate Professor 01/11/2011–16/07/2021
Department of Electronics & Communication Engineering
B. P. Poddar Institute of Management & Technology, Kolkata, West Bengal

Visiting Professor March 2009-Present
University of Calcutta, Kolkata, West Bengal

Assistant Professor 01/03/2008–31/10/2011
Department of Electronics & Communication Engineering
B. P. Poddar Institute of Management & Technology, Kolkata, West Bengal

Assistant Professor 01/10/2006–29/02/2008
Department of Electronics & Communication Engineering
JIS College of Engineering, Kalyani, Nadia, West Bengal

Senior Lecturer 01/10/2004–30/09/2006
Department of Electronics & Communication Engineering
JIS College of Engineering, Kalyani, Nadia, West Bengal

Lecturer 01/08/2001–30/09/2004
Department of Electronics & Communication Engineering
JIS College of Engineering, Kalyani, Nadia, West Bengal

Associate Software Engineer 01/01/2001–31/07/2001
Computer Associates-TCG Software
Kolkata, West Bengal

System Analyst 23/06/1999–31/12/2000
ABP Ltd
Kolkata, West Bengal

Education

- **Doctoral Degree** – Ph.D. (Tech.) January 2013.
  Dept. of Applied Optics & Photonics, University of Calcutta, India
- **Master's Degree** – M. Tech. (1st Class), 2004.
  Dept. of Applied Physics, University of Calcutta, India
- **Bachelor's Degree**– B. Tech. (1st Class), 1999.
  Dept. of Applied Physics, University of Calcutta, India
- **Bachelor's Degree**– B. Sc. (Honours in Physics), (1st Class), 1996.
  Krishnath College, University of Calcutta, India

Research

- Research Topic- ***Novel applications of chromatic behaviour of birefringent networks,*** March 2008-November 2012
  Dept. of Applied Optics & Photonics, University of Calcutta, India

Award

- Obtained "Leading Educationist of India award 2018" from DK International Research Foundation, TamilNadu in Academic Year 2017-18.
- Obtained "Best Faculty award" from Cognizant in Academic Year 2014-15.
- Obtained Scholarship for the result of B.Sc. from the Govt. of India.
- Obtained National Scholarship for the result of Madhyamik.

Computer Proficiency

- Scientific Language: MATLAB, C
- Operating Systems: MS-DOS 6.22, WINDOWS 9X, WINDOWS 2000, WINDOWS NT, WINDOWS XP, SUN SOLARIS, UNIX, LINUX
- RDBMS: Ingress II, Ingress 6.4, Open Ingress 1.2, ESQL.
- Application Package: MS Office

Conferences/ Seminar Attended

- Attended the Conference of CSI at BPPIMT on 13/09/2012.
- Attended and presented a paper in the Conference "Challenges of basic research in innovating technologies" at Kolkata, India, on 04/05/2013.
- Presented a paper titled *A New Achromatic Combination of Birefringent Plates*, in International conference on Trends in Optics & Photonics at Kolkata, India, March 1-4, 2009.
- Presented a paper titled *A zero-order achromatic quarter-wave plate for visible spectrum*, in International conference on Trends in Optics & Photonics II, at Kolkata, India, December 7-9, 2011.
- Presented a paper titled *Design of optical finite impulse response filter generating arbitrary spectrum output*, in International Conference on optics and photonics (ICOP-2015), at Kolkata, India, February 20-22, 2015.
- Attended a seminar on "Research methodology and pedagogy" on 2nd July 2016 at BPPIMT.

