

Profile of Dr. K. Udaya Chandrika



- (i) Designation : Professor
- (ii) Qualification : M.Sc., M.Phil., Ph.D.
- (iii) Experience : 39 years
- (iv) Specialization : Queueing theory
- (v) Email id : udayakchandrika@gmail.com
- (vi) Research Guidance:

	M.Phil	Ph.D
Degree Awarded	43	4
Guiding	1	1

- (vii) Publications

Category	Total	For the period 2010-2016
International journals	47	30
National and in house publications	9	1
Full papers in conference proceedings	18	6

- (viii) Sponsored projects: 2

S.No	Investigator / Co-Investigator	Title of the Project	Funding Agency	Amount and Duration
Research Projects:				
1.	Dr.K.Udayachandrika	Gender, Education and Employment – A Relational Approach.	Centre for Women Studies, Avinashilingam Deemed University and University Grants Commission.	Rs.5000 One year

2.	Dr.K.Udayachandrika	Stochastic Modelling – Rainfall Persistence Financial Assistance.	Dr.Rajammal.P. Devadas 80 th Birthday Endowment Fund.	Rs.40000 Two years
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- (ix) Seminars/Conferences/Workshops organized : 2
(x) Seminars/Conferences/Workshops attended: 25
(xi) Professional affiliations:
➤ Dean, School of Physical Sciences and Computational Sciences
➤ Anti Ragging Committee Member
➤ Co-ordinator IDC and MDC

1. Publications

S.No	Authors	Title of the Article	Name of the Journal, Vol. Year, page No	ISSN No. and Impact Factor
a) International Journal Publications:				
1.	Dr.K.Udayachandrika	Transient Analysis of a System with Queue Dependent Servers and Controllable Arrivals	Economic Quality Control, Vol.21, No.2, 2006 291-299	0940-5151
2.	Dr.A.Srinivasan, K.Prakash Rani and Dr.K.Udaya Chandrika	Retrial Queueing System with Two – Phase service and Vacation	Acta Ciencia Indica Vol.XXXIII M,No.2, 2007 365-370	0970-0455
3.	Dr.K.Udayachandrika, D.Yasodha, Ebenesar Anna Bagyam and K.Prakash Rani	Two Phase Service Retrial Queue With Emergency and Multiple Vacations	Acta Ciencia Indica Vol.XXXIV M,No.1, 2008 161-168	0970-0455
4.	K.Prakash Rani Dr.A.Srinivasan and Dr.K.Udayachandrika	An M/G/1 Retrial Queue with Additional Optional Service And Server Vacation	Acta Ciencia Indica Vol.XXXIV M,No.4, 2008 1807-1813	0970-0455
5.	J.Ebenesar Anna Bagyam and Dr.K.Udayachandrika	Single Server Retrial Queueing System with Two Different Vacation Policies	International Journal of Contemporary Mathematical Sciences, Vol.5, No.32, 2010, 1591 – 1598	1312-7586
6.	Dr.K.Udayachandrika, Dr.K.Muthulakshmi and J.Ebenesar Anna Bagyam	Interdependent Queueing System With Varying Modes Of Operation	International Journal of Current Research, Vol 8, September 2010, 242-247	0975-833X IF -0.455

7.	K.P.Uma, Dr.K.Udayachandrika and Dr.A.Srinivasan	Man Power Model for a Two Graded System with sane Renewal Process for Interdecision Times and Bivariate Policy of Recruitment	Antartica Journal of Mathematics, vol 8, No. 5, Nov 2011, 459-464	0972-8643
8.	D.Sumitha and Dr.K.Udayachandrika	Numerical Analysis of Two Phase Bulk Arrival Retrial Queue with Orbital Search	International Journal of Advanced Scientific and Technical Research, Issue 1, Vol. 2, December 2011, 483-493	2249-9954 IF – 2.94
9.	J.Ebenesar Anna Bagyam and Dr.K.Udayachandrika	Non-Persistent Retrial Queueing system with Two Types of Heterogeneous Service	Global Journal of Theoretical and Applied Mathematical Sciences, vol 1, No.2,2011,157-164	2248-9916
10.	K.P.Uma, Dr.K.Udayachandrika and Dr.A.Srinivasan	Expected Time to Recruitment in a Two Graded Man Power System using a Bivariate Policy of Recruitment	Reflections des ERA – JMS, Vol 6, Issue 2, 2011, 189- 198	0973-4597
11.	D.Sumitha and Dr.K.Udayachandrika	Retrial Queueing System with Starting Failure, Single Vacation and Orbital Search	International Journal of Computer Applications, Volume 40, No.13, February 2012, PP: 29-33	0975-8887 IF - 0.814
12.	D.Sumitha and Dr.K.Udayachandrika	Performance Analysis of Repairable M/G/1 Retrial Queue with Bernoulli Vacation and Orbital Search	International Journal of Mathematical Archive, 3(2), February 2012, PP: 412 – 419	2229-5046 IF – 4.091
13.	Dr.K.Prakash Rani Dr.A.Srinivasan and	Retrial Queue with Two Modes of Failure	Mathematical Sciences	ISSN 2278-8697

