Curriculum Vitae

Brief Profile:

Dr. Madhukrishna Priyadarsini is working as an assistant professor in the department of CSE in NIT Tiruchirapalli. Her research area includes Software defined network, game theory, computer network and security, and the emerging areas in the above mentioned fields. She has completed her Ph.D. from Indian Institute of Technology Bhubaneswar in 2021. She has Published her research findings in many reputed international journals, conferences, and books. She has research collaboration in Missouri University of Science and Technology, Rolla, USA and Florida International University, USA. She is interested to work with academic researchers and industry collaborators.

Scopus ID- 57201880289

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Google Scholar Profilehttps://scholar.google.com/citations?user=K84iyJAAAAJ&hl=en&oi=sra

- 1. Name: Dr. Madhukrishna Priyadarsini
- 2. Designation: Assistant Professor
- 3. Office Address: Dr. Madhukrishna Priyadarsini, Department of Computer Science and Engineering, National Institute of Technology, Tiruchirapalli, Tamilnadu, India-620015
- 4. Telephone (Direct) (Optional):

Telephone: Extn (Optional):

Mobile (Optional):

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

Email (Secondary): madhukrishna78@gmail.com

6. Field(s) of Specialization: Software-defined Network, Game Theory, Computer network and Security



7. Employment Profile

Job Title	Employer	From	То
Assistant Professor	NIT Trichy	20 th -Oct-2022	Present
Assistant Professor	KIIT deemed to be University, Bhubaneswar, India	18 th -June- 2021	14 th -Oct-2022

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

Examination	Board / University	Year	Division/ Grade	Subjects
Ph.D.	IIT Bhubaneswar	2021		Software-defined Network
M.TECH.	VSSUT, Odisha	2015	First	Computer Science and Engineering
B.TECH.	BPUT, Odisha	2012	First	Information Technology
12 th	CHSE, Odisha	2008	First	Science
10 th	BSE, Odisha	2006	First	General

9. Academic/Administrative Responsibilities within the University

Position	Faculty/Department/Centre/Institution	From	To
NBA Work	Department of CSE	Nov 2022	Present
Member	Anti Ragging Committee	Nov 2022	present

10. Awards, Associateships etc.

Year of Award Name of the Award		Awarding Organization
2016	Winner, IEEE Students Colloquium	IIT Bhubaneswar
2015	Silver Medal in M.TECH	VSSUT, Odisha

11. Fellowships

Year of Award	Name of the Fellowship	Awarding	From	To
		Organization	(Month/Year)	(Month/Year)
2016	MHRD Fellowship	MHRD,	Jan-2016	Sep-2020
	_	Govt. of		_

		India		
2013	AICTE Fellowship	AICTE,	June-2013	May-2015
		Govt. of		
		India		

12. Details of Academic Work

- (i) Curriculum Development: M.TECH CSE NS Course Coordinator in KIIT, DU
- (ii) Courses taught at Postgraduate and Undergraduate levels:

Undergraduate: Computer Networks, Cloud Computing, Programming in C Postgraduate: Network and Security

(iii)Projects guided at Postgraduate level:

An Architectural SDN Framework for Pacemaker Security

(iv)Other contribution(s):

Reviewer in International Journals-

- IEEE Transactions on Dependable and Secure Computing
- IEEE Transactions on Network Science and Management
- Computer Networks
- Computer Security

Program Committee Member in International Conferences-

- Software-defined Systems
- 13. 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,	Event Organized by	Venue
			Any other)		
07- 01- 2020	International Conference on COMmunication Systems and NETworkS (COMSNETS)	International	Paper Presenter	IEEE and ACM	Bangalore
06- 07- 2019	International Conference on Computing, Communication and Networking Technologies (ICCCNT)	International	Paper Presenter	IEEE	IIT Kanpur, India
19-	International	International	Paper	Springer	Silesian

06-	Conference on	Presenter	university
2018	Computer		of
	Networks		Technology,
			Poland

14. 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)			
Workshop(CONNECtERE	Local	24-03-	Organizing	IIT
1.0)		2018	Secretary	Bhubaneswar

15. Invited Talks delivered

Topic	Date	Inviting Organization
Traffic Management and	30-06-2021	IIT Bhubaneswar
Load Balancing in SDN		
Enabling Wireless	06-11-2020	KLE Technological University,
Technology: SDR		Hubballi, Karnataka
Applications		

