

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

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## Curriculum Vitae



**Brief Profile: 1-2 paragraphs (not exceeding 500 words):** Hello! My name is Alphonse P.J.A., working as a Professor in Department of Computer Applications, National Institute of Technology, Tiruchirappalli, Tamil Nadu, and INDIA with more than 24 years of Teaching experience and 26 years of Research experience. Currently, I am heading the Computer Applications Department. I have been involved in various administrative activities such as Associate Dean, Additional Chief Warden, Sports Convener, NSS officer, All INDIA Admission Counselling Coordinator, Faculty In charge of various notable events. I have carried out lot of projects in all my administrative works. Also, I have published more than 50 papers in reputed international journals and conferences. I carried out a good amount of Research & Consultancy Projects funded by central/state Government agencies and Insustries such as ISRO, MHRD, Smart City Ltd etc.. Currently working in the following fields of research: Healthcare Analytics, Image, Video and Signal Processing, Cryptography, Wireless Adhoc Networks, Social Network Analysis, Graph and their Algorithms.

1. Name : Dr. Alphonse PJA
2. Designation : Professor
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5. Email (Primary) : [alphonse@nitt.edu](mailto:alphonse@nitt.edu)
- Email (Secondary) : [pjaalphonse@gmail.com](mailto:pjaalphonse@gmail.com)
6. Field(s) of Specialization: : Healthcare Analytics, Image, Video and Signal Processing, Cryptography, Wireless Adhoc Networks, Social Network Analysis, Graph and their Algorithms.

### 7. Employment Profile

Job Title	Employer	From	To
National Institute of Technology, Tiruchirappalli	Professor (AGP10000)	01-04-2018	Till Date
National Institute of Technology, Tiruchirappalli	Associate Professor (AGP9000)	01-07-2012	31-03-2018
National Institute of Technology, Tiruchirappalli	Assistant Professor (AGP8000)	01-07-2009	30-06-2012
National Institute of Technology, Tiruchirappalli	Assistant Professor (AGP7000)	14-02-2004	30-06-2009
National Institute of Technology, Tiruchirappalli	Lecturer	18-01-2000	13-02-2004
National Institute of Technology, Tiruchirappalli	Research /Teaching Associate	26-06-1998	17-01-2000

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

Examination	Board / University	Year	Division/ Grade	Subjects
<b>Ph.D.</b>	NIT, Trichy		-	Mathematics & Computer Science
<b>M.Tech.</b>	IIT, Delhi		First Class	Computer Science
<b>B.Tech.</b>	SRM University, Chennai		First Class	ECE
<b>MCA</b>	Madurai Kamaraj University		First Class	Computer Applications
<b>M.Phil.</b>	Aditanar college, Thiruchendhur		First Class	Mathematics
<b>M.Sc</b>	St.Xavier's College, Palayamkottai		First Class	Mathematics
<b>B.Sc.,</b>	St.Xavier's College, Palayamkottai		First Class	Mathematics

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

Position	Faculty/Department/Centre/Institution	From	To
Head of the Department	Department	January 2020	Till
Additional Chief Warden	Institution	July 2019	June 2021
Associate Dean (Student Welfare)	Institution	October 2012	January 2016
MIS committee	Institution	2011	2012
Stock verification committee	Institution	2003	2006
Investigation officer-CVO	Institution	2005	2006
Sports committee member	Institution	2002	Till
Convocation committee	Institution	2006 & 2011	2006 & 2011
Prizes committee	Institution	2006 & 2011	2006 & 2011
Purchase committee	Institution	2006 & 2011	2006 & 2011
FESTEMBER, PRAGYAN, NITFEST	Institution	2012	2016
PAC chairman	Department	2005, 2006, 2008, 2009, 2011	2005, 2006, 2008, 2009, 2011
Sports Convener	Institution	2010	2016
AIEEE coordinator	Institution	2004	2006
NSS officer	Institution	2005	2006
Staff Advisor for PRAGYAN	Institution	2006, 2013, 2014, 2015	2006, 2013, 2014, 2015
Staff In-Charge for cultural committee	Institution	2006, 2013, 2014, 2015	2006, 2013, 2014, 2015
Staff Advisor for NITT Fest	Department	2013	2015
coordinator for Inter NIT Sports Meet	Institution	2012	2013
Faculty In-charge	Department	09-03-2015	25-11-2017
Faculty In-charge	Department	19-02-2013	06-03-2015
Faculty In-charge	Department	07-05-2009	08-03-2012
Coordinator-MCA/MSc, & CA Admission Committee	Department	17-07-2013	14-08-2014
Coordinator-Purchase Committee	Department	16-02-2016	10-11-2017
Course Coordinator-MCA	Department	11-06-2015	24-06-2016
Chairman-Performance Analysis Committee	Department	15-06-2012	28-12-2012
Chairman-Performance Analysis Committee	Department	17-07-2014	26-12-2014