	Dr.K.Udayachandrika		International Research Journal, Vol. 1(3), 2012, pp: 971-976	ISBN 978-93-81583-57-9
14.	D.Sumitha, J. Ebenesar Anna Bagyam, Dr.K.Udayachandrika and Dr.K.Prakash Rani	Bulk Arrival Two Phase Retrieal Queueing System with Orbital Search, Impatient Customers and Different Type of Server Vacations	Mathematical Sciences International Research Journal, Vol. 1(3), 2012, pp: 977-987	ISSN: 2278-8697 ISBN 978-93-81583-57-9
15.	J.Ebenesar Anna Bagyam and Dr.K.Udayachandrika	Two Phase Retrieal Queueing System with Impatient Customers, Additional Optional Servie, Server Breakdown, Delayed Repair and Reserved Time	International Journal of Mathematical Archive, 3, 6, 2283-2290, 2012	2229-5046 IC value – 5.09
16.	J.Ebenesar Anna Bagyam and Dr.K.Udayachandrika	Performance Analysis of a Single Server Retrieal Queueing System with Bernoulli and Phase Type Vacations	International Journal of Computer Applications, Vol 54, No. 7, 30-35, 2012	0975-8887 IF - 0.814
17.	Dr.K.Udayachandrika and C.Kalaiselvi	Batch Arrival Feedback Queue with Additional Multioptional Service and Multiple Vacation	International Journal of Scientific and Research Publications, Vol 3, No.3, March 2013	2250-3153
18.	J.Ebenesar Anna Bagyam and Dr.K.Udayachandrika	Bulk Arrival Two Phase Retrieal Queueing System with Impatient Customers, Orbital Search, Active Breakdowns and Delayed Repair	International Journal of Computer Applications , 73, 11, 13-17, July 2013	0975 -8887 IF - 0.814
19.	J.Ebenesar Anna Bagyam and Dr.K.Udayachandrika	$M / (G_1 , G_2 , \dots , G_k) / 1$ Retrieal Queueing System With Server Breakdown, Delayed Repair And Reserved Time	International Journal of Emerging Technology and Advanced Engineering, 3,8, 587-597, August 2013	2250-2459 ISO: 9001:2008
20.	J.Ebenesar Anna Bagyam and Dr.K.Udayachandrika	Bulk Arrival Two Phase Retrieal Queue with Two Types Service and Extended Bernoulli Vacation	International Journal of Mathematics Trends and Technology, 4, 7, 116-124, Aug 2013	2231-5373 IC Value - 3.86

21.	J.Ebenesar Anna Bagyam Dr.K.Udayachandrika and Dr.K.Prakashrani	$M^x/\left\{\begin{matrix} G_1 \\ \\ G_2 \end{matrix}\right\}/1$ Retrial Queueing System With Active Breakdown, Delayed Repair And Reserved Time	Asian Academic Research Journal of Multidisciplinary,1, 13, 93-103, Sep. 2013	2319-2801 IF – 2.015
22.	J.Ebenesar Anna Bagyam and Dr.K.Udayachandrika	Multi-Stage Retrial Queueing System with Bernoulli Feedback	International Journal of Scientific & Engineering Research, 4, 9, 496 - 499, September- 2013	2229-5518 IF – 1.4
23.	J.Ebenesar Anna Bagyam and Dr.K.Udayachandrika	Batch arrival retrial queuing system with state Dependent admission and bernoulli vacation	International journal of research in engineering and technology, volume: 02 issue: 10 oct-2013, 374-379	E: 2319-1163 P: 23321-7308 IF - 1.9
24.	D.Sumitha and Dr.K.Udayachandrika	$M^x/G/1$ Retrial Queue with Second Optional Service, Feedback, Admission Control and Vacation	International Journal of Innovative Research in Science, Engineering and Technology, Vol. 3(1), 2014, pp: 8320-8329	12319 – 8753 IF – 1.682
25.	K.Kirupa and Dr.K. Udaya Chandrika	Batch Arrival Retrial G- queue and an unreliable server with Delayed Repair	International Journal of Innovative Research in Science, Engineering and Technology, vol 3, issue 5, 2014,pp 12436-12444	2319 – 8753 IF - 1.682
26.	K.Kirupa and Dr.K. Udaya Chandrika	Batch Arrival Retrial G- queue with Additional Multi-optional Service and Server Breakdown	Blue Ocean Research Journals- Journal of Engineering Computers & Applied Sciences, vol 3, issue 7, 2014,pp 6-11.	2319- 5606 IF - 3.423
27.	K. Kirupa K. Udaya Chandrika	“Batch Arrival Retrial Queue with Negative Customers, Multi- optional Service and Feedback”	Communications on Applied Electronics-CAE, Foundation of	ISBN: 973-93- 80888-75-5