Training Attended

- Successfully completed AICTE-UKIERI Further Education Leadership and Management Training Programme during 23-26 November 2021
- Successfully completed Phase 2 of AICTE-UKIERI Further Education Leadership and Management Training Programme during 18-21 January 2022
- Successfully completed Phase 3 of AICTE-UKIERI Further Education Leadership and Management Training Programme during 21-23 March 2022

Workshops Attended

- Participated and successfully completed the five-day workshop Mission10X conducted by WIPRO and held at BPPIMT during 12-17th April 2010.
- Participated and successfully completed the two-day advance workshop of Mission10X conducted by WIPRO and held at MCKVIE during 27-28th July 2010.
- Attended a demonstration workshop on LabView on 2nd June 2016 at BPPIMT.
- Participated in a one-day workshop on "Virtual Laboratory", jointly organized by BPPIMT and IIT Guwahati on 17th March 2017.
- Attended a workshop on "Application of photovoltaic cell", organized by SPIE student chapter and Dept. of ECE, BPPIMT on 26th April 2017.
- Attended a one day "Outcome Based Education and Accreditation Workshop" on 28th May 2017, jointly organized by National Board of Accreditation and MAKAUT.

- Attended a workshop on "Innovative experiments by open-source hardware and software" on 5th July 2016 organized by Dept. of Humanities and Basic science, BPPIMT.
- Attended a two-day workshop on "IOT and Embedded system design", under TI (India) University Program during 20-21st December 2018 organized by Dept. of Electronics & Communication Engineering, BPPIMT with Program partner *Digital Shark Technology, Bangalore*.
- Attended a two-day workshop titled "Outcome Based Education" during 24-25 April 2019, jointly organized by NITTTR and BPPIMT.
- Attended a two-day "National level workshop on NIRF India Rankings – 2022 for higher education institutions", during 5-6 January 2022, organized by Institute for Academic Excellence in collaboration with Collegiate Education & Technical Education Department, Govt. of Telangana

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Faculty Development Programs Attended

- Successfully completed a two-week *Advanced faculty training program* on "Digital Signal Processing, Speech and Image Processing" held at CDAC, Kolkata from 24th June 2013 to 5th July 2013.
- Successfully completed a two-week *AICTE sponsored Faculty Development Programme* on "Recent Trends in Communication Systems" held at BPPIMT during 7th to 21st November 2013.
- Successfully completed a one-day *Faculty Development Program* on "Data Sciences" on 30th June 2016, organized by Cognizant.
- Successfully completed a one-week *Short Term Training Program* on "Numerical and statistical methods using software tools" held at NITTTR, Kolkata from 28th May 2018 to 1st June 2018.
- Successfully completed a one-week *Faculty Development Program* on "Recent Trends in Communication Systems and Devices" held at BPPIMT, Kolkata from 21st to 25th July, 2020.
- Successfully completed *AICTE Training And Learning (ATAL) Academy FDP* on "Recent Trends and Applications in Biomedical Signal and Image Processing" at G. H. Raisoni College of Engineering, Nagpur from 21st to 25th September, 2020
- Successfully completed *AICTE Training And Learning (ATAL) Academy FDP* on "Photonics" at Thakur College of Engineering & Technology, Mumbai from 23rd to 27th November, 2020

Faculty & Staff Development Program Organized

- Organizing member of the staff development program held by the ECE dept. at BPPIMT during May-June 2010.

- Organizing member of the one-week Faculty development program on "IoT: Past, Present, and Future" held by the ECE dept. at BPPIMT during 2-7 September 2021.

Conferences Organized

- Organized as Joint convener of the National Conference EAPE 2013 to be held during 30-31 August 2013 at BPPIMT.

- Program committee member of National conference on "Emerging Trends on Computing & Communication (ETCC 2104)".
- Organized National Conference IPC2017 at BPPIMT in the capacity of Joint Convener.
- Organized three-day workshop on "Data Science and computational intelligence" at BPPIMT during 6-8 April 2018.
- Organized three-day National conference on "Information, Photonics & Communication 2019 (IPC'19)" at BPPIMT during 1-3 February 2019.

Seminars/Colloquiums Organized

- Organized one-day seminar on 29th October 2010, as a part of SPIE student chapter activity on "Optical Fiber and its present relevance in communication" where Prof. Vijaya Ramarao of IIT Bombay delivered talk.
- Organized one-day colloquium on 13th November 2010, where Dr. S Chattopadhyay from the Department of Electronic Science, CU, delivered talk on "Strained Si-SiGe system for low power high speed CMOS applications" and Dr. A Chakraborty from A K Choudhury School of Information Technology, CU, spoke on "FPGA based real-time embedded system design".

