Staff Profile

DR. VISWANATH C. NARAYANAN

Assistant Professor

Mathematics Department

Qualification	:	M.Sc., UGC-NET, Ph.D
Telephone	:	9495851753
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Professional Experience	:	Asst. Professor in Mathematics (1) 27-05-2004 to 15-6-2007, Govt. Engg. College, Sreekrishnapuram, Palakkad (2) 16-6-2007 to till date, Govt. Engg. College, Thrissur.
Interests	:	Stochastic Modeling of Queues; Inventory; Reliability; Biological Processes; Problems in Medical Science, Computer Science and Water quality maintaining.
Publications	:	Please see Annexure I
Research/Consultancy	:	Guiding one Part-time Research Scholar for Ph.D
Additional Responsibilities	:	Member of **INDUSTRY INSTITUTE INTERACTION CELL** **Government Engineering College, Thrissur**

ANNEXURE I

Publication List

(A) Research papers In International Journals

(2005)

A1. A Krishnamoorthy, Viswanath C Narayanan and T G Deepak; On a Queueing System with Self-Generation of Priorities; **Neural, Parallel & Scientific Computations;** Vol.13, 2005; pp. 119-130.

A2. A Gomez- Corral, A Krishnamoorthy and Viswanath C Narayanan; The Impact of Self-Generation of Priorities on Multi-Server Queues with Finite   Capacity; **Stochastic Models**, Vol.21, Number 2-3/2005; PP. 427-447

Impact factor: 0.449 © 2011 Thomson Reuters, 2010 Journal Citation Reports

(2006)

A3. A Krishnamoorthy, T G Deepak, Viswanath C Narayanan and K Vineetha; Effective utilization of idle time in an (s, S) inventory with positive service time, **Journal of Applied Mathematics and Stochastic Analysis (JAMSA)**, vol. 2006, Article ID 69068, 13 pages, 2006. doi:10.1155/JAMSA/2006/69068. (This article now available at International Journal of Stochastic Analysis, Hindawi Publishing Corporation)

A4.   A Krishnamoorthy, Viswanath C Narayanan, T G Deepak and K Vineetha; Control Policies for Inventory with Service Time; **Stochastic Analysis and Applications;** Volume 24, Number 4/2006, PP.889-899

Impact factor: 0.459 © 2012 Thomson Reuters, 2011 Journal Citation Reports

(2007)

A5. A Krishnamoorthy, Viswanath C Narayanan and T G Deepak; Optimal utilization of service facility for a k - out - of - n- system with Repair by extending service to external customers in a Retrial Queue; **Journal of Applied Mathematics & Computing (JAMC),** PP.389-405, Volume 25, Numbers 1-2/September 2007, Springer

A6. A Krishnamoorthy, Viswanath C Narayanan and T G Deepak; Reliability of a k-out-of-n-system with Repair by a Service Station Attending a Queue with Postponed Work; **International Journal of Reliability, Quality and Safety Engineering (IJRQSE)**, Volume 14, No. 4, 2007, pp. 379-398

A7. T G Deepak, V C Joshua and Viswanath C Narayanan; On an Inventory with positive service time having optional processing time; **Bulletin of Kerala Mathematics Association**, Vol. 4, No.2, 2007, December, 75-86

(2008)

A8. Viswanath C Narayanan, T G Deepak, A Krishnamoorthy and B Krishnakumar; On an (s,S) Inventory system with service time vacation to the server and correlated lead time; **Quality Technology and Quantitative Management (QTQM),** PP.129-143, Volume 5, Number 2 June 2008.

