

PROFILE

Dr.K.Indra Gandhi, M.E., Ph.D,

Asst.Professor (Sl.Gr).

Dept. of Information Science & Technology.

Anna University.

Chennai-25.

Tamilnadu.

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Teaching Experience : 21 years

Present Position :

Assistant Professor (Sl.Gr), Department of Information Science and Technology,
College of Engineering , Anna University, Chennai from Oct-2006.

Degree :

M.E(Computer Science & Engineering), Anna University.

Ph.D in Department of Computer Science & Engineering ,Anna University ,
Chennai.

Research Guidance:

Number of M.E./ M.Tech. Projects Guided : 22

Number of M.E./ M.Tech. Projects Guiding : 2

Number of Ph.Ds Guiding :1

Area of Interest: Computer Networks, Wireless Sensor Networks, Object oriented Technologies, Artificial Intelligence, Software Engineering .

List of Publications :

International Journals:

1. K.Indra Gandhi,P.Narayanasamy, “A Cluster Based Quad-Tree Partitioning for Scheduling the Mobile Element in Wireless Sensor Networks”, International Journal of Wireless Information Networks, 2011.Vol.No18,pp 50-55, Springer Publications .
2. K. Indra Gandhi, P.Narayanasamy, “A Mixed-Integer Cost Estimation Model for Scheduling the Mobile Element in Wireless Sensor Networks “, 2010. International Journal of Computer Science and Network Security, Vol.No.10. No.5,pp. 286-294.
3. K.Indra Gandhi, P.Narayanasamy, “Mobile Element Scheduling for Efficient Data Collection in Wireless Sensor Networks: A Survey”, 2011, Journal of Computer Science, Vol.No.7 , pp. 114-119. Science Publications.
4. K.IndraGandhi, “ Energy-Efficient optimal sub-sink selection for data collection in Wireless Sensor Networks” , Proceedings of Institute of Applied Mathematics, V.2, N.2, pp.203-209 ,2013.
5. Mohammed Abubakkar. M and K. Indra Gandhi , "Efficient Node Detection for Sink Relocation to Enhance Network Lifetime in WSN" ,International Journal of Applied Engineering Research, ISSN 0973-4562 Vol. 10 No.20 ,2015, pp.18938-18942.
6. K.IndraGandhi , " A Teaching Learning Model for Software Engineering courses through sensor based cognitive approach " International Journal of Engineering Education 32(2):915-926 , January 2016.
7. K.Indra Gandhi , “Perception-Oriented Model Driven Development for Designing Data Acquisition Process in Wireless Sensor Networks”,

International Journal of Computer and Systems Engineering Vol:11, No:5, 2017.

Book Chapters

8. Indra Gandhi K., Induja K. (2020) Experimental Evaluation of Dynamic Typing Mechanism: A Case Study. Smart Computing Paradigms: New Progresses and Challenges. Advances in Intelligent Systems and Computing, vol 766. Springer, Singapore. https://doi.org/10.1007/978-981-13-9683-0_19
9. Gandhi K.I., Balaji A. (2021) Self-Learning and Self-Organizing Log Files by Generating Recursive Associations. In: Bhateja V., Peng SL., Satapathy S.C., Zhang YD. (eds) Evolution in Computational Intelligence. Advances in Intelligent Systems and Computing, vol 1176. Springer, Singapore. https://doi.org/10.1007/978-981-15-5788-0_42

International Conferences

- 10.K.Indra Gandhi, P.Narayanasamy, “Energy- aware Mobile Element Scheduling in Wireless Sensor Networks “,International conference on Sensing Technology (IEEE), ICST, Taiwan. December 2008.
- 11.K.Indra Gandhi, P.Narayanasamy ,” A Mixed-Integer Programming Model for Minimizing the Cost in Scheduling the Mobile Element in Wireless Sensor Networks“,International Conference on Sensors, Security,Software and Intelligent Systems (ISSIS),Coimbatore, January 2009.
12. K. Indra Gandhi, D. Rajasekar, M.M. Prabu Shyam , “A Cluster-Based Hierarchical Approach for Scheduling the Mobile Element in Wireless Sensor Networks” International Conference on High Performance Computing, 2008.
- 13.K. Indra Gandhi, D. Rajasekar, M.M. Prabu Shyam , “Towards Energy-Efficient and Guaranteed Network Coverage via Quad-Tree based Partitioning in Wireless Sensor Networks” ,ISSIS 2009.

- 14.K.Indra Gandhi, P.Narayanasamy , P.Usha Preethi & M.Bharath, “Coverage Holes Reduction in Movable Sensor Networks using Minimum Movement Technique “ , International Conference on Recent Trends in Information Technology, June 2011.
15. S.Pushpavalli , K.Indra Gandhi, "Stochastic analysis of data collection using Mobile Sink with fixed and variable trajectories", ICCCNT ,2013
- 16.Sam kirubakaran, K.Indra Gandhi, "Analytical Hierarchical Model for Efficient Data Forwarding " ICETTAS,2015,Kerala.
17. K. Indra Gandhi,. Janarthanan S,. Sathish R,. Surendar A , “Dominant Feature Prediction By Improved. Structural Similarity Computation. ICITIIT (IEEE), NIT Kottayam.2020
18. M Arvind Prakash, K Indra Gandhi, R Sriram and Amay Singh “An Effective Comparative Analysis of Data Preprocessing Techniques in Network Intrusion Detection System using Deep Neural Networks”, International Conference on Intelligent Computing 2K21, (accepted)

National Conference

19. A.Leo Pushparaj ,K.Indra Gandhi,Dr.P.Narayansamy, “Multihop task mapping and scheduling in Wireless Sensor Networks“ National Conference on Computational Intelligence, Security and Systems,Salem,2009.