			Computer Science Digital Library URI : 385- 2015651707, Vol.2, No.4, July 2015	
28.	R. Poornima, K. Kirupa and Dr. K. Udaya Chandrika (Mathematics)	"M/(G1 G2)/1 Retrial Queue with Negative arrivals and Bernoulli Feedback"	International Journal of Scientific Research in Science, Engineering and Technology, (IJSRSET) Vol.1 No.3, pp.114- 121, May – June 2015	Print ISSN: 2395- 1990, Online: 2394- 4099 4099, IF:2.9
29.	D.Sumitha & K.Udayachandrika. (Mathematics)	"Unreliable Batch Arrival Retrial Queue With Delayed Repair, Randomized J Vacations and Orbital Search"	International Journal of Scientific Research (IJSR), Vol.4, No.7, pp. 27-34, July 2015	ISSN: 2277 – 8179, IF:3.2416,
30.	K. Kirupa K. Udaya Chandrika	Bulk Arrival Retrial Queue With Fluctuating Modes Of Service and Immediate Feedback	International Journal of Trend in Research and Development, Vol 3, Issue 4, August 2016	2394-9333
31.	S.Sowmiya K.Udaya Chandrika	Batch Arrival Retrial Queue with Fluctuating Modes of Service, Randomized Vacations and Orbital Search	International Journal of Latest Trends in Engineering and Technology (IJLTET), Vol 7 Issue 1, May 2016	2278-621X
32.	D.Sumitha K.Udaya Chandrika.	Retrial Queue with Impatient Customers, Multi Optional Second Phase, Bernoulli Vacation and Orbital Search	International Journal of Innovations in Engineering and Technology (IJJET), Volume 7, Issue 2, August 2016	2319-1058
33.	A.Yamuni K. Kirupa K. Udaya Chandrika	Bulk Arrival Retrial Queue With Fluctuating Modes Of Service, Immediate Feedback, Server Vacation And Orbital Search	International Journal Of Engineering Sciences & Research Technology, 5(9): September, 2016	2277-9655
34.	D.Sumitha K.Udaya Chandrika	Batch arrival retrial queue with delay time and additional multi-optional repair	International Journal of Advanced Computer Research Vol 7(28), pp. 32-41, December-2016	2249-7277

35.	K. Prakash Rani K. Udaya Chandrika U. Elayarani	BMAP Two Phase Retrial Queue with Feedback	International Journal of Science and Research (IJSR), Volume 6 Issue 12, December 2017	2319-7064
36.	Dr. K. Prakash Rani Dr. K. Udaya Chandrika Dr.J.Ebenesar Anna Bagyam	Bulk Arrival Retrial Queue With Non Persistent Customers, Active Breakdown, Delayed Repair And Orbital Search	International Journal of Scientific & Engineering Research Volume 8, Issue 12, December-2017	2229-5518
37.	J. Ebenesar Anna Bagyam K. Udaya Chandrika	Fuzzy analysis of bulk arrival two phase retrial queue with vacation and admission control	The Journal of Analysis, July 2018	0971-3611
38.	K. Kirupa K. Udaya Chandrika	Unreliable Batch Arrival Retrial G-queue with Fluctuating Modes of Service, Preemptive Priority and Orbital Search	International Journal of Mathematics Trends and Technology, Special Issue, pp 45-53, March 2018	2231-5373

b) National Journal Publications:

30.	Dr.K.Udayachandrika	Transient Analysis of a System with Queue Dependent Servers	OPSEARCH, Vol.43, No.2, 2006 178-189	0030-3887
31.	J. Ebenesar Anna Bagyam, K. Udaya Chandrika and A. Viswanathan (Mathematics)	“Bulk Arrival Multi-Stage Retrial Queue with Vacation”	<i>Applied Mathematical Sciences</i> , Vol.9, No.54, pp.2691- 2706,	IF:0.47 2015

c) In-house Publications:

32.	Dr.K.Udayachandrika, Dr.G.VKrishna Reddy and Dr.R.Nadarajan	Transient Analysis of Markovian Queueing System with Two Heterogenous Servers and Balking	Research Highlights Journal of the Avinashilingam Deemed University, Vol.6, No.1, 1996,32-36.	2231-2374
33.	Dr.K.Udayachandrika	Time-Dependent Queueing system with repeated Vacation	Research Highlights Journal of the Avinashilingam Deemed University, Vol.15, No.3, 2005 138-141.	2231-2374