A9. T G Deepak, A Krishnamoorthy, Viswanath C Narayanan and K Vineetha; Inventory with service time and transfer of customers and/ inventory; **Annals of Operations Research,** PP.191-213, Volume 160, Number 1 / April, 2008

Impact factor: 0.84 © 2012 Thomson Reuters, 2011 Journal Citation Reports

A10. A Krishnamoorthy, S Babu and Viswanath C Narayanan; MAP/(PH,PH)/C Queue with self-generation of priorities and non-preemptive service; **Stochastic Analysis and Applications**; PP. 1250-1266, Volume 26, Number 6, 2008 Taylor & Francis;

Impact factor: 0.459 © 2012 Thomson Reuters, 2011 Journal Citation Reports

A11. A Krishnamoorthy, K P Jose and Viswanath C Narayanan; Numerical Investigation of a PH/PH/1 Inventory System with Positive Service Time and Shortage; **Neural, Parallel & Scientific Computations;** pp.579-591 Volume 16, Number 4, December 2008, Dynamic Publishers, USA

(2009)

A12. A Krishnamoorthy, S Babu and Viswanath C Narayanan; MAP/(PH, PH)/1 Queue with self-generation of priorities and non-preemptive service; **European Journal of Operational Research (EJOR)**, PP.174-185, Volume 195, Issue 1, May 2009

IMPACT FACTOR 2011: 1.815, © Thomson Reuters Journal Citation Reports 2012

A13. A Krishnamoorthy, B Gopakumar and Viswanath C Narayanan; A Queueing model with Interruption Resumption/Restart and Reneging; **Bulletin of Kerala Mathematics Association**, **Special Issue**. 29-45, October 2009; Guest Editor: S. R. S. Varadhan FRS.

A14. A Krishnamoorthy, Sajeev S Nair and Viswanath C Narayanan; An Inventory Model with Retrial and Orbital Search ; **Bulletin of Kerala Mathematics Association**, **Special Issue**. 47-65, October 2009; Guest Editor: S. R. S. Varadhan FRS.

(2011)

A15. A Krishnamoorthy and Viswanath C Narayanan; Production Inventory with service time and vacation to server; **IMA Journal of Management Mathematics, Oxford Journals,** (2011) 22(1): 33-45, doi:10.1093/imaman/dpp025.

Impact factor: 0.404 © Thomson Reuters Journal Citation Reports

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A16 A Krishnamoorthy, B Gopakumar and Viswanath C Narayanan; A retrial queue with server interruptions, resumption and restart of service; **Oper Res Int J**; 12(2): 133-149 (2012), DOI: 10.1007/s12351-011-0112-8.

A17 A Krishnamoorthy, Sajeev S Nair and Viswanath C Narayanan; An inventory model with server interruptions and retrials; **Oper Res Int J**; 12(2): 151-171 (2012), DOI: 10.1007/s12351-011-0120-8.

(2013)

A18 A Krishnamoorthy and Viswanath C. Narayanan; Stochastic decomposition in production inventory with service time; **European Journal of Operational Research**; Volume 228, Issue 2, 16 July 2013, Pages 358–366 DOI: 10.1016/j.ejor.2013.01.041

IMPACT FACTOR 2011: 1.815 © Thomson Reuters Journal Citation Reports 2012

A19. A N Dudin, A Krishnamoorthy, and Viswanath C Narayanan; Idle time utilization through service to customers in a retrial queue maintaining high system reliability; **Journal of Mathematical Sciences;** Vol. 191, No. 4, June 2013, pp. 506-517. DOI: 1072-3374/13/1914-0506

A20. A Krishnamoorthy, Sajeev S Nair and Viswanath C Narayanan; An Inventory Model with Server Interruptions and Positive Lead Time (Accepted for publication in the **Calcutta Statistical Association Bulletin**)

A21. A Krishnamoorthy, Sajeev S Nair and Viswanath C Narayanan; Production Inventory with Service Time and Interruptions; **International Journal of Systems Science**; doi: 10.1080/00207721.2013.837538

(2014)

A22. V Ramaswami and N C Viswanath; Phase type distributions with finite support; Stochastic Models 30(4): 576-597

(2015)

A23. Narayanan C Viswanath, PG Dileep Kumar, KK Ammad; Statistical Analysis of Quality of Water in Various Water Shed for Kozhikode City, Kerala, India. Aquatic Procedia, 4(2015): 1078-1085

