

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

## Curriculum Vitae



Brief Profile: 1-2 paragraphs (not exceeding 500 words)

Dr. P. Maheswaran obtained his PhD from IITDM Kancheepuram in the area of wireless communication. At present, he is serving as an Assistant Professor in the Dept. of ECE, National Institute of Technology, Tiruchirappalli.

Between 2011 and 2013, he was with Tata Consultancy Services as a Systems Engineer. He briefly served as an Assistant Professor in the Dept. of ECE, SRM Institute of Science and Technology, Chennai from 2017 to 2018. From 2019 to 2020, we was with IIT Madras as a postdoctoral fellow. His research areas include wireless communication, signal processing, cooperative communication, MIMO communication system, index modulation, spatial modulation, and OTFS.

1. Name Dr. P. Maheswaran
2. Designation: Assistant Professor
3. Office Address: Department of ECE  
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Tamil Nadu, India - 620015.
4. Telephone (Direct) (Optional):  
Telephone : +91 431 250 3326 Extn (Optional):  
Mobile (Optional):
5. Email (Primary): [mahes@nitt.edu](mailto:mahes@nitt.edu) Email (Secondary) :
6. Field(s) of Specialization: Wireless Communications
7. Employment Profile

Job Title	Employer	From	To
Assistant Professor	National Institute of Technology, Tiruchirappalli	22-05-2020	Present
Institute Postdoctoral Fellow	Indian Institute of Technology Madras	03-12-2018	19-05-2020
Assistant Professor	SRM Institute of Science and Technology, Chennai	27-12-2017	29-11-2018

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Systems Engineer	Tata Consultancy Services	13-06-2011	26-07-2013
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### 8. Academic Qualifications (From Highest Degree to High School):

Examination	Board / University	Year	Division/ Grade	Subjects
Ph. D.	Indian Institute of Information Technology, Design and Manufacturing, Kancheepuram	2018		Wireless Communication
M.E.	Anna University Chennai	2011	First class	Communication Systems
B.E.	Anna University Chennai	2009	First class	Electronics and Communication Engineering
12 <sup>th</sup>	State Board	2005	First class	Math, Physics, Chemistry, and Biology
10 <sup>th</sup>	State Board	2003	First Class	

### 9. Academic/Administrative Responsibilities within the University

Position	Faculty/Department/Centre/Institution	From	To
Member, DPEC - PG Communication Systems, Dept. of ECE, NIT Tiruchirappalli.	Dept. of ECE, NIT Tiruchirappalli	2022	2023
Member, Convocation Programme Committee	NIT Tiruchirappalli	2021	2022
Faculty advisor, B.Tech. (ECE)	Dept. of ECE, NIT Tiruchirappalli	2020	2024
Member, MOOCs sub-committee, Centre for Emerging Online and Continuing Education Programs	Dept. of ECE, NIT Tiruchirappalli	2021	2021

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Member, NBA (PG and UG) accreditation committee	Dept. of ECE, NIT Tiruchirappalli	2020	Present
Member, PhD admission committees (QIP, QIP-Poly, ICCR, and Institute)	Dept. of ECE, NIT Tiruchirappalli	2020	Present
Member, MS admission committee	Dept. of ECE, NIT Tiruchirappalli	2020	Present

### 10. Academic/Administrative Responsibilities outside the University

Position	Institution	From	To

### 11. Awards, Associateships etc.

Year of Award	Name of the Award	Awarding Organization
2012	On the spot award	Tata Consultancy Services, Chennai
2012	Performance band of 'A'	Tata Consultancy Services, Chennai

### 12. Fellowships

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

### 13. Details of Academic Work

- (i) Curriculum Development
- (ii) Courses taught at Postgraduate and Undergraduate levels

**UG Level:**

Electronic Circuits.  
 Electronic Circuits laboratory.  
 Satellite Communication.  
 Analog Integrated Circuits.  
 Basics of Electrical and Electronics Engineering.

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Digital Signal Processing for Wireless Communications.

(iii) Projects guided at Postgraduate level

(iv) Other contribution(s)

### 14. Details of Major R&D Projects

Title of Project	Funding Agency	Duration		Status
		From	To	Ongoing/ Completed
Performance Analysis of Reconfigurable Intelligent Surfaces in High Altitude Platform Stations with Orthogonal Time Frequency and Space	NIT Tiruchirappalli	2021	2023	Ongoing
Orthogonal Time Frequency Space Modulation based Index Modulation for 6G Communication Systems	SERB	2022	2024	Ongoing

### 15. Number of PhDs guided

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

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

Title of Activity	Level of Event (International/ National/ Local)	Date (s)	Role	Venue
KARYASHALA (High-End Workshop) on “Methods and Tools for Effective Dissemination of Research Ideas and Findings”	National	June 14-20, 2021	Convener	NIT Tiruchirappalli

### 18. Invited Talks delivered

Topic	Date	Inviting Organization
“Introduction to Inkscape” and “Introduction to GNU Plot”	18 – 24 Jul. 2022	Indian Institute of Information Technology Kottayam
Orthogonal Time Frequency Space Modulation for Vehicular Communications	13 – 19 Jul. 2022	IIT Indore, India
Transmit diversity schemes for spatial modulation	13 – 24 Jun. 2022	NIT Tiruchirappalli
On Spatial Modulation and Space Shift Keying	17 – 23 Mar. 2022	IIT Indore, India
MATLAB simulation of Spatial Modulation and Space Shift Keying	28 Feb. – 4 Mar. 2022	IIITDM Kancheepuram, India
On Spatial Modulation and Space Shift Keying	27 – 31 Jan. 2022	Indian Institute of Information Technology Allahabad
MIMO Spatial Multiplexing	24 – 31 Jan. 2022	Thiagarajar College of Engineering, Madurai, India
Spatial Modulation	4 – 8 Oct. 2021	IIITDM Kancheepuram, Chennai, India
Spatial Modulation for 5G Wireless Networks	23 – 24 Aug. 2021	Nehru Institute of Engineering and Technology, Coimbatore, India
Spatial Modulation MIMO Systems	26 Apr. – 1 May 2021	Gokaraju Rangaraju Institute of Engineering and Technology, India
Time Successive SSK-M-	19 – 23 Apr. 2021	National Institute of Technology,

