

ÖZGEÇMİŞ

Adı Soyadı : Oruç Raif Önvural
Unvanı : Prof Dr.
Öğrenim Durumu : Ph.D.

Derece	Alan	Üniversite	Yıl
Lisans	Endüstri Mühendisliği	Orta Doğu Teknik Üniversitesi	1981
Y. Lisans	Endüstri Mühendisliği	Syracuse Üniversitesi	1983
Y. Lisans	Computer Studies	NC State University	1985
Doktora	OR/Computer Studies	NC State University	1987

Akademik Unvanlar

Yardımcı Doçentlik Tarihi : 1-3-2009
Doçentlik Tarihi : 15-09-2010
Profesörlük Tarihi : 16-10-2018

Yönetilen Yüksek Lisans ve Doktora Tezleri

Yüksek Lisans Tezleri

323144 ÜLKÜ BURCU GÜREL, 2012, Sınav çizelgeleme probleminin optimizasyonu
612220 MUSTAFA AYDIN, 2019, Blok zincir altyapısı kullanılarak dijital kimlik doğrulama
625092 ANIL ATAV, 2020, İlaçların diğer ilaçlar ile etkileşimlerinin uzman sistem ile belirlenmesi

Doktora Tezleri

Yayınlar

Uluslararası hakemli dergilerde yayınlanan makaleler (SCI,SSCI)

- [1] M. Peyravian, R Onvural , Algorithm for efficient generation of link-state updates in ATM networks, Computer Networks (old Computer Networks and ISDN Systems), Volume 29, Issue 2, January 1997, Pages 237-247
- [2] E. Gelenbe, X. Mang, R. Onvural, Bandwidth allocation and call admission control in high-speed Networks, IEEE Communications Magazine Volume: 35-5, pp 122- 129, MAY 1997
- [3] R O. Onvural, H. Sandick, R. Cherukuri , Structure and use of signaling in B- ISDNs, Computer Networks (old Computer Networks and ISDN Systems), 28-3, 1996, 307-323
- [4] E. Gelenbe, X. Mang, R Onvural, Diffusion Based Statistical Call Admission Control in ATM. Perform. Eval. 27/28(4): 411-436 (1996)
- [5] R O. Onvural, Haldon J. Sandick, Garry M. Kump, Elizabeth A. Hervatic, Phillip F. Chimento Jr.: Enabling ATM Networks. IBM Systems Journal 34(4): 672-693 (1995)
- [6] Theodore E. Tedijanto, R O. Onvural, Dinesh C. Verma, Levent Gün, Roch Guérin: NBBS Path Selection Framework. IBM Systems Journal 34(4): 629 639 (1995)
- [7] H. Ahmadi, P. F. Chimento Jr., R. Guérin, L. Gün, B-C Lin, R O. Onvural, T. Tedijanto: NBBS Traffic Management Overview. IBM Systems Journal 34(4): 604- 628 (1995)

- [8] H. Yamashita, R. O. Onvural: Allocation of Buffer Capacities in Queueing Networks with Arbitrary Topologies, Annals of Operations Research, 48, pp. 313-332, 1994
- [9] I. Nikolaidis, R. O. Onvural: A Bibliography on Performance Issues in ATM Networks. Computer Communications Review, ACM, 1992, 22:8-23
- [10] R O. Onvural: Survey of Closed Queueing Networks with Blocking. ACM Computing Surveys. 22(2): 83-121 (1990)
- [11] R O. Onvural, Harry G. Perros: Approximate Throughput Analysis of Cyclic Queueing Networks with Finite Buffers. IEEE Trans. Software Eng. 15(6): 800-808 (1989)
- [12] R O. Onvural , A note on the product form solutions of multiclass closed queueing networks with blocking, Performance Evaluation, 10-3, December 1989, 247-253
- [13] R O. Onvural, H. G. Perros, Equivalencies between open and closed queueing networks with finite buffers, Performance Evaluation, 9-4, August 1989, 263-269
- [14] R O. Onvural, H. G. Perros, Some equivalencies between closed queueing networks with blocking, Performance Evaluation, Volume 9, Issue 2, April 1989, Pages 111-118
- [15] R O. Onvural, H. G. Perros, On equivalencies of blocking mechanisms in queueing networks with blocking, Operations Research Letters, 5-6, Dec 1986, Pages 293-297