A24. Narayanan C Viswanath, PG Dileep Kumar, KK Ammad and ER Usha Kumari; Ground-water quality and multivariate statistical methods. Environmental Processes, April 2015, 10.1007/s40710-015-0071-9

(2016)

A25. A Krishnamoorthy, M K Sathian and Viswanath C Narayanan; Reliability of a k-out-of-n system with repair by a single server extending service to external customers with preemption. Reliability: Theory & Applications, vol. 11, No.2(41), pp 61-93 Gnedenko Forum (2016)

A26. A Krishnamoorthy, M K Sathian and Viswanath C Narayanan; Reliability of a k-out-of-n system with a single server extending non-preemptive service to external customers-Part I. Reliability: Theory & Applications, vol. 11, No.3(42), pp. 62-75, Gnedenko Forum (2016)

A27. A Krishnamoorthy, M K Sathian and Viswanath C Narayanan; Reliability of a k-out-of-n system with a single server extending non-preemptive service to external customers-Part II. Reliability: Theory & Applications, vol. 11, No.3(42),pp. 76-88, Gnedenko Forum (2016)

A28. Viswanath C Narayanan; Calculating the expected time to eradicate HIV-1 using a Markov Chain. IEEE Transactions on Computational Biology and Bioinformatics; 2016 Oct 20. [Epub ahead of print]. DOI: 10.1109/TCBB.2016.2619342

(B) Research papers published in Major Indian Journals

(2006)

B1. A Krishnamoorthy, M E Islam and Viswanath C Narayanan; Retrial Inventory with Batch Markovian Arrival and Positive Service Time, **Stochastic Modelling and Applications** Vol. 9, Number 2, pp. 38-53, 2006.

(C)Research papers that appeared in Proceedings of Major/International Conferences

(2003)

C1. A Krishnamoorthy and Viswanath C Narayanan; On a Queueing System with Self - Generation of Priorities; **STOCHASTIC   POINT PROCESSES,** Eds. S K Srinivasan and A Vijayakumar; pp. 212-217; Narosa Publishing House. New Delhi, 2003

C2. A Krishnamoorthy, Viswanath C Narayanan and M E Islam; Retrial Production Inventory with MAP and Service Time; Queues, Flows, Systems, Networks. **Proceedings of the International Conference "Modern Mathematical Methods of Analysis and Optimization of Tele - communication Networks", Gomel,** 2003, pp.148-156.

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C3. A Krishnamoorthy, Viswanath C Narayanan and M E Islam; On a Production Inventory with Service Time and Retrial of Customers; **Proceedings of the 11ᵗʰ International Conference on Analytical and Stochastic Modelling Techniques and Analysis; ASMTA 2004** pp. 238-247, SCS-Publishing House- Magdeburg.

C4. A N Dudin, A Krishnamoorthy and Viswanath C Narayanan; Reliability of a k-out-of-n-system through Retrial Queues; **Trans. of XXIV Int. Seminar on Stability Problems for Stochastic Models, Jurmala, Latvia,** September, 10-17, 2004, pp. 232-245.

C5. A Krishnamoorthy, Viswanath C Narayanan and T G Deepak; Reliability of a k-out-of-n-system with Repair by a Service Station Attending a Queue with Postponed Work; **Advanced Reliability Modelling: Proceedings of the 2004 Asian International Workshop (AIWARM 2004),** Hiroshima, Japan, 26-27 August,2004, pp.293-300.