34.	Dr.K.Udayachandrika and P.Nirmala	Bulk Arrival Retrial Queue with Additional Optional Service and Preemptive Priority	Research Highlights Journal of the Avinashilingam University for women Vol.17, No.2, 2007 95 – 99.	2231-2374
35.	J.Ebenesar Anna Bagyam and Dr.K.Udayachandrika	Two Phase Retrial Queue With impatient customers and Orbital search	Research Highlights Journal of the Avinashilingam University for women Vol.18, No.3, 2008, 152 - 157.	2231-2374
36.	Dr.K.Prakash Rani and Dr.A.Srinivasan and Dr.K.Udayachandrika	Impatient customers Bulk Arrival Retrial Queue with Server Breakdown and Delayed Repair.	Advances In Applied Research, Vol.1, No.1, 2009 60 – 68	0974-3839
37.	Dr.S.Muthulakshmi and Dr.K.Udayachandrika	Descriptive Analysis of Rainfall Persistence	Research Highlights Journal of the Avinashilingam University for women Vol.19, No.4, 2009, 232 - 240.	2231-2374
38.	Dr.K.Udayachandrika and D.Sumitha	Bulk Arrival Two Phase Retrial Queue With Feedback and Orbital Search.	Research Highlights Journal of the Avinashilingam University for women Vol.20, No.4, 2010, 225 - 231.	2231-2374
39.	Dr.K.Udayachandrika and D.Sumitha	Performance measures of Feedback Batch Arrival Retrial Queue with Optional second service and orbital search	Advances in Applied Research, Vol.3, NO.2, July-December 2011, PP:179-186	0974-3839

d) Full-length Articles in Proceedings:

40.	Dr.S.Muthulakshmi and Dr.K.Udayachandrika	IT – A Way to Improve Enrolment/ Achievement	International Conference on the Women in Digital Era, Opportunities and Challenges. Annamalai University	December 10-12, 2003
41.	Dr.K.Udayachandrika and Dr.S.Muthulakshmi	Markovian Queue with Controllable Arrival and State Dependent Servers	National Conference on Mathematical and Computational Models NCMCM 2003, PSG College of Technology	December 11-12, 2003, pp 71-78
42.	Dr.A.Srinivasan and Dr.K.Udayachandrika and Dr.K.Prakash Rani	Multi Channel Finite Capacity Queue with Balking, Reneging and Dependent Arrival Rate	National Seminar on Mathematical Modelling to Social and Managerial Problems NSOMES 2004, ADM College for Women	September 24-25, 2004, pp 145-159
43.	Dr.K.Udayachandrika and K.P.Uma	Transient Analysis of a System with Queue Dependent Servers and Controllable Arrivals	National Conference on Computing and Mathematical Modeling NCCMM 5, Gandhigram Deemed University	March 25-26, 2005, pp 261-267
44.	Dr.K.Udayachandrika, Dr.A.Srinivasan, K.P.Uma and V.Saavithri	Expected Time to Recruitment Time for an Univariate Policy when Threshold Distribution has SCBZ Property	National Conference on Mathematical and Computational Models, PSG College of Technology	December 15-16, 2005, pp 242-246
45.	J.Ebenesar Anna Bagyam and Dr.K.Udayachandrika	Single Server Retrial Queueing System with Different Vacation	UGC Sponsored National Conference on	March 23-24 2007

		Policies	Recent Trends in the Application of Mathematics and Statistics with Reference to Physical and Social Sciences organised by Post Graduate and Research Department of Mathematics, Sri Vasavi College, Erode	
46.	D.Sumitha and Dr.K.Udayachandrika	A Feedback Retrieval Queueing System with Starting Failures and Orbital Search	National conference on Intelligent Computing organised by Department of Computer Science and Engineering, Avinashilingam Deemed University for Women	3 rd February 2010
47.	J.Ebenesar Anna Bagyam and Dr.K.Udayachandrika	Two Phase Retrieval Queueing System with Active BREAKDOWN, Delayed Repair and Reserved Time	2 nd National Conference on Recent Advancements in Science and Humanities Department of Science and Humanities, United Institute of Technology, Coimbatore	March 18-19 2011
48.	J.Ebenesar Anna Bagyam and Dr.K.Udayachandrika	Retrial Queue with Impatient Customers, Additional Optional Service, Server Breakdown, Delayed Repair and Reserved Time	AICTE Sponsored National Conference on Scientific Computing and Applied Mathematics Department of Science and Humanities, VLB	June 29-30 2011