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

Position	Institution	From	To
Inter NIT sports meet committee	Warangal	2005	2005
Inter NIT sports meet committee	NIT Rourkela	2006	2006
Inter NIT sports meet committee	NIT Nagpur	2006	2006

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Inter NIT sports meet committee	ITBHU	2009	2009
Inter NIT sports meet committee	BITs	2011	2011
AIEEE Coordinator	Tamil Nadu, Karnataka	2004	2006
Board of Studies (BoS) Member	Sona Engineering College, Selam	2018	2019
Board of Studies (BoS) Member	NGP Arts and Science College, Coimbatore	2018	2019
Faculty Recruitment Board Member	<u>Alagappa</u> <u>University,</u> <u>Karaikudi</u>	2018	2018
NIMCET Exam Coordinator	NIT, Raipur	2020	2020

11. Awards, Associateships etc.

Year of Award	Name of the Award	Awarding Organization
2021	Best Performance Award	NIT Trichy, Tiruchirappalli.
2017	Best Paper Award	IEEE International Conference on Computational Intelligence & Computing Research, IEEE, Podhigai.
2017	Best Researcher	International Science Congress, Thailand.

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
- (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
NLP/Embeddings and Reinforcement Learning	Conde Nast (India) Private Limited	1st Nove mber 2021	31st October 2024	Ongoing/18,32,276/-

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Implementation of SCADA system at Tirunelveli Zone (Phase I)	Project Management Consultancy	04-01-2021	03-06-2022	Ongoing/11.77 Lakhs
Implementation of SCADA system at Palayamkottai Zone (Phase II)	Project Management Consultancy	04-01-2021	03-06-2022	Ongoing/11.77 Lakhs
Implementation of SCADA system at Thatchanallur Zone (Phase III)	Project Management Consultancy	04-01-2021	03-06-2022	Ongoing/12.01 Lakhs
Implementation of SCADA system at Melapalayam Zone (Phase IV)	Project Management Consultancy	04-01-2021	03-06-2022	Ongoing/12.29 Lakhs
A Study on Heat Transfer Characteristics of Low melt Alloy Encapsulated PCM for Satellite Avionics-Thermal Management	ISRO	05-05-2017	17-05-2020	Completed / 31.30 Lakhs
Big Data & Cloud Computing	IDRBT	07-07-2017	16-12-2021	Completed/ 15 Lakhs
Advanced Research Lab-II Information Security Lab under FIST Program	DST	16-12-2016	16-12-2021	Completed / 100 Lakhs
Target Localization in Distributed Sensing Environment	MHRD &Deity, Govt. of India	27-08-2015	27-08-2020	Completed / 20 Lakhs

15. Number of PhDs guided/ongoing

Name of the PhD Scholar	Title of PhD Thesis	Role (Supervisor/ Co-Supervisor)	Year of Award
Dr. Arthur A. Shaw	Data Mining in Game theory	Supervisor	2013
Dr. V.Sangeetha	Distance Closed sets, Dominating sets and their related structures	Supervisor	2014
Dr. C. Sivaraj	Energy-Efficient Hierarchical Routing Protocols for Homogeneous Wireless Sensor Networks	Supervisor	2017
Mr. Y. Venkataramana Reddy	Customized Group Key Agreement Protocols for Different Communication Networks	Supervisor	2018
Mr. J. Naveen	Energy Aware Clustering Algorithms for Routing in 2D & 3D Wireless Sensor Networks	Supervisor	2019
Mrs. S. Kavitha	An Efficient Curve Based Crypto	Supervisor	2020

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	System with Decentralized Scalable Group Key Agreement for IoT Environment		
Mr. SeshuBabuPulagara	An Energy Efficient and Scalable Group key Agreement and Robust Authentication Schemes for Mobile Ad-hoc Networks	Supervisor	2020
Mr. P. Praveen Kumar	Efficient and Secure Cipher Text Policy Attribute-based Encryption Schemes for Big Data Access Control in Cloud Storage.	Supervisor	2021
Mr. K V Sriharsha	Target Localization and Recognition using Image Processing	Supervisor	2021
Mr. M.S. Jagadeesh.	Identification of Covid-19 Tweets using Artificial Intelligence Techniques	Supervisor	Submitted (21-03-2022)
Mr. Lella Kranthi Kumar	AI4COVID: An Artificial Intelligence Based Framework to Diagnosis of COVID-19 Disease Symptoms from Human Respiratory Sound Data using Deep Learning Approaches	Supervisor	Ongoing
Mr. A. Ananada Raj	Health Care Analytics	Supervisor	Ongoing
Mrs. Vinotha	Data Analytics	Supervisor	Ongoing
Mr. Divakar Keshri	Data Analytics	Supervisor	Ongoing
Mr. S. Sravan	IoT enabled Wireless Communication	Supervisor	Ongoing
Ms. Mamata Das	Data Analytics	Co-Supervisor	Ongoing
Mr. Pandian	Data Analytics	Supervisor	Ongoing
Mr. Manoranjan G.	NLP Embeddings and Reinforcement Learning	Supervisor	Ongoing

