

National Institute of Technology, Tiruchirappalli

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Curriculum Vitae

Brief Profile:

Dr. (Mrs.) S. Sangeetha has obtained her Undergraduate degree in B.Sc. (Computer Science) from Avinashilingam University, Coimbatore in 1997, Postgraduate degree in M.C.A from the Bharathidasan University, Tiruchirappalli in 2000 and Ph.D. from National Institute of Technology, Tiruchirappalli in 2013.



She is working as Assistant Professor in the Department of Computer Applications, National Institute of Technology, Tiruchirappalli, Tamil Nadu, India from 2007 onwards with a great passion towards teaching and continuous learning. Feedback from students makes enthusiastic progress in her teaching career.

She started her research career in 2008 and her field of research includes Information Extraction. She has published papers in international conferences and International Journals. She is a member of Computer Society of India and Association for Computational Linguistics.

1. **Name** : Dr. (Mrs.) S. Sangeetha
2. **Designation** : Assistant Professor – Grade I
3. **Office Address** : Department of Computer Applications,
National Institute of Technology, Tiruchirappalli
4. **Telephone** : 0431-2503743
Mobile : 9442601978
5. **Email (Primary)** : sangeetha@nitt.edu
6. **Field(s) of Specialization** : Natural Language Processing, Information Extraction

7. Employment Profile

Job Title	Employer	From	To
Lecturer	J.J. College of Engineering and Technology	Aug 2001	May 2007
Assistant Professor 6000 AGP	National Institute of Technology, Tiruchirappalli	1 Jun 2007	31 May 2012
Assistant Professor 7000 AGP	National Institute of Technology, Tiruchirappalli	1 Jun 2012	11 March 2018
Assistant Professor Grade I	National Institute of Technology, Tiruchirappalli	12 Mar 2018	Till date

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

Examination	Board / University	Year	Division/ Grade	Subjects
Ph.D.	National Institute of Technology, Tiruchirappalli	2013	-	Event Detection and Extraction
M.C. A	Bharathidasan University Tiruchirappalli	2000	First Class	Computer Applications
B.Sc.	Avinashilingam University, Coimbatore	1997	First Class	Computer Science
HSC	St. Mary's GHSS, Kotagiri, Nilgiris	1994	First Class	Maths, Physics, Chemistry, Biology
SSLC	St. Mary's GHSS, Kotagiri, Nilgiris	1992	First Class	Maths, Science, Language

9. Academic/Administrative Responsibilities within the University

Position	Faculty/Department/Centre/ Institution	From	To
Staff Advisor, VERSION, MCA Student's Technical Symposium	Department	2015	Till date
Member MCA Board of studies	Department	2022	
MIS core Team Member	Institute	Jul 2017	Feb 2019
NEP Implementation Subcommittee	Institute	2021	Till date
MOOC Subcommittee	Institute	2021	Till date
Library Advisory Committee	Institute	2020	Till date
Faculty Advisor -Web Cell	Institute	2021	Till date
Faculty Incharge – AINLP Club	Department	2018	Till date
Faculty Incharge – FIST Proposal Preparation Committee	Department	2015	
M.Sc. (CS) Curriculum Development Committee	Department	2013 - 2014	
Faculty Incharge – NBA SAR Preparation Committee	Department	2013 – 2014	
NBA SAR Preparation Committee	Department	2017	
Chairperson – Performance Analysis Committee	Department	2010, 2012, 2015, 2016,2017.2018.2019. 2020,2021,2022	
Purchase Initiator of the committee to purchase PG Research Lab equipment under Plan Fund, FIST	Department	2014 – 2016,2019-20	
Department Library In-charge	Department	2007	2009
Member - Committee for NBA Visit	Department	2008,2017	

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Member – Academic Reforms Committee	Institute	2015	
Stock Verification Officer	Institute	2009,2011,2012, 2014, 2016,2020	
Member – Timetable Committee	Department	2009	2013
Member – Admission Committee (MCA, MSC)	Department	2008	2019
Member – Convocation Registration	Institute	2008 to 2019 except 2014	
Member – Community Radio 90.8	Institute	2016	

