

National Institute of Technology, Tiruchirappalli: Performa for CV of Faculty/ Staff Members

Curriculum Vitae



Sai Krishna Mothku received the B.Tech degree in Computer Science and Engineering in 2009 from Kakatiya Institute of Technology and Science (KITS), Warangal, Telangana, India and M.Tech degree in Computer Science and Engineering-Information Security in 2012 from the National Institute of Technology, Surathkal, Karnataka, India. He received Ph.D. degree from the National Institute of Technology, Warangal, Telangana, India in 2019. Currently, he is an assistant professor in the Department of Computer Science and Engineering, National Institute of Technology, Tiruchirappalli, India. His primary research includes Wireless ad-hoc networks, Wireless sensor networks, Internet of things, Cloud, Fog and Edge computing.

1. Name: **Sai Krishna Mothku**
2. Designation: Assistant Professor (Grade-II)
3. Office Address: Department of Computer Science and Engineering,
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4. Telephone (Direct) (Optional):
Telephone: Extn (Optional):
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5. Email (Primary): saikrishna@nitt.edu, Email (Secondary): skmothku@gmail.com
6. Field(s) of Specialization:

Wireless ad-hoc Networks, Wireless Sensor Networks,
Internet of Things, Cloud, Fog and Edge Computing

7. Employment Profile

Job Title	Employer	From	To
Assistant Professor	NIT Tiruchirappalli	18-May-2020	Till date
Assistant Professor	Vardhaman College of Engineering, Hyderabad	10-Dec-2018	30-April-2020
Adhoc Faculty	NIT Warangal	26-Aug-2013	10-Dec-2013

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Assistant Professor	GITAM University, Hyderabad	03-Dec-2012	05-May-2013
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8. Academic Qualifications (From Highest Degree to High School):

Examination	Board / University	Year	Division/ Grade	Subjects
Ph. D.	NIT Warangal	2019		Wireless Sensor Networks
M.Tech.	NIT Surathkal	2012	I class	Computer Science and Eng. - Information Security
B.TECH.	Kakayiya Institute of Technology and Science, Warangal	2009	I class	Computer Science and Eng.

9. Academic/Administrative Responsibilities within the University

Position	Faculty/Department/Centre/Institution	From	To
Member	Ph.D. admissions scrutiny, CSE	July-2020	Dec-2021
Member	B.Tech Project Evaluation Committee, CSE	July-2021	May-2022
Treasurer	Computer Science and Engineering Association	July-2021	Till Date
Faculty Advisor	Wild Life Club	July-2021	Till Date
Member	National Supercomputing Mission	Jan-2021	Till Date
Member	Studio Equipment Committee, MOOCs	Aug-2021	Till Date

10. Academic/Administrative Responsibilities outside the University

Position	Institution	From	To
Member (Ph.D. Doctoral Committee)	VIT University, A.P	2021	Till Date

11. Awards, Associateships etc.: NIL

Year of Award	Name of the Award	Awarding Organization

12. Fellowships: NIL

Year of Award	Name of the Fellowship	Awarding Organization	From (Month/Year)	To (Month/Year)

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13. Details of Academic Work

(i) Curriculum Development

(ii) Courses taught at Postgraduate and Undergraduate levels

- Data Structures and Algorithms, Data Communications and Networks, Cloud Computing, Soft Computing, Pervasive Computing, C Programming, Network Security, Mobile Application Development, Network Programming.

(iii) Projects guided at Postgraduate level

- 3 Postgraduate projects guided so far

(iv) Other contribution(s)

- Department NBA work

- Purchase initiator for lab equipments

14. Details of Major R&D Projects: NIL

Title of Project	Funding Agency	Duration		Status
		From	To	Ongoing/ Completed

15. Number of PhDs guided: NIL

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

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
30th may - 8th June, 2016	Wireless Sensor Networks: Network Architectures, Protocols and Applications	International	Participant	NIT Warangal	NIT Warangal
11th-15th May, 2015.	Wireless Sensor Networks and Internet of Things	National	Participant	IIT Kharagpur	IIT Kharagpur