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
27/04/2018	FEAST-18	International	Chair Person	Department of Computer Applications	NIT, Trichy
31/03/2017	FEAST-17	International	Secretary	Department of Computer	NIT, Trichy

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				Applications	
02/03/2016	NACT-16	National	Chief Guest	Department of Computer Science & Engineering	K Ramakrishnan College of Technology, Trichy
18/03/2016	FACT-16	National	Secretary	Department of Computer Applications	NIT, Trichy
08/09/2016	ICRECT-16	National	Chairman	Department of Computer Applications	NIT, Trichy
2015	NCRTM-15	National	Resource Person	Department of Mathematics	VHNSN college, Virudha Nagar
06/03/2015	FACT-15	National	Chairman	Department of Computer Applications	NIT, Trichy
09/07/2013	Research & Technology Trends in Computer Science	UGC Short term Course	Resource Person	Department of Computer Science	UGC Academic Staff College, Bharatidasan University, Trichy
23/05/2013	FACT-13	National	Chairman	Department of Computer Applications	NIT, Trichy
06/12/2012	FACT-12	National	Secretary	Department of Computer Applications	NIT, Trichy

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
Frontier Applied Computer Technology (FACT)	National Conference	2012	Organizer Secretary	NIT Trichy
Frontier Applied Computer Technology (FACT)	National Conference	2013	Organizer Secretary	NIT Trichy
Computer Programming	Workshop	2014	Coordinator	NIT Trichy
Frontier Applied	National Conference	2014	Convener	NIT Trichy

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Computer Technology (FACT)					
Frontier Applied Computer Technology (FACT)	National Conference	2016	Organizer Secretary	NIT Trichy	
ICRECT	International Conference	2016	General Chair	NIT Trichy	
Frontiers in Engineering, Applied Sciences and Technology (FEAST)	International Conference	2017	Organizer Secretary	NIT Trichy	
Frontiers in Engineering, Applied Sciences and Technology (FEAST)	International Conference	2018	Convener	NIT Trichy	
Effective Online Teaching Learning Strategies(26-31MAY)	Six-day hands-on course	2020	Coordinator	NIT Trichy	
Effective Online Teaching Learning Strategies (22-27 JUNE)	Second Hands-on workshop	2020	Coordinator	NIT Trichy	
Effective Online Teaching Learning Strategies (03-08AUGUST)	Third self-paced Hands-on Online Workshop	2020	Coordinator	NIT Trichy	

18. Invited Talks delivered

Topic	Date	Inviting Organization
Webinar Series on Advanced Computing	11/11/2020	Bharathiar University, Coimbatore.
Light Weight Cryptography	29/02/2020	ICRTCT, Dr. NGP Arts and Science College, Coimbatore, <b>INDIA.</b>
Energy efficient Under Water Wireless Sensor Network	13/12/2019	University of Cambodia, <b>Cambodia.</b>
Energy efficient Hierarchical Cluster Based Routing in Wireless Sensor Networks	20/09/2017	International Science Congress, Asian Institute of Technology, Bangkok, <b>Thailand.</b>
Graphs and Their Applications in Different Fields	23/03/2016	Department of Mathematics, PSGR Krishnammal College of Women, Coimbatore, <b>INDIA.</b>
Graph & its Applications	11/02/2015	Virudhanagar Hindu Nadars, Senthikumara Nadar College, <b>INDIA.</b>
Information Security	12/03/2013	Saranathan College of Engineering, Trichy, <b>INDIA.</b>
Graph Theory	29/12/2011	WSEAS, <b>Montreux,</b>



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		<b>Switzerland.</b>
Engineering Practices on Fuzzy Logic Neural networks and Hybrid Intelligent System	2010	Institute of Engineers (BHEL Trichy).
Coding theory and Cryptography	2010	Fathima College, Madurai, <b>INDIA.</b>
Applications of Graph Theory	2011	Fathima College, Madurai, <b>INDIA.</b>