Invited Talks

- Delivered a talk on "A new achromatic combination of birefringent plates" in Faculty Seminar program 'Prasaron' at B. P. Poddar Institute of Management & Technology on 17thApril 2009.
- Delivered a talk titled "High Impact Teaching skills" to pass on the knowledge gained by me at Mission10X to all faculty members of B. P. Poddar Institute of Management & Technology on 3rd June 2010.
- Delivered a talk on Matlab in Staff Development Programme on "Matlab and Latex" at B. P. Poddar Institute of Management & Technology during 29th June to 5th July 2011.
- Delivered a talk on "A zero-order achromatic quarter-wave plate for visible spectrum" in Faculty Seminar program 'Prasaron' at B. P. Poddar Institute of Management & Technology on 11thJanuary 2013.
- Delivered a talk on "Introduction to Communications Toolbox in MATLAB 7.6.0 (R2008)" in AICTE sponsored Faculty Development Programme at B. P. Poddar Institute of Management &Technology on 9th November 2013.
- Delivered a talk on "Fundamentals of Electronics Communication" in SPIE Student Chapter sponsored two-day seminar at B. P. Poddar Institute of Management &Technology during 31st October to 1st November 2014.
- Delivered a talk on "Design of optical finite impulse response filter generating arbitrary spectrum output" in Faculty Seminar program 'Prasaron' at B. P. Poddar Institute of Management &Technology on 20th March 2015.
- Delivered invited lectures on various communication and signal processing tools of MATLAB in Faculty Development Programme on "Advanced Communication & Signal Processing" at Narula Institute of Technology, Agarpara, during 8-9 January 2015.
- Delivered a talk on "Optical wireless communication – An overview" in SPIE Student Chapter sponsored two-day seminar EAPE 15 at B. P. Poddar Institute of Management &Technology during 9th October to 10th October 2015.

- Delivered a talk in the AICTE sponsored STTP on *Simulation with Matlab – From Device to Circuit, Phase-I* held at JIS College of Engineering, Kalyani, India on 13th August 2021.
- Delivered a talk in the AICTE sponsored STTP on *Simulation with Matlab – From Device to Circuit, Phase-II* held at JIS College of Engineering, Kalyani, India on 3rd September 2021.
- Delivered a talk in the AICTE sponsored STTP on *Simulation with Matlab – From Device to Circuit, Phase-III* held at JIS College of Engineering, Kalyani, India on 24th September 2021.
- Delivered a talk on "A step towards polarization control of solar telescope and efficient storage of astronomical images" in the Faculty Development Program on *Astronomy, Astrophysics and Related Challenges* sponsored by AICTE Training and Learning (ATAL) Academy held at B. P. Poddar Institute of Management &Technology on 8th January 2022.
- Delivered a talk on "Patent filing procedure" in an Awareness Session on IPR: What, Why & How at BPPIMT, Kolkata on 13th December, 2022.

List of Publications

Books:

1. *Digital Principles and Logic Design Techniques* from Laxmi Publications, New Delhi in January 2007, ISBN: 978-81-318-0621-0 & Infinity Science Press, USA in May 2007, ISBN: 1934015032.
2. *Optoelectronics and Optical Communication* from University Science Press, New Delhi in July 2011, ISBN: 978-93-81159-06-4.
3. *Novel applications of chromatic behaviour of birefringent networks* from Lambert Academic Publishing, Germany in January 2013, ISBN: 978-3-659-33981-3.
4. *Information Theory, Coding and Cryptography* from Pearson Education in July 2013, ISBN: 9788131797495.