C6. A Krishnamoorthy, Viswanath C Narayanan and T G Deepak; Maximizing of Reliability of a k-out-of-n-system with Repair by a facility attending external customers in a Retrial Queue; **Proceedings of V International Workshop on Retrial Queues,** Ed. Bong Dae Choi, September, 2004, TMRC, Korea University, Seoul, pp.31-38

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C7. A Krishnamoorthy, Viswanath C Narayanan; Retrial Queues with Self-Generation of Priority of Orbital Customers, **Proceedings of the Third National on Conference Mathematical and Computational Models (NCMCM 2005),** pp.289-294

C8. A Krishnamoorthy and Viswanath C Narayanan; Control Policies for Inventory with Service Time; **Proceedings of the Third National Conference on Mathematical and Computational Models (NCMCM 2005),** pp.71-80

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C9. A Krishnamoorthy, Viswanath C Narayanan and Srinivas R Chakravarthy; The impact of priority generations in a multi-priority queueing system - A simulation approach; **Proceedings of the 2009 Winter Simulation Conference**. Editors: M. D. Rossetti, R. R. Hill, B. Johansson, A. Dunkin, and R. G. Ingalls. Winter Simulation Conference 2009 (WSC '09), Austin, Texas, USA, December 13-16, 2009 pp. 1622-1633.

(2010)

C10. A Krishnamoorthy, Sajeev S Nair and Viswanath C Narayanan; An Inventory Model with Server Interruptions; Proceedings of **5th International Conference on Queueing Theory and Network Applications (QTNA 2010)**, pp. 132-139, Beijing, China, 2010. doi:10.1145/1837856.1837876.

(2012)

C11. Viswanath C Narayanan and S Siddharth; Queueing analysis of selective repeat ARQ over a wireless channel; "Queuing analysis of selective repeat ARQ over a wireless channel," **Wireless Information Technology and Systems (ICWITS), 2012 IEEE International Conference on** , vol., no., pp.1,4, 11-16 Nov. 2012 doi: 10.1109/ICWITS.2012.6417670

(2014)

C12. V Ramaswami and N Viswanath; Phase type distributions with finite support; **International Conference on Matrix Analytic Methods in Stochastic Models (MAM 8)**, pp. 103-111, Kerala, India, 8-10, January, 2014.

C13. Dileepkumar P G, Ammad K K,Viswanath C Narayanan and Ushakumary E R**;** Statistical Analysis of Quality of Water using Physico-Chemical Parameters in Various Water Shed for Calicut City, Kerala, India; **2nd National Conference on Emerging Trends in Engineering - NET 2014. 29-30 August 2014. Govt. Engg. College, Kozhikode, Kerala, India**

(2015)

C14. A Krishnamoorthy, A S Manjunath, V M Vishnevsky, V C Narayanan; *ON A CLASS OF QUEUES WITH APPLICATION TO TELECOMMUNICATION;* DISTRIBUTED COMPUTER AND COMMUNICATION NETWORKS (DCCN-2015): CONTROL, COMPUTATION, COMMUNICATIONS, At V.A. Trapeznikov Institute of Control Sciences of RAS

(2016)

A. Krishnamoorthy, Sathian MCOMPUTATION, COMMUNICATIONS (DCCN-2016

C15. A. Krishnamoorthy, Sathian M. K., Viswanath C. Narayanan;Reliability of a k-out-of-n

System with a Repair Facility -- Essential and Inessential Services:Accepted to **19-th International Conference on DISTRIBUTED COMPUTER AND COMMUNICATION NETWORKS: CONTROL, COMPUTATION, COMMUNICATIONS (DCCN-2016).**

(D) Research papers in Open e-print archive (arXiv q-bio)

D1. Viswanath C Narayanan (2009); A new distance between DNA sequences; **arXiv: 0902.1821v1 [q-bio.PE]**.

D2. Viswanath C Narayanan (2010); About the Number of Base Substitutions Between Humans and Common Chimpanzees; **arXiv:1002.4386v1 [q-bio.PE].**

(E) Research papers presented in Major/International Conferences

E1. A Krishnamoorthy and Viswanath C Narayanan; Reliability of a k-out-of-n-system with repair and retrial of secondary customers; **Second National Conference on Mathematical and Computational Models (NCMCM 2003)** Dec 11 & 12, 2003, PSG College of Technology, Coimbatore **(Talk by Viswanath C Narayanan)**

