Dr. SAPTARSHI PAUL
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Academic Qualification:

PhD (Computer Science), Assam University, Silchar

M.Tech. (Information Technology), Vellore Institute of Technology, Vellore

M.Sc. (Computer Science), Assam University, Silchar

Professional Experience:

1. **Lecturer**
   Department of Computer Science and Engineering
   CMR- Institute of Technology, Bangalore
   July 2009 to October 2009

2. **Assistant Professor (Stage-I)**
   Department of Computer Science
   Assam University, Silchar
   October 2009 to March 2015

3. **Assistant Professor (Stage-II)**
   Department of Computer Science
   Assam University, Silchar
   April 2015 to March 2020

4. **Assistant Professor (Stage-III)**
   Department of Computer Science
   Assam University, Silchar
   March 2020 to Current

Publications:

Conferences:

1. "An effective approach to estimate fingerprint orientation", (Bishwa Ranjan Roy ; Amit Kumar Trivedi ; Arun Kumar Yadav ; Saptarshi Paul) Published in: 2016 2nd International Conference on Advances in Computing, Communication, & Automation (ICACCA) (Fall), Date of Conference: 30 Sept.-1 Oct. 2016, Date Added to IEEE *Xplore*: 21 November 2016, INSPEC Accession Number: 16484548   DOI: 10.1109/ICACCAF.2016.7748997   Publisher: IEEE   Conference Location: Bareilly, India, ISBN Information: Electronic ISBN: 978-1-5090-3480-2 Print on Demand(PoD) ISBN: 978-1-5090-3481-9

2. "English to Bengali Transliteration Tool for OOV words common in Indian Civil Aviation", *Saptarshi Paul, Bipul syam Purkaystha*, 4th National Conference on Emerging Trends and Applications in Computer Science – 2018 (NCETACS - 2018) 14th-15th September 2018, Organized by Department of Computer Science, St. Anthony's College, Shillong, Meghalaya – 793001.

3. "Preprocessing Aviation Slangs and OOV Words for Machine Translation", *Saptarshi Paul, Bipul Syam Purkaystha*, International Conference in Recent Trends on Electronics and Computer Science (ICRTECS 2019), March 18-19, 2019, Organized by Department of Electronics and Communication Engineering, National Institute Of Technology, Silchar-788010

Journals:

1. "Identification of potential tourism places in Sikkim using remote sensing and GIS", (International Journal Of Advanced research in Computer Science) *ISSN: 0976-5697* (**UGC listed Journal No. 2503** till 2nd may 2018) Volume 3, No.3 May- June 2012, page: 371-375(Sanju das, Bipul Syam Purkaystha, Saptarshi Paul)

2. "A review on Detection and correction of satellite image using RSGIS" (International Journal of advanced scientific and technical research) Issue2 volume 4 August 2012, *ISSN: 2249-9954* (Sanju das, Bipul Syam Purkaystha, Saptarshi Paul, Nayan Mazumder)

3. "A colour image coding/decoding method based on newly constructed fuzzy transforms" , (Engineering Sciences International Research Journal) (Biannual Journal) , Volume 4, Issue 1, MARCH 2016 page 29-33*, ISSN: 2320-4338*. (Sharmistha bhattacharjee (Haldar), Purnendu das, Sanju das, Saptarshi Paul)

4. "A method for approximating solution of Ordinary Differential Equations by using Shepard Kernal Based Fuzzy Transforms" (Sharmistha Bhattacharaya(Haldar), Purnendu Das, Sanju Das, Saptarshi Paul) Mathematical Sciences International Research Journal(Biannual journal), Volume 5 Issue 1,March 2016, *ISSN: 2278-8697*, page: 54-58 (**UGC listed journal No. 43832** till 2nd may 2018)

5. "A new method of Gray Image Coding/Decoding by Using Newly Constructed Shepard Kernal Based Fuzzy Transforms", (Purnendu Das, Bishwa Ranjan Roy, Sanju Das, Saptarshi Paul), Mathematical Sciences International Research Journal, Volume 7 spl issue 5, February-2018 ISSN: 2278-8697, Page: 97-107

6. "Balanced Data Clustering Algorithm for Both Hard and Soft Clustering", (Purnendu Das, Bishwa Ranjan Roy, Saptarshi Paul),ISSN: 2347-2693 International Journal of Computer Sciences and Engineering , published 28/02/2018, page:176-183, Volume-6, Issue-2.