Book Chapters:

1. **Arijit Saha**, "A technique for optical comb-like channel spectrum generation," in *Innovation in Technologies Challenges of Basic Research*, R. Goswami *et* al., Eds. India: Narosa Publishing House, 2013, pp. 74-79, ISBN 978-81-8487-441-9.
2. S. Sarkar, A. Das, **A. Saha**, "A Technique for Generation of Renewable Electrical Energy from Noise". in *Information, Photonics and Communication. Lecture Notes in Networks and Systems*, Vol. 79, J. Mandal et al., Eds. Singapore: Springer, 2019, pp. 101-106, ISBN 978-981-32-9452-3, https://doi.org/10.1007/ 978-981-32-9453-0_11
3. A. Patra, S. Bandyopadhyay, D. Chakraborty, **A. Saha**, "A Novel Approach to Compression of Satellite Images Using Butterworth Filtering," in *Information, Photonics and Communication. Lecture Notes in Networks and Systems*, Vol. 79, J. Mandal et. al., Eds. Singapore: Springer, 2019, pp. 179-183, ISBN 978-981-32-9452-3, https://doi.org/10.1007/978-981-32-9453-0_18
4. **Arijit Saha**, "Advances in Terahertz Imaging," in *Emerging Trends in Terahertz Solid-State Physics and Devices*, A. Biswas et al., Eds. Singapore:

Springer, 2020, pp. 143-168, ISBN 978-981-15-3234-4, https://doi.org/10.1007/978-981-15-3235-1_10

5. Anirban Patra, **Arijit Saha**, Kallol Bhattacharya, "Compression and multiplexing of medical images using optical image processing," in *Computational Intelligence and Its Applications in Healthcare*, P. Johri et al., Eds. United Kingdom: Elsevier Inc., 2020, pp. 63-71, ISBN 978-0-12-820604-1, https://doi.org/10.1016/B978-0-12-820604-1.00005-4
6. Anirban Patra, **Arijit Saha**, Debasish Chakraborty, Kallol Bhattacharya, "Compression of High-Resolution Satellite Images Using Optical Image Processing," in *Satellite Systems - Design, Modeling, Simulation and Analysis*, Tien M. Nguyen, Ed. United Kingdom: IntechOpen, 2021, pp.1-5, ISBN 978-1-83968-374-9, ISBN:978-1-83968-373-2, http://dx.doi.org/10.5772/intechopen.94147.
7. A. Patra, **A. Saha**, K. Bhattacharya, "Encryption of Optically Compressed Medical Images Using Phase Matrix*,"* in *Advanced Techniques for IoT Applications. EAIT 2021. Lecture Notes in Networks and Systems*, Vol. 292., J.K. Mandal et al. (Eds.), Singapore: Springer, 2022, pp. 14-21, ISBN: 978-981-16-4435-1, https://doi.org/10.1007/978-981-16-4435-1_2
8. N. Mukhopadhyay, **A. Saha**, K. Bhattacharya, "Application of Flower Pollination Algorithm in Designing of a Multi-crystal Superachromatic Quarter-Wave Phase Retarder," in *Advanced Techniques for IoT Applications. EAIT 2021. Lecture Notes in Networks and Systems*, Vol. 292., J.K. Mandal et al. (Eds.), Singapore: Springer, 2022, pp. 399-407, ISBN: 978-981-16-4435-1, https://doi.org/10.1007/978-981-16-4435-1_38
9. Nilanjan Mukhopadhyay, **Arijit Saha**, "Design of Super-Achromatic Phase Controlling Assemblies for THz Spectro-Polarimetric Imaging System Using Metaheuristic Optimization Technique," in *Optical to Terahertz Engineering*, A. Saha et al., Eds. Singapore: Springer, 2023, pp. 17-28, ISBN 978-981-99-0227-9, https://doi.org/10.1007/978-981-99-0228-6
10. Pia Sarkar, **Arijit Saha**, "Evolution of 6G and Terahertz Communication," in *Optical to Terahertz Engineering*, A. Saha et al., Eds. Singapore: Springer, 2023, pp. 45-58, ISBN 978-981-99-0227-9, https://doi.org/10.1007/978-981-99-0228-6.
11. Pia Sarkar, **Arijit Saha**, Amit Banerjee, "Prediction Model for Signal Attenuation in 5G and Beyond Communication," in *Trends in Sustainable Design, Technology and Innovation*, Goutam Mukherjee et al. (Eds.), Red'shine Publications Pvt. Ltd., 2023, pp. 189-199, ISBN: 978-93-5879-479-3, https://doi.org/10.25215/9358794798.
12. Pia Sarkar, **Arijit Saha**, Amit Banerjee, "A comparative analysis of propagation models suitable for non-line-of-sight 5G communication at 26 GHz*,"* in *Data Science and Network Engineering. ICDSNE 2023. Lecture Notes in Networks and Systems*, Vol. 791., Suyel Namasudra et al. (Eds.), Singapore: Springer, 2024, pp. 347-356, ISBN: 978-981-99-6754-4, https://doi.org/10.1007/978-981-99-6755-1