E2. A Krishnamoorthy and Viswanath C Narayanan; On a queueing system with self generation of priorities; **Instructional Workshop on MATRIX ANALYTIC METHODS IN STOCHASTIC MODELLING AND CONFERENCE ON QUEUES, INVENTORY, RELIABILITY, MAINTENANCE AND REPLACEMENT**; February 19-22, 2004, Department of Mathematics, Cochin University of Science and Technology, Kochi **(Talk by Viswanath C Narayanan)**

E3. A Krishnamoorthy, Viswanath C Narayanan; Retrial Queues with Self-Generation of Priority of Orbital Customers, **Third National Conference on Mathematical and Computational Models (NCMCM 2005)** Dec 15-16, 2005, PSG College of Technology, Coimbatore **(Talk by Viswanath C Narayanan)**

E4. Viswanath C Narayanan, T G Deepak, A Krishnamoorthy and B Krishnakumar; An (s,S) Inventory Policy With Service Time, Vacation to Server and Correlated Lead Time ; Presented in **JOINT STASTICAL MEETING AND INTERNATIONAL CONFERENCE ON STATISTICS, PROBABILITY AND RELATED AREAS,** January 2-5,2007,Cochin University of Science and Technology,Cochin,India **(Talk by Viswanath C Narayanan)**

E5. Viswanath C Narayanan; A Markov model based study of viral blip characteristics in HIV patients; **7th IMA International Conference on Quantitative Modelling in the Management of Health and Social Care** Woburn House, London, Monday 25-Wednesday

27 March 2013

(F) Co-authored Research papers presented In Major / International Conferences
(2003)

F1. A Krishnamoorthy and Viswanath C Narayanan; On a Queueing System with Self - Generation of Priorities; **Seminar on Point Processes** - SPP-2003, Anna University, Madras, August 8-9, 2003. **(Talk by A. Krishnamoorthy)**

F2. A Krishnamoorthy, Viswanath C Narayanan and M E Islam; Retrial Production Inventory with MAP and Service Time; **International Conference "Modern Mathematical Methods of Analysis and Optimization of Tele - communication Networks", Gomel, 2003 (Talk by A. Krishnamoorthy)**

(2004)

F3. A Krishnamoorthy, Viswanath C Narayanan and M E Islam; On a Production Inventory with Service Time and Retrial of Customers; **11th International Conference on Analytical and Stochastic Modelling Techniques and Analysis (ASMTA 2004) (Talk by A. Krishnamoorthy)**

F4. A N Dudin, A Krishnamoorthy and Viswanath C Narayanan; Reliability of a k-out-of-n-system through Retrial Queues; **XXIV Int. Seminar on Stability Problems for Stochastic Models, Jurmala, Latvia,** September, 10-17, 2004 **(Talk by A. Krishnamoorthy)**

F5. A Krishnamoorthy, Viswanath C Narayanan and T G Deepak; Reliability of a k-out-of-n-system with Repair by a Service Station Attending a Queue with Postponed Work; **2004 Asian International Workshop on Advanced Reliability Modeling (AIWARM 2004),** Hiroshima, Japan, 26-27 August, 2004 **(Talk by A. Krishnamoorthy)**

F6. A Krishnamoorthy, Viswanath C Narayanan and T G Deepak; Maximizing of Reliability of a k-out-of-n-system with Repair by a facility attending external customers in a Retrial Queue; **V International Workshop on Retrial Queues,** September, 2004, TMRC, Korea University, Seoul **(Talk by A. Krishnamoorthy)**

(2005)

F7. A Gomez Corral, A Krishnamoorthy and Viswanath C Narayanan; MAP/PH/C/C+N Queue with Self-Generation of Priorities; **Fifth International Workshop on Matrix Analytic Methods (MAM5)**, June 2005, University of Pisa, Italy. **(Talk by A. Gomez Corral)**

F8. A Krishnamoorthy and Viswanath C Narayanan; Control Policies for Inventory with Service Time; **Proceedings of the Third National Conference on Mathematical and Computational Models (NCMCM 2005)** Dec 15-16, 2005, PSG College of Technology, Coimbatore **(Talk by A. Krishnamoorthy)**