19. Membership of Learned Societies

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

20. Academic Foreign Visits

Country	Duration of Visit	Programme
University of Cambodia, Cambodia.	13/12/2019	Talk on Energy efficient Under Water Wireless Sensor Network
International Science Congress, Asian Institute of Technology, Bangkok, Thailand.	20/09/2017	Keynote Speech on Energy efficient Hierarchical Cluster Based Routing in Wireless Sensor Networks
<b>WSEAS, Montreux, Switzerland.</b>	29/12/2011	Invited Talk on Graph Theory

21. Publications

(A) Refereed Research Journals:

Author (s)	Title of Paper	Journal	Volume (No.)	Page no.	Year	doi
Lella Kranthi Kumar & P.J.A. Alphonse	COVID-19 disease diagnosis with light-weight CNN using modified MFCC and enhanced GFCC from human respiratory sounds	The European Physical Journal Special Topics (SCI – IF: 2.707	-	-	2022	<a href="https://doi.org/10.1140/epjs/s11734-022-00432-w">https://doi.org/10.1140/epjs/s11734-022-00432-w</a>
SreeJagadeesh Malla & P. J. A. Alphonse	Fake or real news about COVID-19? Pretrained transformer model to detect potential misleading news	The European Physical Journal Special Topics (SCI – IF: 2.707	-	-	2022	<a href="https://doi.org/10.1140/epjs/s11734-022-00436-6">https://doi.org/10.1140/epjs/s11734-022-00436-6</a>
Kranthi Kumar	Automatic Diagnosis of COVID-19 Disease using	Alexandria Engineering	Volume 61,	1319-1334	2022	<a href="https://doi.org/10.1016/j.aej.2021.06.024">doi.org/10.1016/j.aej.2021.06.024</a>

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Lella, Alphonse PJA	Deep Convolutional Neural Network with Multi-Feature Channel from Respiratory Sound Data: Cough, Voice, and Breath	Journal (SCIE - IF: 3.732)	Issue 2, February 2022 /			
SreeJagadeesh Malla, Alphonse PJA	COVID-19 outbreak: An ensemble pre-trained deep learning model for detecting informative tweets	Applied Soft Computing (SCIE IF:6.725)	107495, 107	(1 -15)	2021	10.1016/j.asoc.2021.107495
Kranthi Kumar Lella, Alphonse PJA	Automatic COVID-19 Disease Diagnosis using 1D Convolutional Neural Network and Augmentation with Human Respiratory sound based on parameters: Cough, Breath, and Voice	AIMS Public Health (Web of Science - ESCI)	8(2)	240 - 264	2021	10.3934/publichealth.2021019
Kranthi Kumar Lella, Alphonse PJA	A Literature Review on COVID-19 Disease Diagnosis from Respiratory Sound Data	AIMS Bioengineering (Web of Science - ESCI)	8(2)	140 - 153	2021	10.3934/bioeng.2021013
PJA Alphonse, KV Sriharsha	Depth perception in single rgb camera system using lens aperture and object size: a geometrical approach for depth estimation	SN Applied Sciences (ESCI)	3 (6)	1-16	2021	<a href="https://doi.org/10.18280/ts.370220">https://doi.org/10.18280/ts.370220</a>
Alphonse, P. J. A., & Sriharsha	Vision-based distance estimation from single RGB camera using the field of view and magnification measurements—an AI-based non-triangulation technique for person distance estimation in surveillance areas	Journal of Intelligent & Fuzzy Systems (SCI-E) Impact Factor:1.851		1-17	2021	10.3233/JIFS-189583
AnandRaj & Alphonse PJA	Tree based Ensemble for Enhanced Prediction (TEEP) of Epileptic Seizures	International journal of Intelligent Data Analysis	vol. 26, no. 1	133-151	2022	10.3233/IDA-205534
Praveen Kumar Premkama I, Syam Kumar Pasupuleti, Abhishek Kumar Singh & Alphonse PJA	Enhanced attribute-based access control with secure deduplication for big data storage in the cloud	Peer-to-Peer Networking and Applications, Springer (SCIE)		102-120	2021	<a href="https://doi.org/10.1007/s12083-020-00940-3">https://doi.org/10.1007/s12083-020-00940-3</a>
P.J.A. Alphonse and K.V. Sri Harsha	Depth Perception in a Single RGB Camera Using Body Dimensions and Centroid Property.	Traitement du Signal. (SCIE) Impact Factor:1.541	Vol. 37, No. 2.	333-340	2020	<a href="https://doi.org/10.18280/ts.370220">https://doi.org/10.18280/ts.370220</a>