7. "NLP Tools Used In Civil Aviation: A survey-2018", Saptarshi Paul, Bipul Syam Purkaystha, Purnendu Das, International Journal of Advanced Research in Computer Science, Volume 9, No. 2. March-April 2018, *ISSN: 0976-5697*, page :110-114 (**UGC listed Journal No.2503** till May 2 ,2018)

8. "English to Bengali Transliteration Tool for OOV words common in Indian Civil Aviation", Saptarshi Paul, Bipul Syam Purkaystha, Journal of Advanced Database Management & Systems, ISSN: 2393-8730 (Online) Volume 6, Issue 1, April-2019. (**UGC listed Journal No. 47085** till 14 June 2019) , page:23-32

9. "Bilingual (English to Bengali) Technical E- Dictionary for Aviation OOV Words", Saptarshi Paul, International Journal of Engineering and Advanced Technology, Volume-9 Issue-2, December, 2019, ISSN: 2249 – 8958, page: 3777-3781. (*Indexed: **Scopus**, **UGC CARE list-II***)

10. "Handling aviation OOV words for machine translation and corpus creation", Saptarshi Paul, Bipul Syam Purkaystha, Indian Journal of Computer Science and Engineering (IJCSE), Vol. 11 No. 5 Sep-Oct 2020, pp-471-477 (*Indexed: **Scopus**, **UGC CARE list-II***)

11. "English to Bengali Neural Machine Translation System for the Aviation Domain", Saptarshi Paul, Bipul Syam Purkaystha, INFOCOMP Journal of Computer Science E-ISSN: 1982-3363, Vol. 19, No. 2, December 2020, pp.78-97 (*Indexed: **UGC CARE list- I***)

12. "Detailed analysis of implementation of aviation NMT system and the effects of aviation post-processing tools on TDIL tourism corpus", Saptarshi Paul, Bipul Syam Purkaystha, Journal Of King Saud University -Computer and Information Sciences , ISSN**: 1319-1578, Vol. 34, Issue 8, Part A, September 2022, pp:5030-5044 (*Indexed: **SCI-E** , **UGC CARE list-II***)

13. "Translating the Language of Aviation. The Development and Detailed analysis of the English-Bengali Aviation Corpus for Machine translation" Saptarshi Paul, INFOCOMP Journal of Computer Science E-ISSN: 1982-3363, Vol. 21, No. 1, June 2022,(*Indexed: **UGC CARE list- I***)

Book chapters:

1."Accessing Real Time Flight Information through Digital India (DI) Initiative", *Saptarshi Paul*, (Digital India : Rhetoric versus Reality), editors: Bishwajit Bhattacharjee, Ritumani Haloi , SCHOLOR PUBLICATIONS, Karimganj, Assam, India, ISBN: 978-81-931856-1-2, January 2016**,** Page:205-215.

2. "Effect of Partition on the airports of southern Assam and Tripura",*Saptarshi Paul*, (Partition of India: Memory, Trauma and Representation), editors: D.K Doley, AFM malik, Chintamoni Prakashan, Guwahati, Assam, India, ISBN: 978-81-86385-23-6, page: 6-11.

3. "An NLP tool for decoding the ATC Phraseology from English to Bengali", *Saptarshi Paul, Bipul shyam Purkhyastha*, proceedings of the International Conference on Smart Electronics and Communication (ISOSEC2020), 10-12 September 2020 (IEEE XPLORE complaint, ISBN: 987-1-7281-5461-93, page 264-270.

4. "Impact of COVID-19 lockdown on flight, Passenger and Freight movement of Silchar airport", *Saptarshi Paul*,(Modernism and Postmodernism: Reflections and speculations, Volume-1), editors: D.K Doley, AFM malik, The Assam Computers, Guwahati, Assam, India, ISBN:978-2-12-345680-3, p:65-69

5. "Understanding Aviation English: Challenges and Opportunities in NLP Applications for Indian Languages", *Saptarshi Paul*, (Air Traffic Management and Control) Editors: Longbiao Li, Nanjing University of Aeronautics and Astronautics, INTECHOPEN Ltd, England and Wales, ISBN:Print: 978-1-83969-830-9Online: 978-1-83969-831-6, pp:1-10, published: 23-8-2021

Reviewer in WOS SCI-E Journals:

Journal name	Indexed in	Publisher	
Expert Systems with Applications	WOS/SCI-E	ELSEVIER	
Journal of Air Transport Management	WOS/SCI-E	ELSEVIER	