SCI/Scopus Indexed Journals:

1. **Arijit Saha**, Kallol Bhattacharya, Ajoy Kumar Chakraborty: *A composite birefringent filter: design and simulation*, Journal of Modern Optics **56** (8), pp. 963-967 (May 2009), https://doi.org/10.1080/09500340902829585, ISSN: 0950-0340 (Print), 1362-3044 (Online), Impact Factor: 1.464.

2. **Arijit Saha,** Kallol Bhattacharya, Ajoy Kumar Chakraborty: *Three-element variable retarder for monochromatic light*, Optical Engineering **49** (7), 073004(1-4) (July 2010), https://doi.org/10.1117/1.3462065, ISSN: 0091-3286 (Print), 1560-2303 (Online), Impact Factor: 1.084.
3. **Arijit Saha**, Kallol Bhattacharya, Ajoy Kumar Chakraborty: *Reconfigurable achromatic half-wave and quarter-wave retarder in near infrared using crystalline quartz plates*, Optical Engineering **50** (3), 034004(1-4) (March 2011), https://doi.org/10.1117/1.3552666, ISSN: 0091-3286 (Print), 1560-2303 (Online), Impact Factor: 1.084.
4. **Arijit Saha**, Kallol Bhattacharya, Ajoy Kumar Chakraborty: *A near infrared zero-order achromatic retarder*, Pramana Journal of Physics (Springer), **77** (4), pp. 627-631 (October 2011), https://doi.org/10.1007/s12043-011-0099-y, ISSN: 0304-4289 (P), 0973-7111 (Online), Impact Factor: 2.219.
5. **Arijit Saha**, Kallol Bhattacharya, Ajoy Kumar Chakraborty: *New achromatic quarter-wave combination of birefringent plates*, Optical Engineering **51** (01), 013001(1-5) (January 2012), https://doi.org/10.1117/1.OE.51.1.013001, ISSN: 0091-3286 (Print), 1560-2303 (Online), Impact Factor: 1.084.
6. **Arijit Saha**, Kallol Bhattacharya, Ajoy Kumar Chakraborty: *Achromatic quarter-wave plate using crystalline quartz*, Applied Optics **51** (12), pp. 1976-1980 (April 2012), https://doi.org/10.1364/AO.51.001976, ISSN: 1559-128X (Print), 2155-3165 (Online), Impact Factor: 1.98.
7. **Arijit Saha**, Kallol Bhattacharya, Ajoy Kumar Chakraborty: *Compensation of rotation effect in a combination of retarders*, Applied Optics **51** (20), pp. 4798-4802 (July 2012), https://doi.org/10.1364/AO.51.004798, ISSN: 1559-128X (Print), 2155-3165 (Online), Impact Factor: 1.98.
8. **Arijit Saha**, Sonali Chakraborty, Kallol Bhattacharya: *Achromatic half-wave combination of birefringent plates*, Optik **125** (16), pp. 4534-4537 (August 2014), https://doi.org/10.1016/j.ijleo.2014.02.012, ISSN: 0030-4026, Impact Factor: 2.443.
9. Sonali Chakraborty, **Arijit Saha,** Kallol Bhattacharya: *Extraction of difference of two images using periodic carrier modulation*, Optik **125** (21), pp. 6466-6469 (November 2014), https://doi.org/10.1016/j.ijleo.2014.06.161, ISSN: 0030-4026, Impact Factor: 2.443.
10. **Arijit Saha**, Kallol Bhattacharya, Ajoy Kumar Chakraborty: *Depolarization of polarized polychromatic beam during propagation in a birefringent medium*, Optik **127** (15), pp. 5882-5886 (August 2016), https://doi.org/10.1016/j.ijleo.2016.04.001, ISSN: 0030-4026, Impact Factor: 2.443.
11. **Arijit Saha**: *Birefringent network forming a rotator*, Optik **127** (15), pp. 5914-5919 (August 2016), https://doi.org/10.1016/j.ijleo.2016.04.009, ISSN: 0030-4026, Impact Factor: 2.443.
12. Nilanjan Mukhopadhyay, Sudip Mandal, Kallol Bhattacharya, **Arijit Saha**: *Design of a superachromatic quarter-wave retarder for near-infrared region using flower pollination algorithm*, Optical Engineering **58**(9), 095101(1-6) (September 2019), https://doi.org/10.1117/1.OE.58.9.095101, ISSN: 0091-3286 (Print), 1560-2303 (Online), Impact Factor: 1.084.
13. Anirban Patra, **Arijit Saha**, Kallol Bhattacharya: *Multiplexing and encryption of images using phase grating and random phase mask*, Optical Engineering **59**(3), 033105(1-10) (March 2020), https://doi.org/10.1117/1.OE.59.3.033105, ISSN: 0091-3286 (Print), 1560-2303 (Online), Impact Factor: 1.084.