10. Academic/Administrative Responsibilities outside the University

Position	Institution	From	To
Doctoral Committee Member	Periyar Maniammai university		2015
	SRM University, Chennai		2017
	Sastra University, Tanjavur		2019
	Central University Thiruvavur		2020
Question Paper Setting	Bharthidasan University Coimbatore Institute of Technology (CIT)		2015-16
Course Faculty	IIT Srirangam		2014

11. Awards, Associateships etc.

Year of Award	Name of the Award	Awarding Organization
2021	Best Performer Award	National Institute of Technology, Tiruchirappalli
2021	Best Paper Award	National Institute of Technology Mizoram
2017	Best Paper Award	Sasrtra University, Tanjore
2010	Best Paper Award	Amrita University, Coimbatore

12. Details of Academic Work

(i) Curriculum Development

M.Tech Data Analytics – Natural Language Computing

M.Sc. Computer Science – Problem Solving using Python and R, Artificial Intelligence in 2018

M.Tech Data Analytics – Social Network Analysis

MOOC – Deep Learning for NLP

(ii) Courses taught at Postgraduate and Undergraduate levels

- Python and R Programming
- Object Oriented Programming
- Operating Systems
- Computer Networks
- Problem Solving using C
- Natural Language Computing
- Introduction to Programming

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(iii) Projects guided at Postgraduate level

- Ontology Based Abstractive Text Summarization of Judicial Document
- Answer Extraction Based on TweetQA
- Generic Handwritten Character Recognition
- Indian Language Machine Translation Using Neural Networks
- Machine Translation: From English Written Text to Indian Sign Language Gloss and Gesture
- Relation Extraction on Text

(i) Other contribution(s)

- **Reviewed papers for**
 - Swarm and Evolutionary Computation
 - Journal of Big Data
 - IEEE Transactions on Neural Networks and Learning Systems
 - FIRE 2021
- Organized an Industrial lecture titled “*IOT Insights- Smart city and connected vehicle*” by Mr. Prasan Dutt, Vajra Infotech for Students
- Member of organizing committee for the workshop on “*Research issues and Challenges in Social Network computing*” in 2012
- Jury, *Smart India Hackathon 2019* Software Edition conducted by MHRD
- Judge for TransfiNITTe 2022
- Organized an Industrial lecture titled “*Industry Adoption of Cognitive Intelligence*”, Mr. Utpal Chakraborty, I & Cognitive Business Unit, Larsen & Toubro InfoTech Ltd. Mumbai for Students
- Organized an Industrial lecture titled “*Quantum Computing*” by Mr. Gokul Alex, Associate Director, Price Water Cooper, Bangalore for Students
- Organized an Industrial lecture titled “*Edge Computing- Industrial Scenario*”, by Mr. Danni David, KLA Tencor, Chennai for Students
- Organized an Industrial lecture titled “*Decentralized Apps (DApps)*” by Mr. Pritam Nikam, Samsung R&D for Students

13. Details of Sponsored Projects/Consultancy

Title of Project	Funding Agency	Duration		Status
		From	To	Ongoing/ Completed
Course Development under National Mission Project on “ Developing suitable Pedagogical methods for various classes, intellectual calibers and e-learning ”.	MHRD	2013	2016	Completed

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Software Development

- Live in-House Project “**Recruitment portal for Special Recruitment Drive for Physically Challenged -2015**” for NITT Staff Recruitment
- Live in-House Project “**Recruitment portal for CSG Trainee Recruitment -2016-17**” for NITT CSG Trainee Recruitment

14. Number of PhDs guided

Name of the PhD Scholar	Title of PhD Thesis	Role (Supervisor/ Co-Supervisor)	Year of Award
M. Sumathi	Identification, Protection of Sensitive Attributes in Structured and Unstructured Data with Cost Efficient Storage on Cloud and Blockchain Based Access Monitoring	Supervisor	2021
Anu Thomas	Intelligent and Adaptive Information Extraction from Indian E-Judgments Towards Constructing Knowledge Graph in Judicial Domain	Supervisor	2021