Other Academic Activities:

- Department coordinator for NIRF ranking and IQAC (2017-2018) .
- Chief Superintendent of PG Examinations (2018-19).
- Coordinator for Ph.D Entrance Examination Question paper setting .
- Project Panel member for M.E (Multimedia Technology)

- Member in NBA and NAAC preparation committee.
- Common course coordinator for IF7151 Advances in Data Structures and algorithms ,Nov/Dec 2016.
- Faculty Advisor for a batch of UG II semester students.
- Project guide for M.Tech and M.C.A students.
- Common Course Co-ordinator for CA9125 Object-oriented Paradigm and Programming , CA9127 OOPs Lab & IT9121 Object-oriented Analysis & Design for the academic session Apr/May 2013.
- Co-ordinator for the Faculty Development Training Programme on CS2201 Data Structures for summer vacation June 19th -25th 2013
- Co-ordinator for the Faculty Development Training Programme on IT2351 – Network Programming & Management from 5th to 11th December 2011
- Conducted Two days Workshop on Software testing and Tools on 26th and 27th August 2011
- Member of the M.Tech(I.T) Project Panel Review Committee for the academic Year July2012- May2013.
- Class advisor for M.Tech (I. T) first semester for the academic session July to Nov. 2012.
- Common Course Co-ordinator for the subject CA9133 -Object oriented System Design and for CA9138 Case Tools Laboratory for the academic session Nov/Dec 2012.
- Common Course Co-ordinator for the subject CA9133 -Object Oriented System Design and for CA9138 Case Tools Laboratory for the academic session Nov/Dec 2011.
- Additional Superintend for conducting the P.G Examinations (DIST) for the academic session April/May 2012 and Nov/Dec 2012.
- Member for Syllabus framing Committee for U.G and P.G courses for various regulations.

- Organized and attended various Workshops

Organized

S. No	Name of the Programme	Sponsors	Venue	Duration	No. of Days
1	Workshop on Hands- on Session on Network Security	CPDE	Anna University, CEG Campus, Chennai	27.7.12 to 28.7.12	2
2	Workshop on Research Scope in Machine Learning	CPDE	Anna University, CEG Campus, Chennai	30.8.12 to 31.8.12	2
3	FDP: Network programming and Management- IT2351	CFD	Anna University, CEG Campus, Chennai	5.12.11 to 11.12.11	7
4	Workshop on Software Testing and Tools	CPDE	Anna University, CEG Campus, Chennai	26.8.11 to 27.8.11	2
5	FDP: Data Structures	CFD	Anna University, CEG Campus, Chennai	19.6.13 to 25.6.13	7
6	Hands-on session on Open Source testing Tools	CPDE	Anna University, CEG Campus, Chennai	6.4.13 to 7.4.13	2

Attended

S. No	Name of the Programme	Sponsors	Venue	Duration	No. of Days
1	FDP: Cryptography & Network Security –IT1352	CFD	Anna University, CEG Campus, Chennai	3.12.12 to 9.12.12	7
2	FDP: Software Engineering – CS2301	CFD	Anna University, CEG Campus, Chennai	7.5.12 to 13.5.12	7
3	Workshop on Video analytics	CPDE	MIT, Chennai	28.3.12 to 29.3.12	2
4	ISTE workshop on Basic Electronics	ISTE & IITB MHRD	Anna University, CEG Campus, Chennai	28.6.11 to 8.7.11	11

5	Short term Course on Recent trends in Computer Networks	AICTE-QIP	Anna University, CEG Campus, Chennai	18.4.11 to 30.4.11	13
6	RCWSN	CPDE	MIT, Chennai	3.3.10	1
7	Modern teaching Methods	NITTTR	NITTTR Chennai	22.6.09 to 26.6.09	5
8	FDP: Mobile communication	CFD	Anna University, CEG Campus, Chennai	2.12.08 & 8.12.08	7
9	Seminar on Research Issues in Operation Management	CPDE	Anna University, CEG Campus, Chennai	22.5.08 to 23.5.08	2
10	Short Term Course on Computer Networks	AICTE-QIP	Anna University, CEG Campus, Chennai	18.2.08 to 29.2.08	12
11	Short term Course on Recent Dev. in Network Security	AICTE-QIP	Anna University, CEG Campus, Chennai	2.3.09 to 15.3.09	14
12	ISTE workshop on database management Systems	IITB -MHRD	Anna University, CEG Campus, Chennai	21-5-13 to 31-5-13	11
13	ISTE Workshop on Computer Programming	IITB-MHRD	Anna University, CEG Campus	20-5-14 to 21-6-14	