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Praveen Kumar Premkama l, Syam Kumar pasupulati, and P.J.A Alphonse,	Efficient escrow-free CP-ABE with constant size cipher text and secret key for big data storage in cloud	International Journal of Cloud Applications and Computing (ESCI) Impact Factor:1.278	10(1)	28-45	2020	10.4018/IJCAC.2020010103
Praveen Kumar Premkama l, Syam Kumar pasupulati, and P.J.A Alphonse,	Dynamic traceable CP-ABE with revocation for outsourced big data in cloud storage	International Journal of Communication Systems (SCIE) Impact Factor:1.278	34(6)	e4351	2020	<a href="https://doi.org/10.1002/dac.4351">https://doi.org/10.1002/dac.4351</a>
S Kavitha, P.J.A.Alphonse and Y.Venkatramana Reddy	Efficient Group key Agreement Scheme for Hierarchical structure based IoT health care System	Journal of Web Engineering (SCIE) Impact Factor 0.854	Vol. 18	5001-5013	2019	
S Kavitha, P.J.A.Alphonse and Y.Venkatramana Reddy	An Improved Authentication and Security on Efficient Generalized Group Key Agreement Using Hyper Elliptic Curve Based Public Key Cryptography for IoT Health Care System	Journal of medical Systems. (SCIE) Impact Factor:2.04		1-15	2019	<a href="https://doi.org/10.1007/s10916-019-1378-2">https://doi.org/10.1007/s10916-019-1378-2</a>
P.J.A.Alphonse and Seshubabu Pulagara	A Method for Obtaining Efficient and Scalable Group key Agreement for Wireless Sensor Networks Deployed for IoT Applications	Journal of Web Engineering (SCIE) Impact Factor 0.854	Vol. 18	5089 – 5095	2019	
Praveen Kumar Premkama l, Syam Kumar pasupulati, and P.J.A Alphonse,	Efficient revocable CP-ABE for big data access control in cloud computing	International Journal of Security and Networks(Scopus Indexed, IF:0.05)	14(3)	119-132	2019	
P.J.A.Alphonse and Seshubabu Pulagara	An intelligent and robust conditional privacy preserving authentication and group-key management scheme for vehicular ad hoc networks using elliptic curve cryptosystem	Concurrency and computation practice and experience (SCIE) Impact Factor:1.114		1-11	2019	<a href="https://doi.org/10.1002/cpe.5153">https://doi.org/10.1002/cpe.5153</a>
Naveen J., Alphonse P.J.A. &Chinnas	Modified Energy Efficient Load Distributed Clustering Algorithm for Dense Wireless Sensor Networks	Journal of Advanced Research in Dynamical and	12(5)	1-13	2019	

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amy		Control Systems (SJR 0.11)				
S Kavitha, P.J.A.Alphonse	A hybrid cryptosystem to enhance security in IOT health care system	International Journal of Wireless and Microwave Technologies (IJWMT) SJR 0.213	9(1)	1-10	2019	
Naveen J., Alphonse P.J.A. &Chinnasamy	Track-sector-tree clustering scheme for dense wireless sensor networks	Cluster Computing (SCIE) Impact factor:1.601		1-8	2018	<a href="https://doi.org/10.1007/s10586-017-1641-6">https://doi.org/10.1007/s10586-017-1641-6</a>
P.J.A.Alphonse and YV Reddy	A method for obtaining authenticated scalable and efficient group key agreement for wireless ad-hoc networks	Cluster Computing (SCIE) Impact factor:1.601		1-7	2018	<a href="https://doi.org/10.1007/s10586-018-2008-3">https://doi.org/10.1007/s10586-018-2008-3</a>
Naveen J., Alphonse P.J.A. &Chinnasamy	3D grid clustering scheme for wireless sensor networks	Journal of Supercomputing (SCI) Impact factor:1.532		1-13	2018	<a href="https://doi.org/10.1007/s11227-018-2306-9">https://doi.org/10.1007/s11227-018-2306-9</a>
P.J.A.Alphonse and Y.Venkatramana Reddy	Scalable and Group Key Agreement For Wireless Ad-Hoc Networks by extending RSA scheme	Concurrency and computation practice and experience (SCIE) Impact Factor:1.114	31	1-10	2018	
Kumar, P.P., Kumar, P.S. and Alphonse, P.J.A	Attribute-based encryption in cloud computing: A survey, gap analysis, and future directions	Journal of Network and Computer Applications (SCIE) Impact Factor:3.991	108	37-52	2018	
Kumar, P.P., Kumar, P.S., and Alphonse,	A new verifiable outsourced cipher text-policy attribute-based encryption for big data privacy and access control in cloud	Journal of Ambient Intelligence and Humanized Computing. (SCIE) Impact Factor:1.423	10	2693–2707	2018	
P J A Alphonse and Y.Venkatramana Reddy	Customized group key agreement for Wireless Multi-Way Relay Networks	journal of advanced research in dynamical and control systems (Scopus) SJR 0.11	15	820-828,1141-1149.	2018	
Alphonse, P. J. A., & Sivaraj, Janakiraman T N	An Energy-Efficient Layered Clustering Algorithm for Routing in Wireless Sensor Networks	International Journal of Distributed Systems and Technologies	8(3)	43-66	2017	