			Janakiammal College of Engineering and Technology, Coimbatore	
49.	J.Ebenesar Anna Bagyam and Dr.K.Udayachandrika	Unreliable $M^x / \begin{pmatrix} G_1 \\ 1 \\ G_2 \end{pmatrix}$ Retrial Queueing System with Delayed Repair and Reserved Time	UGC Sponsored National Seminar on The Strategic Role of Mathematical and Statistical Models PG & Research Department of Mathematics , ADM College for Women, Nagapattinam	July 4 and 5 2013
50.	N.Sangeetha Dr.J.Ebenesar Anna Bagyam Dr.K.Udaya Chandrika	Bulk Arrival Multi-Stage Retrial Queue with Feedbac	International Conference on Mathematical Computer Engineering	December 11 and 12 , 2018

e) Books / Chapters in Books / Books Edited:

50.	Dr.G.V.Krishna Reddy, Dr.S.Nadarajan and Dr.K.Udayachandrika	Finite Capacity Markovian Queue with Balking and Reneging	International Conference on Stochastic Models, Optimization Techniques and Computer Applications, PSG College of Technology	15 th - 17 th Dec 1994 ISBN 81-224-0704-8 pp 258-275
51.	Dr.K.Prakash Rani and Dr.A.Srinivasan and Dr.K.Udayachandrika	Retrial Queue with Server Breakdown and Delayed Repairs	International Congress on Productivity, Quality Reliability, Optimization and Modelling	7 th -8 th Feb 2011 ISBN 978-81-842-708-4 pp 34-47
52.	M.Malarvizhi and Dr.K.Udayachandrika	Repairable Unreliable Single Server Queueing System with Bulk Arrival Two Stage Service and Vacation	National Conference on Recent Advancements in Science and Humanities RASH 2011	18 th -19 th March 2011 ISBN 978-81-920799-1-2 pp 44-48
53.	R.Roobala and Dr.K.Udayachandrika	Batch Arrival Feedback Queue with Additional Optional Service and Server Vacation	National Conference on Recent Advancements in Science and Humanities RASH 2011	18 th -19 th March 2011 ISBN 978-81-920799-1-2 pp 49-53

54.	J.Ebenesar Anna Bagyam and Dr.K.Udayachandrika	Two Phase Retrial Queueing System with Active Breakdown, Delayed Repair and Reserved Time	National Conference on Recent Advancements in Science and Humanities RASH 2011	18 th -19 th March 2011 ISBN 978-81-920799-1-2 pp 54-59
55.	D.Sumitha and Dr.K.Udayachandrika	A Repairable M/G/1 Retrial Queue with Bernoulli Vacation and Orbital Search	UGC and DST – Curie sponsored International Conference Mathematics and its Applications – A New Wave ICMANW – 2011 organised by Department of Mathematics, Avinashilingam University	21 st and 22 nd December 2011 ISBN 978-81-9237-520-5 pp 225-232
56.	Dr.K.Udayachandrika, C.Kalaiselvi, T.Saranya	M/G/1 Feedback Queue with Additional Multi Optional Service and Multiple Vacation	UGC and DST – Curie sponsored International Conference Mathematics and its Applications – A New Wave ICMANW – 2011 organised by Department of Mathematics, Avinashilingam University	21 st and 22 nd December 2011 ISBN 978-81-9237-520-5 pp 247-254

International / National Conferences / Seminars / Workshops

S.No	Authors	Name of the Conference	Organizer	Date
a) Only attended:				
1.	Dr.K.Udayachandrika	Third Ramanujan Symposium on Stochastic Processes and their Applications	Ramanujan Institute for Advanced Study in Mathematics, University of Madras	17.01.1994 - 19.01.1994
2.	Dr.K.Udayachandrika	International Conference on Stochastic Models, Optimization Techniques and computer Application	PSG College of Technology	15.12.1994 - 17.12.1994
3.	Dr.K.Udayachandrika	UTA Symposium on HIV/AIDS/STDs and Healthy Life Styles	Avinashilingam University for Women, Coimbatore	24.02.1999 – 25.02.1999