16. Membership of Learned Societies

Type of Membership (Ordinary	Organization	Membership No. with
Member/ Honorary Member / Life		date
Member)		
Annual Member	IEEE	94046609 (18-02-2022)

17. Publications

(A) Refereed Research Journals:

Author(s)	Title of Paper	Journal	Volume	Page	Year	Impact
			(No.)	numbers		Factor of the
						Journal
						(Optional)
Madhukrishna	A Security	IEEE	25	724-740	2022	7.431
Priyadarsini,	Framework for	Transactions				
Padmalochan	SDN	on				
Bera, Sajal K	Controller	Dependable				
Das,	using Game	and Secure				
Mohammad	Theoretic	Computing				
Ashiqur	Approach					
Rahman						

Madhukrishna Priyadarsini, Padmalochan Bera	Software defined networking architecture, traffic management, security, and placement: A survey	Computer Networks (Elsevier)	192	108047	2021	4.474
Madhukrishna Priyadarsini, Padmalochan Bera, Shailesh Kumar, MA Rahman	An energy- efficient load distribution framework for SDN controllers	Computing (Springer)	102	2073- 2098	2020	2.420
Madhukrishna Priyadarsini, Joy Chandra Mukherjee, Padmalochan Bera, Shailesh Kumar, AHM Jakaria, MA Rahman	An adaptive load balancing scheme for software-defined network controllers	Computer Networks (Elsevier)	164	106918	2019	4.474
Madhukrishna Priyadarsini, Padmalochan Bera	A secure virtual controller for traffic management in SDN	IEEE Letters of the Computer Society	2	24-27	2019	2.521

(B) Conferences/Workshops/Symposia Proceedings

Author(s)	Title of	Title of the	Page	Conference	Venue	Year
	Abstract/	Proceedings	numbers	Theme		
	Paper					
Madhukrishna	An SDN	In: Proceedings	127-139	Distributed	KIIT	2022
Priyadarsini,	Implemented	of International		Computing and	Deemed to	
Padmalochan	Adaptive	Conference on		Internet	be	
Bera	Load	Distributed		Technology	University,	
	Balancing	Computing and			India	
	Scheme for	Internet				
	Mobile	Technology				
	Networks					
Madhukrishna	Smart City	In: Proceedings	794-799	COMmunication	Chancery	2020
Priyadarsini,	Renovation	of International		Systems &	Pavilion,	

Pooja Mittal, Padmalochan Bera	using SDN Framework	Conference on COMmunication Systems & NETworkS		NETworkS	Bangalore, India	
Madhukrishna Priyadarsini, Padmalochan Bera, MA Rahman	A Signaling Game-Based Enforcement Mechanism for SDN Controllers	In: Proceedings of International Conference on Computing, Communication and Networking Technologies	1-7	Communication and Networking Technologies	IIT Kanpur, india	2019
Madhukrishna Priyadarsini, Padmalochan Bera, MA Rahman	A new approach for energy efficiency in software defined network	In: Proceedings of International Conference on Software Defined Systems	67-73	Software Defined systems	Barcelona, Spain	2018
Madhukrishna Priyadarsini, Padmalochan Bera	A new approach for SDN performance enhancement	In: Proceedings of International Conference on Computer Networks	115-129	Computer Networks	Silesian university of Technology, Poland	2018
Madhukrishna Priyadarsini, Padmalochan Bera, Rohan Bampal	Performance analysis of software defined network controller architecture- A simulation based survey	In: Proceedings of International conference on Wireless Communications, Signal Processing and Networking	1929- 1935	Wireless Communications, Signal Processing and Networking	Chennai, India	2017

(C) Books & Monographs

Author(s)	Title of	Name of	Year of	ISSN/ISBN
	Book/Monograph	Publishers	Publication	Number
Madhukrishna	Internet of Things and	CRC Press	2020	9780367276706
Priyadarsini,	Secure Smart	(Taylor and		
Padmalochan	Environments Successes	Francis Group)		
Bera	and Pitfalls			
Madhukrishna	Traffic Management in	Scholars' Press	2019	978-613-8-
Priyadarsini,	SDN- A Road map to			91376-4
Padmalochan	Research			
Bera				