15. Participation in Workshops/ Symposia/ Conferences/ Colloquia /Seminars/ Schools etc. (mentioning the role)

Date (s)	Title of Activity	Level of Event (International/ National/ Local)	Role	Event Organized by	Location/ Venue
Oct 2012	Event Detection within Text documents using MaxEnt Classification @ 3 rd International conference on Advanced Topics in Artificial Intelligence ATAI 2012	International	Paper presenter	GSTF Singapore	Singapore
Aug 2010	Event Detection using Lexical chain @ 7th International conference on Natural Language Processing	International	Paper accepted	Iceland Centre for Language Technology (ICLT)	Iceland

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Sep 2010	Event Mention Detection using Rough set and Semantic Similarity@ ACM-W Celebration on Women in Computing		Paper Presenter	ACM	Amrita Institute of Technology Coimbatore
Feb 2017	Role of NLP in Text Analytics @ International Conference on Innovations in Engineering, Technology and Science (ICIETS – 2017)	National	Keynote speaker	KRCE, Trichy	KRCE, Trichy
Oct 2007	Workshop on Software Quality	Local	Participant	Accenture & NITT	NIT Trichy
Nov 2007	Workshop on Soft Computing	Local	Participant	NIT Trichy	NIT Trichy
Mar 2008	Workshop on Data Analytics and Data Mining	National	Participant	NIT Trichy	NIT Trichy
May 2008	Workshop on Internet Technologies and Tools	National	Participant	NIT Trichy	NIT Trichy
July 2008	Instructional Design and Delivery System	Local	Participant	NITTR, Chennai	NITTR, Chennai
Oct 2008	Workshop on Thesis preparation using LaTeX Software	Local	Participant	NIT Trichy	NIT Trichy
Dec 2008	Workshop on Web services Architectures and Applications	Local	Participant	NIT Trichy	NIT Trichy
Jun 2010	AICTE-MHRD sponsored SDP on Recent Researches in Fuzzy logic and Neural Networks	National	Participant	NIT Trichy	NIT Trichy
April 2015	Conclave on Academic Reforms	Local	Participant	NIT Trichy	NIT Trichy
April 2015	Introduction to Design of Algorithms	National	Participant	IIT – Kharagpur & NITT	NIT Trichy
Jun 2019	Deep Learning	National	Participant	IIM Bangalore	IIM Bangalore
Dec 2019	Capacity Building of Women Faculty in	National	Participant	NIT Trichy	NIT Trichy

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	Higher Education				
Dec 2020	Predictive Analytics	National	Participant	IIT Bombay	Online
Sep 2016	International Conference on Research in Engineering, Computers and Technology	International Conference	Session chair	NIT-Trichy	Trichy
March 2015	International Conference on Big Data and Cloud computing	International Conference	Session chair	NIT-Trichy	Trichy

16. 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
MHRD-AICTE Sponsored Staff Development Programme on DATA WAREHOUSING and DATA MINING	National	25 May - 6 June 2009	Coordinator	NIT Trichy
Tools and Techniques for Information Processing Research	Local	11 -12 September 2015	Coordinator	NIT Trichy
DST Sponsored Workshop on DATA SCIENCE RESEARCH	National	3-5 Nov 2016	Coordinator	NIT Trichy
Workshop on Tools and Technologies for Language Processing	Local	14 -15 Dec 2018	Coordinator	NIT Trichy
Machine Learning Crash Course	National	Sep to Oct 2018	Coordinator	NIT Trichy
Short Term Course on Speech and Language Processing	National	27 - 31 May 2019	Coordinator	NIT Trichy
Six Day Hands on Workshop on Effective Online Teaching Learning Strategies	Local	May & June 2020	Coordinator	NIT Trichy ONLINE
Capacity Building of Women Faculty in Higher Education	Local	23 -25 March 2021	Coordinator	NIT Trichy`
Shared Task on Toxic Span Identification	International	May 26-28, 2022	Organizer	online

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17. Invited Talks delivered

Topic	Date	Organization
Natural Language Processing	03.02.2017	CSI Chapter SASTRA University
Role of NLP in Text Analytics	25.02.2017	KRCE, Trichy
Applications of Natural Language Processing	11-08-2018	Cauvery college for Women
Workshop on Python - Classes and Objects	04.05.2019	Tamilnadu State board School Teachers Association
E-Content Development Tools	25 Feb 2021	NLC India Ltd.
Biomedical Question Answering	10 March 2022	SSN college of Engineering