(2006)

F9. A Krishnamoorthy, Viswanath C Narayanan and B Krishnakumar; Retrial Queues with Self-Generation of Priorities; **Sixth International Workshop on Retrial Queues (6th WRQ)** - July 8-10, 2006, Mira flores de la Sierra, Madrid, Spain **(Talk by A. Krishnamoorthy)**

F10. A Krishnamoorthy and Viswanath C Narayanan; The Impact of Priority Generations in Multi-Priority Queueing System Manned by a Single Server; **Second Madrid Conference on Queueing**

Theory **(MCQT, 2006)** July 3-7, 2006, Complutense University of Madrid, Spain **(Talk by A. Krishnamoorthy)**

(2007)

F11. A Krishnamoorthy, S Babu and Viswanath C Narayanan; MAP/(PH, PH)/1 Queue with self-generation of priorities and non-preemptive service; **JOINT STASTICAL MEETING AND INTERNATIONAL CONFERENCE ON STATISTICS, PROBABILITY AND RELATED AREAS,** January 2-5,2007,Cochin University of Science and Technology, Cochin, India **(Talk by S Babu).**

F12. A Krishnamoorthy, T G Deepak, Viswanath C Narayanan and K Vineetha; Effective Utilization of Idle Time in an (s,S) Inventory with Positive Service Time; **JOINT STASTICAL MEETING AND INTERNATIONAL CONFERENCE ON STATISTICS,PROBABILITY AND RELATED   AREAS,** January 2-5,2007,Cochin University of Science and Technology,Cochin,India **(Talk by K Vineetha)**

F13. T G Deepak, A Krishnamoorthy, Viswanath C Narayanan and K Vineetha; On an (s_i,S_i), i=1,2, Inventory Problem with Positive Service Time and Transfer of Customers; **JOINT STASTICAL MEETING AND INTERNATIONAL CONFERENCE ON STATISTICS, PROBABILITY AND RELATED AREAS,** January 2-5, 2007, Cochin University of Science and Technology,Cochin,India **(Talk by T G Deepak)**

F14. A Krishnamoorthy and Viswanath C Narayanan; Production Inventory with Service Time and Vacation to the Server; **14th APS Informs 2007 Eindhoven,** July 9-11 **(Talk by A. Krishnamoorthy)**

F15. T G Deepak, A Krishnamoorthy, Viswanath C Narayanan and V C Joshua; On an Inventory with positive service time having optional processing time; **Third National Conference on Management Science and Practice (MSP 2007)**, March 22-24, 2008, IIM, Ahmedabad, India. **(Talk by A. Krishnamoorthy)**

(2008)

F16. T G Deepak, A Krishnamoorthy, Viswanath C Narayanan and K Vineetha; Inventory with service time and transfer of customers and/ inventory; **The Sixth International Conference on Matrix-Analytic Methods in Stochastic Models (MAM6)**, Beijing, P.R. China, June 11-14, 2008 **(Talk by T G Deepak)**

F17. A Krishnamoorthy, S Babu and Viswanath C Narayanan; MAP/(PH/PH)/c Queue with self-generation of priorities and non-preemptive service; **The Sixth International Conference on Matrix-Analytic Methods in Stochastic Models (MAM6)**, Beijing, P.R. China, June 11-14, 2008 **(Talk by S Babu)**

F18. A Krishnamoorthy, T G Deepak and Viswanath C Narayanan; Multi-Commodity Inventory problem without/with lead time and positive service time; **The Sixth International Conference on Matrix-Analytic Methods in Stochastic Models (MAM6)**, Beijing, P.R. China, June 11-14, 2008 **(Talk by A. Krishnamoorthy)**

(2009)

F19. T G Deepak, A Krishnamoorthy, Viswanath C Narayanan and K Vineetha; On a two priority inventory system with positive service time and lead time; **International Symposium on Probability Theory and Stochastic Processes in Honour of Professor S.R.S. Varadhan FRS**, February 6-9, 2009, Department of Mathematics, Cochin University of Science and Technology, Kochi **(Talk by T G Deepak)**

