Curriculum Vitae

Brief Profile:

Dr. Sovanjyoti Giri received the B. Tech. degree in Electronics and Communication Engineering from Kalyani Government Engineering College (West Bengal University of Technology, Kolkata) in 2012, and the M. Tech. degree in Communication Systems from Motilal Nehru National Institute of Technology Allahabad in 2014. Dr. Giri obtained his doctoral degree from the Department of Electronics and Electrical Communication Engineering, Indian Institute of Technology Kharagpur in December 2022. The title of his Ph.D. thesis was "Feedback-Based Network Coding for Next-Generation Wireless Broadcast". Dr. Giri has research experience in the areas of network coding and related advanced techniques for the betterment of future wireless communication systems. He used mathematical techniques such as Applied Probability, Stochastic Analysis, Abstract Algebra, Combinatorics, Tensor Analysis etc. to solve problems related to queue occupancy, performance, and QoS in multicast and broadcast systems, and has engineering background encompassing areas like Communication Theory, Wireless Networking, Information Theory, Channel Coding etc. Dr. Giri's research works were published in reputed journals and conference like IEEE Transactions on Vehicular Technology, IEEE Communications Letters, IEEE Conference on Local Computer Networks etc. He also served as a reviewer for many renowned journals like IEEE Transactions on Vehicular Technology, IEEE Transactions on Services Computing, IEEE Communications Letters, IEEE Systems Journal, IEEE Access etc.

Dr. Giri recently joined the Electronics and Communication Engineering Department at National Institute of Technology Tiruchirappalli as an Assistant Professor in April 2024. Before joining NIT Trichy, he acquired some teaching and research experience while working as an Assistant Professor at the School of Computer Science and Engineering at Vellore Institute of Technology (Chennai Campus), as a Temporary Faculty at National Institute of Technology Sikkim, and as an Assistant Professor at Dehradun Institute of Technology University. Besides academic experience, Dr. Giri has one year of industry experience as a Patent Analyst (after submitting his Ph.D. thesis in September 2021) in Dolcera Information Technology Services Pvt. Ltd. where he analyzed various 4G, 5G and 6G related patents with analysis techniques such as claim charts, novelty search, patent categorization etc.

1. Name: Dr. Sovanjyoti Giri

2. Designation: Assistant Professor (Grade-II)

3. Office Address: Room No. 115, Electronics and Communication Engineering Department

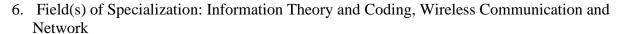
4. Telephone (Direct):

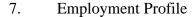
Telephone: Not yet assigned

Mobile: 9536899855, 9674042810

5. Email (Primary): sovanjyoti@nitt.edu

Email (Secondary): sgiri1990@live.com





Job Title	Employer	From	То
Assistant Professor (Grade-II)	National Institute of Technology Tiruchirappalli	01-04-2024	Till date
Assistant Professor (Senior Grade 1)	Vellore Institute of Technology (Chennai Campus)	29-05-2023	29-03-2024
Temporary Faculty	National Institute of Technology Sikkim	17-04-2023	23-05-2023
Patent Analyst, Electronics and Communication Team	Dolcera Information Technology Services Pvt. Ltd.	18-10-2021	23-09-2022
Assistant Professor	Dehradun Institute of Technology University	14-07-2014	30-06-2015

8. Academic Qualifications (From Highest Degree to High School):

Degree	Board / University	Year	Percentage/ Grade	Subjects
Ph. D.	Indian Institute of Technology Kharagpur	2022	N. A.	Electronics and Electrical Communication Engineering
M. Tech.	Motilal Nehru National Institute of Technology Allahabad	2014	9.63/10	Communication System



B. Tech.	Kalyani Government Engineering College (West Bengal University of Technology)	2012	8.95/10	Electronics and Communication Engineering
10+2	West Bengal Council of Higher Secondary Education	2008	85.43%	Science
10 th	West Bengal Board of Secondary Education	2006	89.38%	All Subjects

9. Academic/Administrative Responsibilities within the University

Position	Faculty/Department/Centre/Institution	From	То
Member of PhD and MS	National Institute of Technology	29-05-2024	Till date
admission committee for the	Tiruchirappalli		
academic year 2024-25			
Member of Continuous	Vellore Institute of Technology	10-02-2024	18-02-2024
Assessment Test (CAT)	(Chennai Campus)		
coordination committee for			
CAT-1 in Winter Semester 2024			

10. Academic/Administrative Responsibilities outside the University

Position	Institution	From	То
N. A.			

11. Awards, Associateships etc.

Year of Award	Name of the Award	Awarding Organization
2008	Award of Excellence for	State Bank of India
	achievement in 12th State Board	
	Examination	
2006 and 2008	Merit Scholarship for	West Bengal Government
	achievements in 10th and 12th	
	State Board Examinations (2006)	
	and 2008 respectively)	

12. Fellowships

Year of Award	Name of the Fellowship	Awarding	From	То
		Organization	(Month/Year)	(Month/Year)
2015-2020	Ph. D. Fellowship	M.H.R.D.,	July 2015	June 2020
	(GATE)	Government of India		
2012-2014	P. G. Scholarship	M.H.R.D.,	July 2012	June 2014
	(GATE)	Government of India		

13. Details of Academic Work

- (i) Curriculum Development: N. A.
- (ii) Courses taught at Undergraduate level:
- At NIT Trichy (April 2024–Present): Wireless Communication, Digital Electronics Laboratory.
- At VIT Chennai (May 2023–March 2024): Signals and Systems, Digital Logic and Microprocessor (Theory and Laboratory).
- At NIT Sikkim (April 2023–May 2023): Basic Electronics (Theory and Laboratory).
- At DIT University (July 2014–June 2015): Digital Signal Processing, Information Theory and Coding Techniques, Principle of Communication Systems (Theory and Laboratory), and Microwave Laboratory.