18. Membership of Learned Societies

Type of Membership (Ordinary Member/ Honorary Member / Life Member)	Organization	Membership No. with date
Life Member	ISTE	LM 37449
Life Member	CSI	01126915
Member	IEEE	2017 onwards
Member	Association of Computational Linguistics	2020 onwards

19. Academic Foreign Visits

Country	Duration of Visit	Programme
Singapore	20-24, Oct 2012	Presented a Paper in 3 rd International conference on Advanced Topics in Artificial Intelligence

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20. Publications

(A) Refereed Research Journals:

Author(s)	Title of Paper	Journal	Volume (No.)	Page numbers/	Year	DOI	Impact Factor
Anu Thomas, Sangeetha Sivanesan	An Adaptable, High-Performance Relation Extraction System for Complex Sentences	Knowledge-Based Systems, Elsevier	251	No.108 956	2021	https://doi.org/10.1016/j.knosys.2022.108956	8.038
K.A. Apoorva, S. Sangeetha	Analysis of uniform resource locator using boosting algorithms for forensic purpose	Computer Communications, Elsevier	190	69-77	2021	https://doi.org/10.1016/j.comcom.2022.04.002	5.05
Sareena Rose, S. Nickolas, S. Sangeetha	Effective prediction of soil micronutrients using Additive Gaussian process with RAM augmentation	Computational Biology and Chemistry	98	No. 107683	2022	https://doi.org/10.1016/j.compbiolchem.2022.107683	3.74
KS Kalyan, Sivanesan Sangeetha	BertMCN: Mapping colloquial phrases to standard medical concepts	Artificial Intelligence in Medicine Elsevier	112	No. 102008	2021	https://doi.org/10.1016/j.artmed.2021.102008	4.83

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	using BERT and highway network						
Thomas, A, Sangeetha, S	Semi-supervised, knowledge-integrated pattern learning approach for fact extraction from judicial text	Expert Systems Wiley	38(3)	e12656	2021	https://doi.org/10.1111/exsy.12656	1.546
S Rose, S Nickolas, S Sangeetha	A recursive ensemble-based feature selection for multi-output models to discover patterns among the soil nutrients	Chemometrics and Intelligent Laboratory Systems Elsevier	208	104221	2021	https://doi.org/10.1016/j.chemolab.2020.104221	4.175
Apoorva, K.A., Sangeetha, S	Deep neural network and model-based clustering technique for forensic electronic mail author attribution	SN Applied Science Springer	3	No. 348	2021	https://doi.org/10.1007/s42452-020-04127-6	
M.Sumathi and S. Sangeetha	Blockchain Based Sensitive Attribute Storage and Access Monitoring in Banking System	International Journal of Cloud Applications and Computing, IGI Global	10(2)	16	2020	DOI: 10.4018/IJCAC.2020040105	
Sumathi,	A group-	Complex	7	1733–	2021	https://doi.org/10.1016/j.chemolab.2020.104221	.927

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M., Sangeetha, S.	key-based sensitive attribute protection in cloud storage using modified random Fibonacci cryptography	and Intelligent Systems Springer		1747		0.1007/s40747-020-00162-3,	
Sumathi M., Sangeetha S., Anu Thomas,	Generic cost optimized and secured sensitive attribute storage model for template-based text document on cloud	Computer Communications Elsevier	150	569-580	2020	https://doi.org/10.1016/j.comcom.2019.11.029.	2.766.
Thomas, A, Sangeetha, S	An innovative hybrid approach for extracting named entities from unstructured text data	Computational Intelligence Wiley	35	799–826	2019	https://doi.org/10.1111/coin.12214	IF: 0.7
Sumathi and S. Sangeetha	Scale-based Secured Sensitive Data Storage for Banking Services in Cloud	International Journal of Electronic Business Inderscience	14(2)	171 - 188	2018	DOI:10.1504/IJEB.2018.094863	
Sangeetha, S. and Arock, M.	Event extraction from corefering	Int. J. Advanced Intelligence	6(2)	95–112	2014	DOI:10.1504/IJAI.2014.062172	0.62