14. Nilanjan Mukhopadhyay, **Arijit Saha**, Kallol Bhattacharya: *Super-Achromatic Quarter-Wave Phase Retarder for Visible, Near Infrared, and Short Wave Infrared Region Applications*, Optics and Spectroscopy **128**(8), pp. 1199-1204 (August 2020), https://doi.org/10.1134/S0030400X20080251, ISSN: 0030-400X, Impact Factor: 0.891.
15. N. Mukhopadhyay, **A. Saha**, K. Bhattacharya: *Study on superachromatism of a quarter-wave retarder for the visible range of the spectrum*, Journal of Optical Technology **87**(11), pp. 638-641 (November 2020), https://doi.org/10.1364/JOT.87.000638, ISSN: 1070-9762 (print), Impact Factor: 0.422.
16. Anirban Patra, **Arijit Saha**, Kallol Bhattacharya: *High-resolution image multiplexing using amplitude grating for remote sensing applications*, Optical Engineering **60**(7), pp. 073104(1-11) (July 2021), https://doi.org/10.1117/1.OE.60.7.073104, ISSN: 0091-3286 (Print), 1560-2303 (Online), Impact Factor: 1.084.
17. N. Mukhopadhyay, **A. Saha**, K. Bhattacharya: *Design of a narrow band-pass birefringent filter for visible range*, Pramana Journal of Physics (Springer), **95** (3), pp. 142(1-9) (August 2021), https://doi.org/10.1007/s12043-021-02175-0, ISSN: 0304-4289 (P), 0973-7111 (Online), Impact Factor: 2.219.
18. Debarati Dey Roy, **Arijit Saha**, Debashis De: *Investigation of anomalous photon management in organic nano particles-coating photovoltaic solar cells*, Silicon, **14**(16), pp. 10939-10946, (November 2022) (Published online: 28 March 2022), https://doi.org/10.1007/s12633-022-01827-z, ISSN: 1876-990X (Print), 1876-9918 (Online), Impact Factor: 2.67.
19. Anirban Patra, **Arijit Saha**, Kallol Bhattacharya: *Efficient Storage and Encryption of 32-Slice CT Scan Images Using Phase Grating*, Arabian Journal for Science and Engineering, **48**(2), pp. 1757-1770, (February 2023) (Published online: 24 June 2022), https://doi.org/10.1007/s13369-022-06986-0, ISSN: 2193-567X (Print), 2191-4281 (Online), Impact Factor: 2.334.
20. Pia Sarkar, **Arijit Saha**, Aditya Banerjee, Amit Banerjee, A. Y. Seteikind, I. G. Samusev: *Review on the Evolution of 6G and Terahertz Communication for Highspeed Information Processing*, Bulletin of the Russian Academy of Sciences: Physics, **86** (Suppl 1), pp. S166–S170 (December 2022), https://doi.org/10.3103/S1062873822700617, ISSN: 1062-8738, Impact Factor: 0.476.
21. Anirban Patra, **Arijit Saha**, Kallol Bhattacharya: *Compression of High-Resolution Space Video Using Phase Grating*, Journal of the Indian Society of Remote Sensing, **51**(10), pp. 2057-2066, (October 2023) (Published online: 28 August 2023), https://doi.org/10.1007/s12524-023-01748-3, ISSN: 0255-660X (print); 0974-3006 (Online), Impact Factor: 2.5.
22. Banhi Das, Anirban Patra, **Arijit Saha**, Somali Sanyal Sikder: *Secured Communication of multiple compressed infrared Images using 6-D hyper-chaotic encryption*, Journal of Optics (Published online: 7th February 2024), https://doi.org/10.1007/s12596-024-01655-x, ISSN: 0972-8821 (Print), 0974-6900 (Online), Impact Factor: 1.8.
23. Nilanjan Mukhopadhyay, **Arijit Saha**: *Design and simulation of an achromatic phase controller for THz polarization imaging system*, Journal of Optics (Published online: 4th March 2024), https://doi.org/10.1007/s12596-024-01699-z, ISSN: 0972-8821 (Print), 0974-6900 (Online), Impact Factor: 1.8.
24. Pia Sarkar, **Arijit Saha**, Amit Banerjee, Vedatrayee Chakraborty: *Design and analysis of MIMO antenna array for TeraHertz communication*, Journal of