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

Title of Activity	Level of Event (International/ National/ Local)	Date (s)	Role	Venue
Machine Learning- Concepts and Applications	National	19 th -23 rd April- 2021	Coordinator	CSE, NIT Trichy (Online mode)
Recent Trends in Cyber Security and Forensics	National	26 th -30 th April- 2021	Coordinator	CSE, NIT Trichy (Online mode)
Research Trends in Wireless Sensor Networks	National	7 th -16 th March - 2022	Coordinator	CSE, NIT Trichy (Online mode)

18. Invited Talks delivered

Topic	Date	Inviting Organization
Wireless Sensor Networks and Internet of Things	30-July- 2020	KITS Warangal
Reinforcement Learning for IoT	12-June-2021	NIT Warangal
Reinforcement Learning and Its Applications	12-May-2022	NIT Warangal

19. Membership of Learned Societies

Type of Membership (Ordinary Member/ Honorary Member / Life Member)	Organization	Membership No. with date
Ordinary Member	IEEE	93789305

20. Academic Foreign Visits: NIL

Country	Duration of Visit	Programme

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21. Publications

(A) Refereed Research Journals: Please see the Annexure

Author(s)	Title of Paper	Journal	Volume (No.)	Page numbers	Year	Impact Factor of the Journal (Optional)
Rashmi Ranjan Rout, Mothku Sai Krishna and Shalinee Gupta	Markov Decision Process Based Switching Algorithm for Sustainable Rechargeable Wireless Sensor Networks	IEEE Sensors Journal	16(8)	2788-2797	2016	4.325
Sai Krishna Mothku and Rashmi Ranjan Rout	Adaptive buffering using Markov Decision Process in tree-based Wireless Sensor and Actor Networks	Computers & Electrical Engineering, Elsevier	71	901-914	2018	4.152
Sai Krishna Mothku and Rashmi Ranjan Rout	Markov Decision Process and Network Coding for Reliable Data Transmission in Wireless Sensor and Actor Networks	Pervasive and Mobile Computing, Elsevier	56	29-44	2019	3.848
Sai Krishna Mothku and Rashmi Ranjan Rout	Adaptive Fuzzy-Based Energy and Delay-Aware Routing Protocol for a Heterogeneous Sensor Network	Journal of Computers and Communications, Hindawi	Volume 2019, Article ID 3237623	11 pages	2019	-
Sai Krishna Mothku and Rashmi Ranjan Rout	Fuzzy Logic Based Adaptive Duty Cycling for Sustainability in Energy	Journal of King Saud University -	34(1)	1489-1497	2022	8.839

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	Harvesting Sensor Actor Networks	Computer and Information Sciences				
Manoj Kumar Somesula, Anusha Kotte, Sudarshan Chakravarthy A, and Sai Krishna Mothku	User Preference Learning based Cooperative Cache Placement for Mobile Edge Networks with Adaptive User Clustering	Mobile Networks and Applications, Springer	Manuscript Number: MONE-D-22-00042 (Accepted – In Press) DOI:10.1007/s11036-022-02010-9			3.426

(B) Conferences/Workshops/Symposia Proceedings

Author(s)	Title of Abstract/ Paper	Title of the Proceedings	Page numbers	Conference Theme	Venue	Year
Rashmi Ranjan Rout, Sai Krishna Mothku and S. K. Ghosh	Energy Efficient Relaying using Network Coding for Inter-Cluster Communication in Sensor Networks	9th IEEE International Conference on Industrial and Information Systems (IEEE ICIIS2014)			Indian Institute of Information Technology and Management, Gwalior, India	2014
Utkarsh Sonpatki, Sai Krishna Mothku and Rashmi Ranjan Rout	A Congestion-Aware Routing Protocol for Voluminous Data Collection in Wireless Sensor Networks	Conference on Information and Communication Technology 2018 (CICT 2018)			PDPM-Indian Institute of Information Technology, Design and Manufacturing, Jabalpur, India	2018

(C) Books & Monographs: NIL

Author(s)	Title of Book/Monograph	Name of Publishers	Year of Publication	ISSN/ISBN Number