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		(ESCI) SJR 0.27				
Sivaraj C, Alphonse P J A, and Janakiram an T N.	Independent Neighbour Set based Clustering Algorithm for Routing in Wireless Sensor Networks	International Journal of Wireless Personal Communications (Springer) (SCIE) Impact factor: 1.200	96	6197–6219	2017	<a href="https://doi.org/10.1007/s11277-017-4473-z">https://doi.org/10.1007/s11277-017-4473-z</a>
Sivaraj C, Alphonse P J A, and Janakiram an T N	Energy-efficient and Load Distributed Clustering Algorithm for Dense Wireless Sensor Networks	International Journal of Intelligent Systems and Applications (IJISA). (Scopus) Impact factor: 0.743	Vol.9	34-42	2017	
Sivaraj C, Alphonse P J A, and Janakiram an T N.	Self-Load Balanced Clustering Algorithms for Routing in Wireless Sensor Networks	International Journal of Intelligent Systems and Applications (IJISA). (Scopus) Impact factor: 0.743	vol.9	46-57	2017	
P.J.A.Alphonse, S.Kavitha and G.Saravanapriya	A Comparative Study of ECC Methods	International Journal of Advanced Computational Engineering and Networking Impact factor: 2.843	Vol.3	67-69	2015	
P.J.A.Alphonse, S.Kavitha and M.Barani	A Comparative Study of Elliptic Curve Cryptography Methods	International Journal of Engineering Science, Advanced Computing and Bio-Technology. SJIF: 3.376	Vol.3	1-4.	2015	
T.N. Janakiram an and P.J.A.Alphonse	Critical Concept in Strong Convex Dominating Set of Graphs	International Journal of Engineering Science, Advanced Computing and Bio-Technology, SJIF: 3.376	Vol.3	152 - 162	2012	
T.N. Janakiram an, P.J.A.Alphonse and V.Sangeetha	Structural Properties of k-Distance Closed Domination Critical Graphs for k = 5 and 6	International Journal of Engineering Science, Advanced Computing and Bio-Technology,	Vol.3	1 - 14.	2012	

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		SJIF: 3.376				
T.N. Janakiram an, P.J.A.Alphonse and V.Sangeetha	Changing and Unchanging of Distance Closed Domination Number in Graphs	International Journal of Engineering Science, Advanced Computing and Bio-Technology, SJIF: 3.376	Vol.3	67 - 84	2012	
R. Ponalagusamy, P. J. A. Alphonse and M. Chandru	Development of new Fifth-Order Fifth-Stage Runge-Kutta Method based on Heronian Mean	International Journal of Engineering Science, Advanced Computing and Bio-Technology, SJIF: 3.376	Vol.2	150 - 161	2011	
T.N. Janakiram an, P.J.A.Alphonse and V.Sangeetha	Structural Properties of k-Distance Closed Domination Critical Graphs for k = 3 and 4	International Journal of Engineering Science, Advanced Computing and Bio-Technology, SJIF: 3.376	Vol.2	150 - 161	2011	
T.N. Janakiram an, P.J.A.Alphonse, and V.Sangeetha.	Distance Closed Restrained Domination in Graph	International Journal of Engineering Science, Advanced Computing and Bio-Technology, SJIF: 3.376	Vol.2	57 - 65	2011	
T.N. Janakiram an, P.J.A.Alphonse and V.Sangeetha	Acyclic Distance Closed Domination In Graph	International Journal of Engineering Science, Advanced Computing and Bio-Technology, SJIF: 3.376	Vol.2	47 - 56.	2011	
T.N. Janakiram an and P.J.A.Alphonse	Weak Convex Restrained Domination in Graphs	International Journal of Engineering Science, Advanced Computing and Bio-Technology, SJIF: 3.376	Vol.2	1 - 10.	2011	
Arthur.Shaw, K.Shanmugavadeivel, P.J.A.Alphonse. N P Gopalan	Finding Frequent Trajectories of moving Objects by variable Block Box Method	Journal of Transportation Science (Scopus, IF: 3.310)	Vol 12	56-65	2011	