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	mentions to enrich Semantic web metadata	Paradigms Inderscience					
Sangeetha, S. and Arock, M.	Recognising Sentence Similarity Using Similitude and Dissimilarity Features	Int. J. Advanced Intelligence Paradigms Inderscience	4(2)	120–131	2012	DOI: 10.1504/IJAIIP.2012.048141	0.62

(B) Conferences/Workshops/Symposia Proceedings

Author(s)	Title of the Paper	Title of the Proceedings	Page No.	Conference Theme	Venue/ Location	Year	DOI
KA Apoorva, S Sangeetha	Forensic Analysis of E-mail for Authorship Attribution: Research Perspective	Proceeding of First Doctoral Symposium on Natural Computing Research: DSNCR Springer	281–292	Natural Computing Research	online	2021	https://doi.org/10.1007/978-981-33-4073-2_27
A Thomas, S Sangeetha	Knowledge Graph based Question-Answering System for Effective Case Law Analysis	9th International Conference on Frontiers of Intelligent Computing: Theory and Applications (FICTA 2021), Springer	291–300	Intelligent Computing:	online	2021	DOI: 10.1007/978-981-16-6616-2_27
M Singh, BM Mehtre, S Sangeetha	Insider Threat Detection Based on User Behaviour Analysis	International Conference on Machine Learning, Image Processing, Network	559–574	Network Security	online	2020	DOI: 10.1007/978-981-15-6318-8_45

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		Security and Data Sciences					
A Thomas, S Sangeetha	Towards a Semantic Approach for Candidate Answer Generation in Solving Crossword Puzzles	Third International Conference on Computing and Network Communications (CoCoNet'19), Procedia Computer Science, Elsevier	171, 2310-2315,	Computing and Network Communications	IITM, Kerala	2020	https://doi.org/10.1016/j.procs.2020.04.250
Gopinath Palaniappan, Sangeetha S, Balaji Rajendran, Sanjay, Shubham Goyal, Bindu Madhav B S	Malicious Domain Detection Using Machine Learning on Domain Name Features, Host-Based Features and Web-Based Features	Third International Conference on Computing and Network Communications (CoCoNet'19), Procedia Computer Science, Elsevier	Vol 171 654-661	Computing and Network Communications	IITM, Kerala	2020	https://doi.org/10.1016/j.procs.2020.04.071
Singh, Malvika, Mehtre B. M., Sangeetha, S,	User Behavior Profiling using Ensemble Approach for Insider Threat Detection	5th IEEE International Conference on Identity, Security and Behavior Analysis	1-8	Security and Behavior Analysis	IDRBT Hyderabad	2019	DOI: 10.1109/ISBA.2019.8778466.
K Saija, S Sangeetha, V Shah	WordNet Based Sign Language Machine Translation: from English Voice to ISL Gloss	IEEE 16th India Council International Conference (INDICON),	1-4	IEEE council Conference	Gujarat	2019	DOI: 10.1109/INDICON.47234.2019.9029074
T. Anu, Sangeetha S.	Intelligent Sense-Enabled Lexical Search	Proceedings of SAI Intelligent	405-415	Intelligent Systems	London	2019	https://doi.org/10.1007/978-3-

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	on Text Documents	Systems Conference					030-29513-4_29
T. Anu and S. Sangeetha	Deep learning architectures for named entity recognition: A survey	International Conference on Advanced Computing and Intelligent Engineering Springer	215-225	Advanced Computing and Intelligent Engineering	Orissa	2018	DOI: 10.1007/978-981-15-1081-6_18
T. Anu and S. Sangeetha	Performance analysis of the state-of-the-art neural named entity recognition model on judicial domain	International Conference on Soft Computing: Theory and Applications Springer	147–154	Soft Computing	Dr B R Ambedkar National Institute of Technology, Jalandhar, Punjab	2019	DOI: 10.1007/978-981-15-0751-9_14
Ramla Sha, S. Sangeetha, S. Nickolas	Fetal Health State Monitoring Using Decision Tree Classifier from Cardiotocography Measurements	International Conference on Intelligent Computing and Control Systems - ICCS 2018 IEEE Xplore	1799-1803	Intelligent Computing		2018	DOI: 10.1109/ICCONS.2018.8663047
S. Rose, S. Nickolas and S. Sangeetha	Machine Learning and Statistical approaches used in Estimating Parameters that Affect the Soil Fertility Status: A Survey	Second International Conference on Green Computing and Internet of Things (ICGCIoT),	381-385	Green Computing and Internet of Things	Bangalore	2018	doi: 10.1109/ICGCIoT.2018.8753025
T. Anu and S. Sangeetha	A legal case ontology for extracting	Sixth International Conference	305–312.	Information Processing &	Bhopal	2017	