4.	Dr.K.Udayachandrika	Seminar on Radiation Physics	Avinashilingam Deemed University, Coimbatore	21.02.2003
5.	Dr.K.Udayachandrika	Seminar on Recent Trends in Mathematics and its Applications	Avinashilingam Deemed University, Coimbatore	13.03.2003
6.	Dr.K.Udayachandrika	Workshop on Reengineering Teaching Skills	Avinashilingam Deemed University, Coimbatore	09.03.2004 - 10.03.2004
7.	Dr.K.Udayachandrika	Seminar on Recent Trends in Teaching Strategies	Avinashilingam Deemed University, Coimbatore.	20.02.2006
8.	Dr.K.Udayachandrika	International Seminar on Multifaces of Textiles	Avinashilingam University for Women, Coimbatore	10.08.2006
9.	Dr.K.Udayachandrika	National Workshop on Recent Trends and Challenges in Applications of Mathematics	Avinashilingam University for Women, Coimbatore	14.12.2006
10.	Dr.K.Udayachandrika	9 th National Tamil Science Congress	Alagappa university, Karaikudi	11.09.2009 - 13.09.2009
11.	Dr.K.Udayachandrika	International Seminar On Research Methodology and data Interpretation	Avinashilingam University for Women, Coimbatore	28.01.2010
12.	Dr.K.Udayachandrika	Workshop on Sensitization of UGC norms for Promotion and Recruitment of University Teachers (XI Plan Regulations)	Avinashilingam University for Women, Coimbatore	30.11.2010
13.	Dr.K.Udayachandrika	UGC Sponsered National Workshop on Entrepreneurial Stimulation for Youth	Avinashilingam University for Women, Coimbatore	29.03.2011 - 30.03.2011
14.	Dr.K.Udayachandrika	National Conference on Advances in Video, Cyber Learning and Electronics	National Institute of Technical Teachers, Training and Research, Chanigarh	01.03.2012 - 02.03.2012
15.	Dr.K.Udayachandrika	100 th Indian Science Congress	Calcutta University, Kolkata	03.01.2013 – 07.01.2013
16.	Dr.K.Udayachandrika	Conference on Are You Learning as Fast as the World is Changing	Confederation of Indian Industries, Coimbatore	07.02.2013

17.	Dr.K.Udayachandrika	Innovations in Mathematics	Avinashilingam Institute for Home Science and Higher Education for Women, Coimbatore-43	12.02.2015 & 13.02.2015
18.	Dr.K.Udayachandrika	Contemporary Dimensions in Library and Information Science	The Central Library of Avinashilingam Institute for Home Science and Higher Education for Women, Coimbatore	27.01.2018
19.	Dr.K.Udayachandrika	Cyberethics : Social and Moral Moral Issues	Avinashilingam Institute for Home Science and Higher Education for Women, Coimbatore	17.02.2018
20.	Dr.K.Udayachandrika	Recent Trends in Mathematics and Information Technology	Avinashilingam Institute for Home Science and Higher Education for Women, Coimbatore-43	01.03.2018 & 02.03.2018

b) Paper Presented (Papers not in proceedings):

S.No	Au tho rs	Title of the Article	Name of the Journal, Vol. Year, page No	ISSN No. and Impact Factor
17.	Dr.K.Udayachandrika	Multichannel Markovian Queue	National Seminar on Discrete Analysis Sri Ramakrishna Mission Vidyalaya, Coimbatore	22 nd –24 th March, 1999
18.	Dr.K.Udayachandrika	Two Heterogeneous Markovian Queue with Bulk Service with a Provision for an Lateral Input into Batches being Served.	XXIII Indian Social Science Congress Avinashilingam Deemed University and Indian Academy of Social Sciences, Allahabad .	26 th – 31 st December , 1999
19.	Dr.K.Udayachandrika	Finite Capacity Markovian Queue with State dependent Server	8 th National Tamil Science Congress, CECRI- Karaikkudi.	24 th – 25 th February 2000

20.	Dr.K.Udayachandrika	On a Non – Markovian Time Dependent Queueing System with Repeated Vacation.	State Level Seminar on Statistical Techniques with Computer Applications. PSG College of Arts and Science, Coimbatore.	23 rd – 24 th March, 2000
21.	Dr.K.Udayachandrika	IT a way to Improve Enrolment / Achievement of	Annamalai University, Annamalai Nagar	10 th – 12 th December , 2003
		Women, International Conference on women in the digital era, Opportunities and Challenges		
22.	Dr.K.Udayachandrika	Mathematical Model : Forested Grass land National Symposium on recent trends in Applied Biology	Avinashilingam Deemed University and Regional Sericultural Research Station Central Silk Board Ministry of Textiles Govt. of India, Salem	28 th – 29 th January, 2004
23.	Dr.K.Udayachandrika	Multi Channel Finite Queue with Balking Reneging and Dependent arrival rate,	National seminar on Mathematical Modeling to social and Managerial Problems , A.D.M College for Women, Nagapattinam	24 th – 25 th September 2004
24.	Dr.K.Udayachandrika	Retrial Queue with Server Breakdown and Repair.	National Conference on Recent Developments in Mathematics and its Applications, Government Arts College for Women, Pudukkotai	28 th – 29 th March, 2008
25.	Dr.K.Udayachandrika		9 th National Tamil Science Congress, Alagappa University, Karaikudi	11 th – 13 th September , 2009