Optics (Published online: 4th April 2024), https://doi.org/10.1007/s12596-024-01739-8, ISSN: 0972-8821 (Print), 0974-6900 (Online), Impact Factor: 1.8.

Other Peer-Reviewed Journals:

1. **Arijit Saha**, Kallol Bhattacharya, Ajoy Kumar Chakraborty**:** *Combination of birefringent plates forming a retarder having marginal chromatic error*, Science & Culture **75** (11-12), pp. 424-427 (November-December 2009), ISSN: 0036-8156.
2. Anirban Patra, **Arijit Saha**, Ajoy Kumar Chakraborty: *A Simple Approach to Watermarking of Multiple Grayscale Images using Alpha Blending*, International Research Journal of Engineering and Technology (IRJET) **4** (3), pp. 302-304 (March 2017), ISSN:2395-0072 (P), 2395-0056 (E), Impact Factor: 5.181.
3. Kumari Sneha, Niharika Roy, Anirban Patra, **Arijit Saha**: *Watermarking in Medical Images Using Alpha Blending*, International Journal for Science and Advance Research in Technology (IJSART) **3**(10), pp. 384-387 (October 2017), ISSN: 2395-1052, Impact Factor: 4.284.
4. Amit Saha, Patrali Bhattacharya, Anirban Patra, **Arijit Saha**: *A novel approach to detect quality of apple using image processing*, International Journal for Science and Advance Research in Technology (IJSART)**4**(1), pp. 513-515 (January 2018), ISSN: 2395-1052, Impact Factor: 4.284.
5. Anirban Patra, Debasish Chakraborty, **Arijit Saha**, Kallol Bhattacharya: *Encryption of Optically Compressed Satellite Image using Random phase*, International Journal of Innovative Knowledge Concepts, **7** (Special Issue 1), pp. 192-194 (February 2019), ISSN: 2454-2415
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