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	domain-specific entity relationships from e-judgments	on Recent Trends in Information Processing & Computing McGraw-Hill Proceedings		Computing			
M.Sumathi, S.Sangeetha	Enhanced Elliptic Curve Cryptographic Technique for Protecting Sensitive Attributes in Cloud Storage	9th International Conference on Advanced Computing IEEE	433-438.	Advanced Computing	Anna University Chennai	2018	DOI: 10.1109/ICCIC.2018.8782295
M. Sumathi, S. Sangeetha	Sensitive Data Identification in Cloud Based Online Banking System	International Conference on Communication and Security (ICCS 2017),		Communication and Security	SASTRA University	2017	
T. Anu and S. Sangeetha,	Tiex-A tool for extracting structured and semantic information from text document	Fourth International Conference on Business Analytics and Intelligence	1026–1032	Business Analytics and Intelligence	Indian Institute of Science, Bangalore	2016	ISBN:978-93-85909-54-2
Sangeetha. S, Michael Arock	Event Detection within Text documents using MaxEnt Classification	Proceedings of 3rd Annual International conference on Advanced Topics in Artificial Intelligence ATAI 2012	1-5	Artificial Intelligence	Singapore	2012	DOI: 10.5176/251-2179_AT AI12.06
Sangeetha. S, Michael Arock	Event Coreference Resolution using Mincut based Graph clustering	Proceedings of International workshop on Natural Language Processing (NLP 2012)	253-260	Natural Language Processing	Coimbatore	2012	DOI: 10.5121/csit.2012.2422

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S. Sangeetha, R.S.Thakur, Michael Arock	Event Detection using Lexical chain	7th International conference on Natural Language Processing Springer LNCS 6233,	314-319	Natural Language Processing	Iceland	2010,	DOI 10.1007/978-3-642-14770-8_35 Web of Science
Sangeetha. S, Michael Arock, R.S. Thakur	Event Mention Detection using Rough set and Semantic Similarity	A2CWic '10: Proceedings of the 1st Amrita ACM-W Celebration on Women in Computing in India	No.62	Women in Computing	Amrita University Coimbatore	2010,	10.1145/1858378.1858440,
S. Sangeetha, R.S. Thakur, Michael Arock	Framework for the Extraction of Clausal Mention Movement Events from the Text using its Meaning Representation ”	In proceedings of Second International Conference on Emerging Trends in Engineering and Technology	844-847	Emerging Trends in Engineering and Technology	Nagpur	2009	DOI: 10.1109/I CETET.2009.107 Web of Science

C) Book Chapters

Author(s)	Title of Book & Chapter	Name of Publishers	Year of Publication	ISSN/ISBN Number	DOI
M.Sumathi, S. Sangeetha	Advances in Big Data and Cloud Computing (CHAPTER Survey on Sensitive Data Handling— Challenges and Solutions in Cloud Storage System)	SPRINGER NATURE	2019	978-981-13-1881-8	10.1007/978-981-13-1882-5_17
Gopinath P., Balaji Rajendran, Sangeetha S	Countering Cyber Attacks and Preserving the Integrity and	IGI GLOBAL	2019	9781522582427	10.4018/978-1-5225-8241-0.ch010

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	Availability of Critical Systems (CHAPTER 10 Techniques for Analysis of Mobile Malware)				
Ramla.M, Sangeetha.S, and Nickolas. S	Edge of Things in Personalized Healthcare Support Systems Concepts Practices and Applications (YOLO You Only Look Once for Estimation of Fetal Head.)	Academic Press	2021	9780323905855	https://doi.org/10.1016/B978-0-323-90585-5.00005-9
Sangeetha.S, R.S. Thakur, Michael Arock	Advances in Natural Language Processing - Chapter- Event Detection Using Lexical Chain	SPRINGER	2010	978-3-642-14769-2	10.1007/978-3-642-14770-8_35