26.	Dr.K.Udayachandrika	Numerical Analysis of Two Phase Bulk Arrival Retrial Queue with Orbital Search	International Seminar on New Trends in Applications of Mathematics ISNTAM organised by Department of Mathematics, Bharatha Mata college, Thrikkakara, Kerela and Kerela Mathematical Association.	31 st January 2011 to 2 nd February 2011
27.	Dr.K.Udayachandrika		AICTE Sponsored National conference in Scientific Computing and Applied Mathematics, VLB Janakiammal College of Engineering and Technology, Cbe-42	29 th – 30 th June 2011
28.	Dr.K.Udayachandrika	Creativity in Science and Technology	UGC Sponsered National conference on Creativity, Innovation and Enterpreneurship	16 th – 17 th Feb 2012
29.	Dr.K.Udayachandrika	Bulk Arrival Retrial Queue with unreliable server, delayed repair, Bernoulli vacation and orbital search	100 th Indian Science Congress held at Calcutta University, Kolkata	January 3 – 7, 2013
c) Abstract in proceedings (As presenting Author)				
30.	Dr.K.Udayachandrika	Two Phase Retrial Queue with Vacation, Starting failures and Orbital Search	National Conference on Discrete Mathematics, Algebra and their Applications – 2009 organised by Department of Mathematics, Karpagam University	22 nd and 23 rd December 2009

31.	Dr.K.Udayachandrika	Special Double Sampling Plan with Fuzzy Parameters	National Conference on Discrete Mathematics, Algebra and their Applications – 2009 organised by Department of Mathematics, Karpagam University	22 nd and 23 rd December 2009
32.	Dr.K.Udayachandrika	Non Persistent Retrial Queueing System with Two types of Heterogeneous Service	UGC Sponsored National Conference on Advances in Applied Mathematics Department of Applied Mathematics, Bharathiar University, Coimbatore	20 th and 21 st January 2011
33.	Dr.K.Udayachandrika	Single Server Retrial Queue with Vacation and Orbital Search	UGC Sponsored National Conference on Advances in Applied Mathematics (NCAAM-2011) Organized by Department of Applied Mathematics BharathiarUniversity	20 th and 21 st January 2011
34.	Dr.K.Udayachandrika	Poster Presentation- Two Phase $M^x/G/1$ Retrial Queue with Non Persistent Customers, Active Breakdown, Delayed Repair and Orbital Search(Guide Presented)	100 th Indian Science Congress Calcutta University	January 3-7 2013
35.	Dr.K.Udayachandrika	Bulk Arrival Retrial Queue with unreliable server, delayed repair, Bernoulli vacation and orbital search	100 th Indian Science Congress held at Calcutta University, Kolkata	January 3 – 7, 2013

d) Abstract in proceedings (As supervising Co-author):

36.	Ebenesar Anna Bagyam and Dr.K.Udayachandrika	Retrial Queues with two types of Heterogeneous service and impatient customers	National Seminar on Emerging Trends in Science and Humanities Studies Department of Science and Humanities, Jawaharlal Institute of Technology, Coimbatore	November 12 2010
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37.	D.Sumitha and Dr.K.Udayachandrika	Numerical Analysis of Two Phase Bulk Arrival Retrial Queue with Orbital Search	International Seminar on New Trends in Applications of Mathematics ISNTAM organised by Department of Mathematics, Bharatha Mata college, Thrikkakara, Kerela and Kerela Mathematical Association	31.01.2011 to 2.2.2011
38.	Ebenesar Anna Bagyam and Dr.K.Udayachandrika	Steady State Analysis of the Multi Phasse Retrial Queueing System with Feedback	National Conference on Recent Frontiers in Applied Dynamical Systems Department of Mathematics, School of Science and Humanities, Karunya University, Coimbatore	21 st and 22 nd January 2011
39.	D.Sumitha and Dr.K.Udayachandrika	Two Phase Bulk Arrival Retrial Queue with Orbital Search	National Conference on Recent Frontiers in Applied Dynamical Systems – NCRFADS 2011 organised by Department of Mathematics, Karunya University	21 st and 22 nd January 2011
40.	T.Saranya, D.Sumitha and Dr.K.Udaya Chandrika	Two Phase Retrial Queue with Balking, Reneging, Server Breakdown, Feedback and Bernoulli Vacation	CSIR and DRDO sponsored one day National Seminar on Recent advances in Mathematics and its Applications organised by Teja Shakthi Institute of Technology for Women, Karumathampatti	24 th August 2012

41.	D.Sumitha, Dr.T.K.S.Lakshmi Priya and Dr.K.Udayachandrika	A Retrial Queue based Performance model with Maintenance feature for a Web server	International Conference on Innovation in Communication, Information and Computing (ICICIC'13) Sasurie College of Engineering, Tirupur.	9 th to 11 th Jan 2013
42.	K.Kirupa and Dr.K. Udaya Chandrika	Batch Arrival Retrial G- Queue with Modified Vacations and Unreliable Server	National Conference on Advances in Statistical Theory, Modeling and Applications (NCASTMA) Department of Statistics, Bharathiar University, Coimbatore.	27 th - 28 th March 2014