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T.N. Janakiram an and P.J.A.Alphonse	Even Distance Closed Domination in Graph Acyclic	International Journal of Engineering Science, Advanced Computing and Bio-Technology, SJIF: 3.376	Vol.1	183-190	2010	
TN Janakiram an, P.J.A.Alphonse, and V Sangeetha	Distance closed domination in graph	International Journal of Engineering Science, Advanced Computing and Bio-Technology, SJIF: 3.376	Vol.1	109 - 117	2010	
T.N. Janakiram an and P.J.A.Alphonse	Even Weak Convex Restrained Domination in Graphs	International Journal of Mathematics and Engineering and Computers SJIF: 6.538	Vol.1	59-64.	2010	
T.N. Janakiram an and P.J.A. Alphonse	Odd and even Weak Convex Domination in Graphs	International Journal of Mathematics and Engineering and Computers SJIF: 6.538	Vol.1	53-58.	2010	
T.N. Janakiram an and P.J.A. Alphonse	Acyclic Weak Convex Domination in Graphs	International Journal of Engineering Science, Advanced Computing and Bio-Technology, SJIF: 3.376	Vol.1	43-54.	2010	
T.N. Janakiram an and P.J.A. Alphonse	Weak Convex Domination in Graphs	International Journal of Engineering Science, Advanced Computing and Bio-Technology, SJIF: 3.376	Vol.1	1-13	2010	
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and V.Sangeetha,		Advanced Computing and Bio-Technology, SJIF: 3.376				
T.N. Janakiraman, P.J.A.Alphonse and V.Sangeetha,	Distance closed domination in graph	International Journal of Engineering Science, Advanced Computing and Bio-Technology, SJIF: 3.376	Vol.1	183-190	2010	
R Ponalagusamy, PJA Alphonse, M Chandru	Numerical Methods on Ordinary Differential Equations	Numerical Methods on Ordinary Differential Equations, ICETMCA Publisher	Vol.1	1-12	2010	

**(B) Conferences/Workshops/Symposia Proceedings**

Author(s)	Title of Abstract/ Paper	Title of the Proceedings	Page numbers	Conference Theme	Venue	Year	doi
Mamata Das, P.J.A. Alphonse, and Selvakumar K.	Markov Clustering Algorithms and their Applications in Analysis of PPI Network of Malaria Genes	11th IEEE International Conference		Intelligent Data Acquisition and Advanced Computing Systems: Technology and Applications		2021	
Mamata Das, P.J.A. Alphonse, and Selvakumar K.	A comparative study on tf-idf feature weighting method and its analysis using unstructured dataset	CEUR Workshop Proceedings / COLINS-2021		5th International Conference on Computational Linguistics and Intelligent Systems		2021	
Mamata Das, P.J.A. Alphonse, and Selvakumar K.	Analysis of Covid-19 Dataset using Graph-Based Clustering	5th international conference		Smart Computing And Informatics		2021	
Jagadeesh M S & Alphonse P J A	NIT_COVID-19 at WNUT-2020 Task 2: Deep Learning Model RoBERTa for Identify Informative COVID-19 English Tweets	Proceedings of the Sixth Workshop on Noisy User-generated Text (W-NUT 2020)		Noisy User-generated Text		2020	
Praveen Kumar Premkamal, Syam	Enhanced attribute-based access control with secure deduplication for big data storage in the cloud.	Peer-to-Peer Networking and Applications, Springer US		Peer-to-Peer Networking and Applications, Springer US		2020	



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Kumar Pasupuleti, Abhishek Kumar Singh & Alphonse P J A							
Sriharsha, K. V., & Alphonse, P. J. A.	Anthropometric based Real Height Estimation using Multi-layer perceptron ANN architecture in surveillance areas	International Conference on Computing, Communication and Networking Technologies (ICCCNT)		International Conference on Computing, Communication and Networking Technologies (ICCCNT)		2019	
Jagdeesh M S & Alphonse, P. J. A	Improved PageRank Algorithm Mainly based on Domain Age and Unique Visitors	International Conference on Operations Research and Decision Sciences (ICORDS-2019)				2019	
Sriharsha, K. V., & Alphonse, P. J. A.	A Single Tier Homogeneous Visual Sensor Network for Real-Time face Recognition (Poster Presentation)	IRISS,13th Inter Research Institute Student Seminar in Computer Science,		IRISS,13th Inter Research Institute Student Seminar in Computer Science,		2019	
Jagdeesh M S & Alphonse, P. J. A	A Novel approach to detect offline social Communities based on Unique Identification Number (Poster Presentation)	IRISS,13th Inter Research Institute Student Seminar in Computer Science,		IRISS,13th Inter Research Institute Student Seminar in Computer Science,		2019	
PK Premkamal, SK Pasupuleti, & Alphonse P J A	Traceable CP-ABE for outsourced big data in cloud storage	International Conference on Computing and Information Technology	213-226			2019	
Seshu Babu Pulagara, P J A Alphonse	Cluster Based Self-Certified Public Key Scheme for Medical Data Protection Using Elliptic Curve Cryptosystem	NITT, FEAST-17		NITT, FEAST-17		2017	
Kumar, P.P., Kumar, P.S. and Alphonse P.J.A	An Efficient Ciphertext Policy Attribute Based Encryption for Big Data Access Control in Cloud Computing	9th International Conference on Advanced Computing		9th International Conference on Advanced Computing		2017	
Seshu Babu Pulagara, P J A Alphonse	An efficient Conditional Privacy-Preserving in Vehicular Ad-hoc Networks using Elliptic Curve Cryptography	NITT, FEAST-18		NITT, FEAST-18		2018	
P J A	Integrating Generalized	NITT, FEAST-		NITT, FEAST-17		2017	

