

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

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**Curriculum Vitae**

Brief Profile: Dr. I. Jeyaraman received his Ph.D. degree in Mathematics from Indian Institute of Technology (IIT) Madras in July 2011. Then he was a Post Doctoral Fellow at Institute of Mathematical Sciences (IMSc), Chennai from August 2011 to July 2013. He was also selected for the National Board for Higher Mathematics (NBHM) Post Doctoral fellowship.



His topic of research is complementarity problems over symmetric cones which includes the standard, semidefinite and second order linear complementarity problems. He has published papers in internationally reputed journals.

Dr. I. Jeyaraman joined as an Assistant Professor in the Department of Mathematics, NIT Tiruchirappalli in June 2018. Before joining NIT Tiruchirappalli, he worked as an Assistant Professor at NIT Surathkal, Karnataka for 4 years and Alagappa Chettiar Government college of Engineering and Technology, Karaikudi for 1 year.

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2. Designation: Assistant Professor
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Email (Secondary) : [jeyaraman.iitm@gmail.com](mailto:jeyaraman.iitm@gmail.com)
6. Field(s) of Specialization: Complementarity Problems,  
Linear Algebra
7. Employment Profile

Job Title	Employer	From	To
Assistant Professor	NIT Tiruchirappalli	12 - 06 - 2018	Till date
Assistant Professor	Alagappa Chettiar Government College of Engineering and Technology, Karaikudi	11 - 08 - 2017	11 - 06 - 2018
Assistant Professor	NIT Surathkal, Karnataka.	08 - 07 - 2013	09 - 08 - 2017

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

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

Examination	Board / University	Year	Division/ Grade	Subjects
Ph.D.	IIT Madras	2011	-	Mathematics
M.Phil.	Ayya Nadar Janaki Ammal College, Sivakasi (Madurai Kamaraj University)	2005	First	Mathematics
M. Sc.	Ayya Nadar Janaki Ammal College, Sivakasi(Madurai Kamaraj University)	2004	First	Mathematics
B.Sc.	Ayya Nadar Janaki Ammal College, Sivakasi(Madurai Kamaraj University)	2002	First	Mathematics
HSC (12th Std)	SHNV Hr. Sec. School, Sivakasi (Tamil Nadu State Board)	1999	First	Maths, Physics, Chemistry, Biology
SSLC (10th Std)	SHNV Hr. Sec. School, Sivakasi (Tamil Nadu State Board)	1997	First	Maths, Science, Social Science

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

Position	Faculty/Department/Centre/Institution	From	To
Warden	Institute	25-01-2020	Till date
Coordinator-Workload committee	Maths Department	12-02-2020	Till date
Member – Academic and Welfare committees	Maths Department	12-02-2020	Till date
Faculty Advisor of Maximus club	Institute	July 2018	June 2021

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

Position	Institution	From	To
-	-	-	-

### 11. Awards, Associateships etc.

Year of Award	Name of the Award	Awarding Organization
-	-	-

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

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12. Fellowships

Year of Award	Name of the Fellowship	Awarding Organization	From (Month/Year)	To (Month/Year)
2005	Junior Research Fellowship (JRF)	CSIR	July 2006	June 2008
2008	Senior Research Fellowship (SRF)	CSIR	July 2008	June 2011
2011	Post Doctoral Fellowship	IMSc, Chennai	August 2011	July 2013

13. Details of Academic Work

(i) Curriculum Development – -

(ii) Courses taught at Postgraduate and Undergraduate levels

- a) Matrices and Calculus
- b) Complex Analysis and Differential Equations
- c) Operations Research
- d) Linear Algebra
- e) Discrete Mathematics
- f) Numerical Methods

(iii) Projects guided at Postgraduate level

Title	Student Name	Year
Schur Complement	Pankaj Kumar Singh	2020-21
Adjacency and Incidence Matrices	Priyakshi Nath	2021-22

(iv) Other contribution(s) -

14. Details of Major R&D Projects

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

15. Number of PhDs guided

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

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

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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
May 11 – 15, 2020	Training programme on “E- content development”	Local	Participant	NITTTR, Chennai	Online
May 15-19, 2019	short term course on “Numerical Analysis using Matlab”	National	Participant	NIT Tiruchirappalli	NIT Tiruchirappalli
June 21- 23 2018.	Faculty Development Programme on “Teaching”	Local	Participant	IIT Madras	NIT Tiruchirappalli
Sep 24-25, 2016	Mini workshop on linear complementarity problem & generalizations	National	Participant and Speaker	IIT Madras & ISI Chennai	ISI Chennai
July 4-23, 2016	Advanced Instructional School on Mathematical Programming	National	Speaker	Central University of Tamilnadu	Central University of Tamilnadu
June 6-8, 2016	Game Theory & Optimization workshop	National	Speaker	IIT Madras & ISI Chennai	IIT Madras
Aug 19-24, 2012	21 <sup>st</sup> International symposium on Mathematical Programming	International	Participant and Paper Presenter	Mathematical Optimization Society	Technical University Berlin, Germany
Jan 3-7, 2012	International conference on Game Theory, Operations Research & their applications	International	Participant and Paper Presenter	ISI Chennai	ISI Chennai