(iii) Project guided at Postgraduate level (one):

- Title of the project: Artificial intelligence techniques for power optimization in wireless sensor networks (WSN)
- Name of the student: Abhishek Kumar (Reg. No: 23MCA1074)
- Department: School of Computer Science and Engineering (SCOPE)
- University: Vellore Institute of Technology (Chennai Campus)

(iv) Other contribution:

Technical Review Experience: Served as a reviewer for the following journals; IEEE Transactions on Vehicular Technology, IEEE Transactions on Services Computing, IEEE Communications Letters, IEEE Systems Journal, IEEE Access, IETE Journal of Research, IETE Technical Review, and Concurrency and Computation: Practice and Experience (Wiley).

14. Details of Major R&D Projects

Title of Project	Funding Aganay	Duration		Status	
Title of Project	Funding Agency	From	То	Ongoing/ Completed	
N. A.					

15. Number of PhDs guided

Name of the PhD	Title of PhD	Role(Supervisor/ Co-	Year of
Scholar	Thesis	Supervisor)	Award
N. A.			

16. Participation in Workshops/ Symposia/ Conferences/ Colloquia /Seminars/ Schools etc. (mentioning the role)

Date (s)	Title of Activity	Level of Event (International/ National / Local)	Role (Participant/ Speaker/ Chairperson, Paper presenter, Any other)	Event Organized by	Venue
09/05/2024 to 14/05/2024	NEP 2020 Orientation and Sensitization Program	National	Participant	TLC, IIT Madras	TLC, IIT Madras
01/06/2023 to 30/06/2023	Faculty Development Program	Local	Participant	Academic Staff College, VIT Chennai (along with IIT Madras)	VIT Chennai
18/09/2019	Author's workshop on Publishing in Academic Journals	Local	Participant	Taylor and Francis group	IIT Kharagpur
28/05/2017 to 31/05/2017	JTG summer school on signal processing, communications and networks	International	Participant	The Joint Telematics Group and IEEE Information Theory Society	IIT Bombay
01/04/2017	LaTeX workshop on Technical Report Writing	Local	Participant	Student Branch, IEEE Kharagpur section	IIT Kharagpur
20/03/2017 to 26/03/2017	International workshop on Cyber Physical Systems	International	Participant	IIT Kanpur	IIT Kanpur
16/03/2015 to 20/03/2015	Short term course on GSM to 3G through ICT	National	Participant	AICTE	DIT University, Dehradun
21/07/2014	Faculty Development Program	Local	Participant	DIT University, Dehradun	DIT University, Dehradun
08/07/2013 to 13/07/2013	Short term course, WINMAD, on 3G Wireless Networks, MIMO Systems and Antenna Design	National	Participant	MNNIT Allahabad	MNNIT Allahabad
11/06/2013 to 13/07/2013	Summer school on VLSI Design and Embedded Systems	National	Student volunteer	MNNIT Allahabad	MNNIT Allahabad

21/06/2010 to 20/07/2010	Industrial training program on Embedded System & Robotics	National	Participant	Government College of Engineering and Leather Technology, Kolkata, IIT Bombay and TCS Innovation Lab	GCELT Kolkata
06/03/2009 to 07/03/2009	Workshop on Sustainability of Environment	Local	Participant	Department of Chemistry, Kalyani Government Engineering College	Kalyani Government Engineering College, West Bengal

17. Workshops/ Symposia/ Conferences/ Colloquia/ Seminars Organized (as Chairman/ Organizing Secretary/ Convenor / Co-Convenor)

Title of Activity	Level of Event	Date (s)	Role	Venue
	(International/			
	National/Local)			
N. A.				

18. Invited Talks delivered

Topic	Date	Inviting Organization
N. A.		

19. Membership of Learned Societies

Type of Membership (Ordinary Member/	Organization	Membership No. with date
Honorary Member / Life Member)		
Member	IEEE	94801060 (yearly renewal)

20. Academic Foreign Visits

Country	Duration of Visit	Programme
N. A.		

21. Publications

(A) Refereed Research Journals:

Author(s)	Title of Paper	Journal	Volume	Page	Year	Impact
			(No.)	numbers		Factor of the
						Journal
						(Optional)
Sovanjyoti Giri	Feedback-Based	IEEE	vol. 25,	pp.	2021	3.553
and	Network Coding	Communications	no. 10	3229-		
Rajarshi Roy	for Broadcast:	Letters		3233		
	Queueing Analysis					
Sovanjyoti Giri	Performance	IEEE	vol. 70,	pp.	2021	6.239
and	Analysis of	Transactions on	no. 3	2544-		
Rajarshi Roy	Feedback-Based	Vehicular		2560		
	Network-Coded	Technology				
	Systems for					
	Broadcast					
Sovanjyoti Giri	On NACK-Based	MDPI Entropy	vol. 21,	p. 905	2019	2.738
and	rDWS Algorithm		no. 9			
Rajarshi Roy	for Network Coded					
_	Broadcast					

(B) <u>Conferences/Workshops/Symposia Proceedings</u>

Author(s)	Title of Abstract/ Paper	Title of the Proceedings	Page numbers	Conference Theme	Venue	Year
Sovanjyoti Giri and Rajarshi Roy	Packet Dropping and Decoding Statistics for Linear Network Coded Broadcast with Feedback	IEEE 43rd Conference on Local Computer Networks Workshops (LCN Workshops)	pp. 70-77	Conference on Local Computer Networks	Chicago, IL, USA	2018