Name:	Dr. Rahul Kumar Sharma
Designation:	Assistant Professor
Office Address:	Room No. 204A,
	Department of Instrumentation and Control Engineering,
	National Institute of Technology, Tiruchirappalli, India
Fields of Specialization	n: Fractional-Order Systems, Sliding Mode Control
_	



Mobile:	+919855874938	Primary e-mail:	rahul@nitt.edu
Telephone:	+914312503351	Secondary e-mail	rahulks.rs.eee16@iitbhu.ac.in

Dr. Rahul Kumar Sharma was born in Dhanbad, India. He received his B.Tech. degree in Electronics and Instrumentation Engineering from Asansol Engineering College, Asansol, West Bengal, India in 2014, M.Tech. degree in Control and Instrumentation Engineering from Dr. B. R. Ambedkar National Institute of Technology, Jalandhar, India in 2016, and Ph.D. degree in Electrical Engineering (Systems Engineering) from Indian Institute of Technology (BHU), Varanasi, India in 2020. From 2020 to 2021, he worked as Research Associate in the Department of Electrical Engineering, Indian Institute of Technology (BHU), Varanasi, India. From 2021 to 2022, he worked as Faculty Member in the Department of Instrumentation and Control Engineering, National Institute of Technology, Tiruchirappalli, India where he is currently working as Assistant Professor. His research interests include Fractional-Order Systems and Sliding Mode Control.

1. Employment Profile

Job Role	Employer	From	То
Assistant Professor	National Institute of Technology, Tiruchirappalli, India	2022	Present
Faculty Member	National Institute of Technology, Tiruchirappalli, India	2021	2022
Research Associate	Indian Institute of Technology (BHU), Varanasi, India	2020	2021

2. Academic Qualifications

Examination	Board / University	Year	Division
Ph.D.	Indian Institute of Technology (BHU), Varanasi, India	2020	First
M.Tech.	Dr. B. R. Ambedkar National Institute of Technology, Jalandhar, India	2016	First
B.Tech.	Asansol Engineering College, Asansol, West Bengal, India	2014	First

3. Membership of Learned Societies

Type of Membership	Organization	Membership No.
Student Member	Institute of Electrical and	94815158
	Electronics Engineers (IEEE)	

4. Details of Academic Work

(i) Courses Taught at Postgraduate and Undergraduate levels

Course Name	
Course Ivaille	
Control System Design	
Essentials of Control Engineering	
Computational Techniques in Control Engineering	
Industrial Instrumentation	
Industrial Measurements	
Control Engineering Laboratory	
Industrial Automation and Process Control Laboratory	
A. I. and Robotics Laboratory	

(ii) Projects Guided at Postgraduate level

	-	
Name of Student	Thesis Title	Role
Md Imtiyaz Uddin	Design and Implementation of Backstepping Controller for Twin-	Co-Supervisor
	Rotor MIMO System	

5. Publications

(A) Book Chapter

Author(s)	Title of Chapter	Editors	Book	Publisher	Year
S. Kamal and	Sliding Mode Control	A.K. Mehta and	Emerging Trends in	Springer	2020
Rahul Kumar	based Tracking of Non-	B.	Sliding Mode Control -		
Sharma	Differentiable Reference	Bandyopadhyay	Theory and Applications		
	Functions				

(B) Journal Articles

Author(s)	Title of Paper	Journal	Volume	Pages	Year
X. Xiong, Rahul Kumar	Discrete-Time Super-Twisting	IEEE Transactions on	69 (6)	2787-	2022
Sharma, S. Kamal, S.	Fractional-Order Observer	Circuits and Systems		2791	
Ghosh, Y. Bai and Y. Lou	with Implicit Euler Method	II: Express Briefs			
Rahul Kumar Sharma, X.	Discrete-Time Super-Twisting	IEEE Transactions on	68 (4)	1238-	2021
Xiong, S. Kamal and S.	Fractional-Order	Circuits and Systems		1242	
Ghosh	Differentiator with Implicit	II: Express Briefs			
	Euler Method				
S. Kamal, Rahul Kumar	Sliding Mode Control of	Asian Journal of	23 (1)	199-	2021
Sharma, T. N. Dinh, M. S.	Uncertain Fractional-Order	Control		208	
Harikrishnan and B.	Systems: A Reaching Phase-				
Bandyopadhyay	Free Approach				
S. Kamal, X. Yu, Rahul	Non-Differentiable Function	IEEE Transactions on	66 (11)	1835-	2019
Kumar Sharma, J. Mishra	Tracking	Circuits and Systems		1839	
and S. Ghosh		II: Express Briefs			

(C) Conferences Proceedings

Author(s)	Title of Paper	Title of the Proceedings	Year
S. Kumar, Rahul Kumar	Adaptive Super-Twisting	47 th International Conference of the	2021
Sharma and S. Kamal	Guidance Law with Extended-	IEEE Industrial Electronics Society	
	State Observer		