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

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Oct 11-15, 2010	National Meet of Research Scholars in Mathematical Sciences	National	Participant	IIT Madras	IIT Madras
Aug 19-27, 2010	The International Congress of Mathematicians (ICM)	National	Participant	International Mathematical Union	Hyderabad
Dec 27-30, 2009	75th Annual Conference of the Indian Mathematical Society	National	Participant and Paper Presenter	Indian Mathematical Society	Kalasalingam University, Krishnankoil
Sep 3-6, 2008	Research workshop in Optimization theory and Applications	National	Participant	IIT Kanpur	IIT Kanpur
Dec 17-20, 2007	National Symposium on Applications of Statistics and Operations Research in Indian Industries	National	Participant	ISI Hyderabad	ISI Hyderabad
Feb 19-23, 2007	Instructional Conference on Singular Value Decomposition and its applications	National	Participant	ISI Hyderabad	ISI Hyderabad
Nov 26-28, 2004	Workshop on Discrete Dynamical Systems	National	Participant	Hyderabad Central University	Hyderabad Central University

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

Title of Activity	Level of Event (International/ National)	Date (s)	Role	Venue
Five Days National level workshop on Algebra, Analysis and Differential Equations	National	14-18, June, 2021	Coordinator	NIT Tiruchirappalli
National Conference on Mathematical Analysis and Applications	National	23-24, April 2021.	Secretary	NIT Tiruchirappalli
International Workshop and conference on Mathematical Analysis and Computation	International	02 – 06 December, 2019	Secretary	NIT Tiruchirappalli

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

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### 18. Invited Talks delivered

Topic	Date	Inviting Organization
Minimal Polynomial & Diagonalization of a Matrix	07-10-2021	Mepco Schlenk Engineering College, Sivakasi
M-matrices	28-05-2021	Sree Sevugan Annamalai College, Devakottai
Basics of Mathematics	21-01-2020	H.H. The Rajah's college, Pudukkottai
Problem solving in Algebra and Analysis	07-01-2020	PSGR Krishnammal College for women, Coimbatore
Cone Complementarity Problems	28-08-2019	Raja Doraisingam Govt. Arts College, Sivagangai
Diagonalization of a matrix and its applications	23-12-2018	Alagappa Chettiar Government College of Eng & Tech, Karaikudi
Maxima and Minima of functions of several variables	01-11-2018	Coimbatore Institute of Technology Coimbatore
Convex Functions	15-09-2018	Ayya Nadar Janaki Ammal College, Sivakasi
An introduction to linear programming problems	14-03-2017	NGM College, Pollachi.
Linear Complementarity problems	03-11-2016	NIT Surathkal, Karnataka.
The linear complementarity problems	22-09-2016	ERK Arts and Science College, Erumiyampatti.

### 19. Membership of Learned Societies

Type of Membership (Ordinary Member/ Honorary Member / Life Member )	Organization	Membership No. with date
Life Member	Ramanujan Mathematical Society	Mem No: 1040
Life Member	Indian Mathematical Society	Mem No: L/2015/15

### 20. Academic Foreign Visits

Country	Duration of Visit	Programme
Germany	August 19 – 24, 2012	Delivered a talk-21st International Symposium on Mathematical Programming

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

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21. Publications

(A) Refereed Research Journals:

Author(s)	Title of Paper	Journal	Volume (No.)	Page numbers	Year
I. Jeyaraman and V. Vetrivel	Jordan quadratic SSM-property and its relation to copositive linear transformations on Euclidean Jordan algebras	Linear Algebra and its Applications	433	390-400	2010
I. Jeyaraman and V. Vetrivel	On the Lipschitzian property in linear complementarity problems over symmetric cones	Linear Algebra and its Applications	435	842-851	2011
I. Jeyaraman, K.C.Sivakumar and V. Vetrivel	Stein Linear Programs over Symmetric Cones	Int. Game Theory Review	15	1340033 14pp	2013
J. Tao, I. Jeyaraman & G.Ravindran	More results on column sufficiency property in Euclidean Jordan algebras	Annals of Operations Research	243	229-243	2016
I. Jeyaraman and K.C.Sivakumar	Complementarity properties of singular M-matrices	Linear Algebra and its Applications	510	42-63	2016
I. Jeyaraman, Kavita Bisht and K.C.Sivakumar	Extension of P-property, $R_0$ property and semidefinite linear complementarity problems	Yugoslav Journal of Operations Research	27	135-151	2017

(B) Conferences/Workshops/Symposia Proceedings

Author(s)	Title of Abstract/ Paper	Title of the Proceedings	Page numbers	Conference Theme	Venue	Year
-	-	-	-	-	-	-

(C) Books & Monographs

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