Uluslararası bilimsel toplantılarda sunulan ve bildiri kitabında basılan bildiriler

- [16] G. Marin, T. Tedijanto, R. O. Onvural, Broadband Network Services: Architecture for High Speed Multimedia Networking, Proceedings of the IFIP TC6/WG6.4 Fifth International Conference on High Performance Networking, Pages: 259 – 272, 1994
- [17] H. Yamashita and R. O. Onvural, On the Cell Loss Distribution of Protocol Data Units in ATM Networks, Proceedings of the IFIP TC6 Task Force/WG6.4 Fifth International Conference on Data Communication Systems and their Performance: High Speed Networks and Their Performance , 183 – 197, 1993
- [18] R. O. Onvural, Queueing Networks with Finite Capacities. Performance/SIGMETRICS Tutorials 1993: 411-434
- [19] R. O. Onvural, Ioanis Nikolaidis, Routing in ATM networks, TriComm '92: Proceedings of the conference on High-speed communication Networks, June 1992, Plenum Press
- [20] R. O. Onvural and H.G. Perros, Approximate Analysis of Multiclass Tandem Queueing Networks with Coxian Parameters and Finite Buffers, Performance '90: Proceedings of the 14th IFIP WG 7.3 International Symposium on Computer Performance Modelling, Measurement and Evaluation
- [21] R. O. Onvural and H. Perros, "Equivalencies between open and closed queueing networks with finite capacity," with R. Onvural, Proc. International Seminar on Performance of Distributed and Parallel Systems, Kyoto, Dec. '88. Award paper, appeared in Perf. Eval. Journal
- [22] R. O. Onvural, H. Perros, U. Koerner, On a multi-class queue with class dependent window-flow control, Proc. Modelling Techniques and Tools for Computer Performance Evaluation, Palma de Mallorca, Spain, September 1988, pp 245-264
- [23] T. Altıok, R. O. Onvural, H. Perros, Matrix-geometric solutions of open exponential queueing networks with blocking., Proc. International Workshop on Modelling Techniques and Performance Evaluation, Paris, March 9-11, 1987

Yazılan uluslararası kitaplar veya kitaplarda bölümler

- [24] Asynchronous Transfer Mode Networks: Performance Issues, Artech House; (1995)
- [25] Signaling in ATM Networks (with R. Cherukuri, Artech House (1997)
- [26] Analysis of Queueing Networks with Blocking (with S. Balsamo, V. De Nitto Persone), Kluwer Academic Publishers (2001)
- [27] Internet Routing and Quality of Service (with S. Civanlar, P. Doolan, J. Luciani), SPIE, May 1999
- [28] Internet II: Quality of Service and Future Directions (with S. Civanlar, J. Luciani), SPIE Dec 1999
- [29] Data Communications (with S. Fdida), Kluwer Academic Publishers (1995)
- [30] Asynchronous Transfer Mode Networks: Proceedings of TRICOMM '93, 1993 (with Y. Viniotis), Kluwer Academic / Plenum Publishers (Jun 1993)
- [31] Queueing Networks with Finite Capacity (with I. F. Akyildiz), Elsevier (1992)
- [32] Local Area Network Interconnection, (with A. Nilsson), Kluwer Academic / Plenum Publishers (1993)
- [33] Methodologies for High Speed Networks, Annals of operations research, (with H. G. Perros, G. Pujolle), Baltzer (1994)
- [34] Performance'99 (with E. Gelenbe, Y. Viniotis), Performance Evaluation, Vol. 36-37, Elsevier (1999)
- [35] Queueing Networks with Finite Capacity, Performance Evaluation, Vol. 17-3, Elsevier (1993)
- [36] M. Peyravian, R Onvural, Enabling ATM networks, Computer Communications, Volume 19, Issue 13, November 1996, Pages 1027-1127
- [37] G. Marin and R. O. Onvural, Architectural Framework for ATM Networks: Broadband Network Services, The Communications Handbook, CRC Pressş 2002, J. Gibson (Ed), Electrical Engineering Handbook Volume: 26
- [38] R. O. Onvural, H. G. Perros, G. Pujolle, A bibliography of ATM related papers, Annals of Operations Research, vol 49, 1994, 347-371
- [39] R. O. Onvural, Closed Queueing Networks with Blocking, Chapter in: Stochastic Analysis of Computer and Communications Systems, Takagi (Ed.), North Holland, 1990, 451-498