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ary Modulation for Second Order Transmit Diversity		Tiruchirappalli, India
Time Successive SSK-M-ary Modulation for Second Order Transmit Diversity	24 – 26 Dec. 2020	Indian Institute of Technology Indore
Spatial Modulation Techniques	17 - 29 Aug. 2020	Erode Sengunthar Engineering College, Erode, India
Transmit Diversity Schemes for Spatial Modulation	14 - 15 Feb. 2020	College of Engineering, Guindy, Anna University, Chennai, India
Adhoc and sensor networks	Dec. 2019	University College of Engineering Kancheepuram, Anna University, India
Spatial Modulation and Space Shift Keying	Jun. 2016	IIITDM Kancheepuram, Chennai, India

19. Membership of Learned Societies

Type of Membership (Ordinary Member/ Honorary Member / Life Member )	Organization	Membership No. with date
Member	IEEE	92900027

20. Academic Foreign Visits

Country	Duration of Visit	Programme
Czech Republic	Aug. 26–30, 2019	Represented IIT Madras as a delegate in RAN1 meeting held at Prague
China	Apr. 8–12, 2019	Represented IIT Madras as a delegate in RAN1 meeting held at Xi'an
UK, Scotland	Jul. 8–Jul. 21, 2015	Visiting research student at the University of Edinburgh. Supported by UK-India Education and Research Initiative (UKIERI) Thematic Partnerships grant.
UK, Scotland	Jul. 1–Aug. 1, 2014	Visiting research student at the University of Edinburgh. Supported by UK-India Education and Research

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		Initiative (UKIERI) Thematic Partnerships grant.
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21. Publications

(A) Refereed Research Journals:

Author(s)	Title of Paper	Journal	Volume (No.)	Page numbers	Year	Impact Factor of the Journal (Optional)
P. Maheswaran and M. D. Selvaraj	Analysis of Selection Combining Receiver Performance for Time Successive SSK-M-ary Modulation	IEEE Wireless Communications Letters	vol. 9, no. 9	pp. 1581–1585	2020	
P. Maheswaran and M. D. Selvaraj	Cooperative Time Successive SSK-M-ary Modulation for Decode-and-Forward Relay Systems	IEEE Transactions on Vehicular Technology	vol. 69, no. 1	pp. 537–551	2020	
P. Maheswaran and M. D. Selvaraj	Dynamic SSK-BPSK System under Transmitter Correlated Non-identical Rayleigh Fading	IEEE Systems Journal	vol. 13, no. 2	pp. 1202–1209	2019	
P. Maheswaran and M. D. Selvaraj	Multi RF Chain Time Successive Space Shift Keying-M-ary Modulation: A Transmit Diversity Scheme	IEEE Transactions on Vehicular Technology	vol. 66, no. 8	pp. 7086–7097	2017	
P. Maheswaran and M. D. Selvaraj	Performance Analysis of Feedback Based	IEEE Wireless Communic	vol. 5, no. 1	pp. 96–99	2016	

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Selvaraj	Dynamic SSK-BPSK System	ations Letters				
P. Maheswaran and M. D. Selvaraj	Time Successive SSK-MPSK: A System Model to Achieve Transmit Diversity	IEEE Communic ations Letters	vol. 19, no. 9	pp. 1496–1499	2015	

(B) Conferences/Workshops/Symposia Proceedings

Author(s)	Title of Abstract/ Paper	Title of the Proceedings	Page numbers	Conference Theme	Venue	Year
K. Bharati, P. Maheswaran	A Scalable Block-Proportional Fair Scheduling Scheme For Multi-Carrier Transmission Systems	13th International Conference on Communication Systems & Networks (COMSNETS 2021)				2021
P. Maheswaran, A. Ananth, and M. D. Selvaraj	Simplified Performance Analysis of Space Shift Keying Selection Combining with Reconfigurable Antennas	2020 International Conference on Signal Processing and Communications (SPCOM), IISc Bangalore			Bangalore	2020
P. Maheswaran and M. D. Selvaraj	On Multi RF chain Time Successive SSK-M-ary Modulation Transmitter	2020 IEEE National conference on communications (NCC), IIT-Kharagpur.			IIT-Kharagpur	2020



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A. Ananth, P. Maheswaran and M. D. Selvaraj	Scaled Selection Combining for SSK in Decode and Forward Cooperative Relaying	IEEE International Conference on Advanced Networks and Telecommunication Systems (ANTS) 2019, BITS Pilani, Goa			BITS Pilani, Goa	2019
A. Ananth, P. Maheswaran and M. D. Selvaraj	Generalized Selection Combining for Dynamic SSK-BPSK Systems	2019 IEEE National conference on communications (NCC), IISc			Bangalore	2019
P. Maheswaran and M. D. Selvaraj	Performance Analysis of Symbol Swapped Spatial Modulation	2017 IEEE National conference on communications (NCC), IIT-Madras			IIT Madras	2017
P. Maheswaran and M. D. Selvaraj	On the Transmit Diversity of Time Successive SSK-BPSK System	2016 IEEE National conference on communications (NCC), IIT-Guwahati			IIT-Guwahati	2016

**(C) Books & Monographs**

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