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Alphonse, Y Venkatramana Reddy	Diffie–Hellman Key Exchange into the Digital Signature Algorithm (IGDHD)	17					
P J A Alphonse, Y Venkatramana Reddy	Efficient and scalable group key for Wireless Sensor Networks Deployed for IoT Applications	NITT, FEAST-16		NITT, FEAST-16		2016	
P.J.A.Alphonse, C.Sivaraj, And T.N.Janakiraman	A Grid-Based Clustering Algorithm for Large Scale Wireless Sensor Networks Techniques	Proceedings of International Conference on Research in Engineering, Computers, and Technology		Research in Engineering, Computers, and Technology		2016	
P.J.A.Alphonse, C.Sivaraj, And T.N.Janakiraman	A Grid-Based Clustering Algorithm for Large Scale Wireless Sensor Networks	Proceedings of International Conference on Research in Engineering, Computers, and Technology		Research in Engineering, Computers, and Technology		2016	
Sivaraj C, P. J. A. Alphonse, and T. N. Janakiraman	An Energy Efficient Fault Tolerance Nested Clustering Algorithm for Routing in Wireless Sensor Networks	10th International Conference on Intelligent System and Control		Intelligent System and Control		2018	
S.Kavitha and P.J.A.Alphonse	Avoiding Inverse Problem Using Imaginary Field in Burnside Curve	Proceedings of International Conference on Research in Engineering, Computers and Technology		Research in Engineering, Computers and Technology		2016	
P.J.A.Alphonse and T.N. Janakiraman	Weak Convex Restrained Domination Critical Graphs	Proceedings of the 9th International Conference on Foundations of Computer Science		Foundations of Computer Science		2013	
R.Ponalagamy, P.J.A. Alphonse, M. Chandru	New Algorithm of Fifth-Order Heronian Mean RungeKutta Method	International Conference on Recent Researches in Applied Mathematics and Informatics		Recent Researches in Applied Mathematics and Informatics		2011	
T.N. Janakiraman, and P.J.A.Alphonse,	Strong Convex Dominating Sets in Graphs	International Conference on Recent Researches in Applied Mathematics		Recent Researches in Applied Mathematics and Informatics		2011	

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**(C) Books & Monographs**

Author(s)	Title of Book/Monograph	Name of Publishers	Year of Publication	ISSN/ISBN Number	doi
Kranthi Kumar Lella, Alphonse PJA	COVID-19: Respiratory Disease Diagnosis with Human Respiratory Sound Data using Deep Learning Techniques: A Preliminary Study on Frameworks, Approaches, and Methods	Eliva Press	2022	1636485626 and 978-1636485621	<a href="https://www.elivapress.com/en/book/book-3777048618/">https://www.elivapress.com/en/book/book-3777048618/</a>
K Selvakumar, PJA Alphonse, L SaiRamesh	Cloud IoT Systems for Smart Agricultural Engineering	Chapman and Hall/CRC	2022		<a href="https://books.google.co.in/books?hl=en&amp;lr=&amp;id=EnJdEAAQBAJ&amp;oi=fnd&amp;pg=PA133&amp;dq=info:sqr3ATw2Xd8J:scholar.google.com&amp;ots=cNmgaG9eBC&amp;sig=VnwvMbLWRZ7jmX4iqoRyET19dk&amp;redir_esc=y#v=onepage&amp;q&amp;f=false">https://books.google.co.in/books?hl=en&amp;lr=&amp;id=EnJdEAAQBAJ&amp;oi=fnd&amp;pg=PA133&amp;dq=info:sqr3ATw2Xd8J:scholar.google.com&amp;ots=cNmgaG9eBC&amp;sig=VnwvMbLWRZ7jmX4iqoRyET19dk&amp;redir_esc=y#v=onepage&amp;q&amp;f=false</a>
P.J.A.Alphonse	Hand Book on Big Data Analytics	IET, UK	2020		
P.J.A.Alphonse	Discrete Mathematics	Shanmugapriya Publishers, India	2000		