Projeler

- A Service Platform for the Visually Impaired, 08-2012, Türk Telekom, 132.000 TL/2 sene
- DiyabetUS, KOSGEB ARGE Inovasyon, 9-6-2016 / 9-6-2019; 309,166 TL (18 ay)

İdari Görevler

- Bilgisayar Mühendisliği (İng), Bölüm Başkanı, Maltepe Üniversitesi
- Yüksek Lisans/Doktora Programı Ana Bilim Dalı Başkanı, Maltepe Üniversitesi
- Yazılım Mühendisliği (İng), Bölüm Başkanı, Maltepe Üniversitesi

Ödüller

US Patentleri

- Time based packet scheduling and sorting system (7,230,923)
- Systems, methods and computer program products for distributing connection information between ATM nodes (6,269,079)
- Statistical call admission control (6,222,824)
- Systems methods and computer program products for controlling earliest deadline first scheduling at ATM nodes (6,088,734)
- Selection of routing paths in data communications networks to satisfy multiple requirements (6,034,946)
- Recovering a clock signal in a multimedia network using time stamps (5,995,570)
- Adaptive rate-based congestion control in packet networks (5,936,940)
- ATM network congestion control system using explicit rate cell marking (5,909,443)
- Method and apparatus for multi-cast based video conferencing (5,867,653)
- Method system and article of manufacture for multi-casting audio visual material (5,862,329)
- Synchronization of encryption/decryption keys in a data communication network (5,805,705)
- Use of marker packets for synchronization of encryption/decryption keys in a data communication network (5,706,348)

Diğer Ödüller

- IBM, Blue Chip Award, Research Triangle Park, NC, USA (Nisan'95)
- IBM, Outstanding Technical Achievement, Research Triangle Park, NC, USA (Kasım'94)
- IBM, Author of the Year, Research Triangle Park, NC, USA (1992)
- IBM, Author of the Year, Research Triangle Park, NC, USA (1991)
- Chair, IEEE TC on Computer Communications, USA, 1996, 1997
- ATM Forum Ambassador, USA

Endüstri Tecrübesi

Unvan	Kurum	Yıl
Kurucu, CEO	Oruç Raif Önvural Teletıp TeleSağlık, İzmir Diyabetli hastaların tedavisi için uygulama geliştirme ve pazarlama	2015 -2020
Founder, CEO	Orobridge Inc., Raleigh, NC Designed and developed a thermoelectric chip with SiGe nanowires using CMOS processes	2003-2009
CEO	Litchfield Communications, Connecticut Developed a 2.4 Gbps packet over SONET chip	2002-2003
Vice President	ATM Systems Development, Vitesse Semiconductor Developed and marketed an OC-48 Traffic Management chip	2000-2002

Founder, CEO	Orologic, Inc. (acquired by Vitesse Semiconductor) Designed and developed OC-48 ATM traffic management chips	1997-2000
Vice President	Allied Telesyn International Established the team Designed and developed ATM campus switch	1996-1997
Senior Engineer Manager	Computer Systems Architecture, IBM, RTP, North Carolina Lead IBM's ATM architecture, ATM Forum participation	1990-1996
Performance Analyst	Bell Northern Research ISDN and B-ISDN system modeling	1988-1990
Post Doc	NC State University, Raleigh, NC	1987-1988

Maltepe Üniversitesinde verilen dersler

İşletim Sistemleri, Bilgisayar Ağları, Mobil Programlama, Yazılım Mühendisliği Tasarımı ve Analizi, Yapay zeka uygulamaları, Kesikli Olay Simulasyonu