2. Refresher Courses / Orientation Courses / Training Programmes / Equivalents attended

1. Refresher course in Mathematics organised by the Academic Staff College, Pondicherry University from 01.09.1994 to 21.09.1994.
2. Refresher course in Mathematics from 04.03.1998 to 31.03.1998 at Bharathidasan University, Tiruchirapalli.
3. Need Based Refresher Course in Instructional Technology and Evaluation in Higher Education from 15.02.2002 to 07.03.2002
4. UGC sponsored programme on Micro Computers and Programming Languages at Tamil University, Thanjavur from 02.11.1987 to 09.12.1989 – got **FIRST RANK**.
5. Certificate Course in Computer Programming, Annamalai University – 1984.
6. NSS Orientation Course from 08.07.1998 to 17.07.1998 organised by Training and Orientation Center, Sri Avinashilingam Trust Institutions, Coimbatore.

3. Achievements (Chairperson / Resource Person / Invited Lectures)

1. Resource Person : Young Students Scientist Programme
2. Resource Person : National Seminar on Emerging Trends in Science and Humanities Studies, VIBRANT 2010, Jawaharlal Institute of Technology, 12 th Nov 2010.

3. Resource Person : Contact Classes at PG Level, Annamalai University, Distance Education Programme.
4. Doctoral Committee : Ph.D. Programme. - Doctoral Committee Member, Anna University
Ph.D. Programme. - Doctoral Committee Member, Coimbatore Institute of Tehnology,
5. Question Paper Setter : (i) Tamil Nadu Agricultural University, Coimbatore.
(ii) Meenakshi College for Women, Chennai.
(iii) Bharathidasan University, Trichy.
(iv) Periyar University, Salem
(v) P.S.G.R.Krishnammal college for women, Coimbatore
6. Convenor : (i) Kalaivizha Committee for 5 years (1999 - 2004 and 2013 -2017
(ii) Science Day Finance Committee
(iii) Thanks Giving Day Finance Committee
7. Member : (i) Member in Board of Studies in Mathematics, Avinashilingam University for Women and Avinashilingam Engineering College
(ii) Examination Committee, Avinashilingam University.
8. Member of Board of Studies to adjudicate the Ph.D Thesis entitled A Study on Fuzzy Inventory Models at Manonmaniam Sundaranar University.
9. Examiner for Ph.D Viva Voce Examination for the candidate Ms.S.Sasikala, 'A Study on various Interdependent Inter Arrival and Service times Queueing models with Reverse Balking, Reverse Reneging and Controllable Arrival rates' dated 03.09.2018 held at St.Joseph College, Tiruchirapalli
10. Member of Board of Studies in Nehru Memorial College, Puthanampatti
11. Helped in conducting a Seminar in Mathematics on 13.03.2003 and a Workshop in Mathematics on 14.12.2005.

Conferences / Seminars / Symposia / Workshops Organized:

1. Workshop on ' Path Finder – Explore, Experiment, Elucidate Research: A Colloquium – 2010' on December 22nd and 23rd 2010 at Avinashilingam University.
2. Research Convention 'Research Ethics and Post Research Perspectives' on August 10th and 11th 2011 at Avinashilingam University.

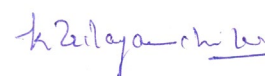
3. Workshop on 'Path Finder – Explore, Experiment, Elucidate Research: A Colloquium – 2012 on February 21st to 23rd 2012 at Avinashilingam University.
4. Innovations in Mathematics 12-13 February 2015
5. International Conference on Recent trends in Mathematics and Information Technology 1st and 2nd March 2018.

Any Other:

Extension Activities

Nature of Extension Work done	From	To	Number of Days
1) NSS Programme Officer	1998	1999	1 year
2) NSS Assistant Programme Officer	1994	1995	1 year
3) NSS Assistant Programme Officer	2001	2002	1 year
4) NSS Assistant Programme Officer	2006	2007	1 year
5) NSS Programme Officer	2015	2016	1 year
6) NSS Assistant Programme Officer	2016	2017	1 year

- 5) Conducted Special Camps
- 6) Constructed water tank with tap provision in Perianaicken Palayam Government School
- 7) Involved in all NSS regular and special activities like medical camp, eye camp, cleanliness campaign, voters awareness, soap preparation, kitchen garden, consumer awareness, etc.
- 8) Constructed sanitary latrine and urinal at Kalappanaicken Palayam for Balwadi children worth of Rs.40,000
- 9) Prepared Mathematical models, charts and toys for school and balwadi children
- 10) CSS incharge for PG students for five years.



Signature of the staff