F20. B Gopakumar, Viswanath C Narayanan, and A Krishnamoorthy; A queueing model with interruption resume/restart and reneging; **International Symposium on Probability Theory and Stochastic Processes in Honour of Professor S.R.S. Varadhan FRS**, February 6-9, 2009, Department of Mathematics, Cochin University of Science and Technology, Kochi **(Talk by B Gopakumar)**

F21. Sajeev S Nair, Viswanath C Narayanan and A Krishnamoorthy; An inventory queueing model with retrial and orbital search; **International Symposium on Probability Theory and Stochastic Processes in Honour of Professor S.R.S. Varadhan FRS**, February 6-9, 2009, Department of Mathematics, Cochin University of Science and Technology, Kochi **(Talk by Sajeev S Nair)**

F22. A Krishnamoorthy, Viswanath C Narayanan and Srinivas R Chakravarthy; The impact of priority generations in a multi-priority queueing system - A simulation approach; **Winter Simulation Conference 2009** (WSC '09), Austin, Texas, USA, December 13-16, 2009. **(Talk by S R Chakravarthy)**

(2010)

F23. A Krishnamoorthy, B Gopakumar and Viswanath C Narayanan; An M/Em/1 Queue with Protected and Unprotected Phases from Interruption; **5th International Conference on Queueing Theory and Network Applications (QTNA 2010)**, July 24-26, 2010, Beijing, China. **(Talk by B Gopakumar)**

F24. A Krishnamoorthy, Sajeev S Nair and Viswanath C Narayanan; An Inventory Model with Server Interruptions; **5th International Conference on Queueing Theory and Network Applications (QTNA 2010)**, July 24-26, 2010, Beijing, China. **(Talk by Sajeev S Nair)**

F25. A Krishnamoorthy, B Gopakumar and Viswanath C Narayanan; A retrial queue with server interruptions, resume and restart of service; **8th International Workshop on Retrial Queues (8th WRQ)**, July 27-29, 2010, Tsinghua University, Beijing, China. **(Talk by B Gopakumar)**

F26. A Krishnamoorthy, Sajeev S Nair and Viswanath C Narayanan; An Inventory Model with Retrial and Server Interruptions; **8th International Workshop on Retrial Queues (8th WRQ)**, July 27-29, 2010, Tsinghua University, Beijing, China. **(Talk by Sajeev S Nair)**

F27. Viswanath C Narayanan and S Siddharth; Queueing analysis of selective repeat ARQ over a wireless channel; "Queuing analysis of selective repeat ARQ over a wireless channel," **2012 IEEE International Conference on Wireless Information Technology and Systems (ICWITS 2012)** November 11-16, 2012, Grand Wailea Resort Hotel, Maui, Hawaii. **(Talk by S Siddharth)**

F28. V Ramaswami and N Viswanath; Phase type distributions with finite support; **International Conference on Matrix Analytic Methods in Stochastic Models (MAM 8)**, Kerala, India, 8-10, January, 2014. **(Talk by V Ramaswami)**

F29. Dileepkumar P G, Ammad K K,Viswanath C Narayanan and Ushakumary E R**;** Statistical Analysis of Quality of Water using Physico-Chemical Parameters in Various Water Shed for Calicut City, Kerala, India; **2nd National Conference on Emerging Trends in Engineering - NET 2014. 29-30 August 2014. Govt. Engg. College, Kozhikode, Kerala, India (Talk by Dileepkumar P G)**

F30. Narayanan C Viswanath, PG Dileep Kumar, KK Ammad; Statistical Analysis of Quality of Water in Various Water Shed for Kozhikode City, Kerala, India. **INTERNATIONAL CONFERENCE ON WATER RESOURCES, COASTAL AND OCEAN ENGINEERING (ICWRCOE 2015). 12-14 March 2015** NIT Surathkal, India **(Talk by Dileepkumar P G)**