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Personal Information

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Education Information

Doctorate, Ege Üniversitesi, Uluslararası Bilgisayar Enstitüsü, Bilgi Teknolojileri Anabilim Dalı, Turkey 2005 - 2011

Post Graduate, Ege Üniversitesi, Uluslararası Bilgisayar Enstitüsü, Bilgi Teknolojileri Anabilim Dalı, Turkey 2001 - 2005

Under Graduate, Ege Üniversitesi, Fen Fakültesi, Matematik Bölümü, Turkey 1995 - 1999

Dissertations

Doctorate, Ölçeklenebilir video kodlayıcı/çözümleyici ile çok katmanlı görevdeş ağlarda video akışlandırma, Ege Üniversitesi, Uluslararası Bilgisayar Enstitüsü, Bilgi Teknolojileri Anabilim Dalı, 2011

Post Graduate, İnternet üzerinde hareketli görüntü nakli için veri sıkıştırma ve uyarlama, Ege Üniversitesi, Uluslararası Bilgisayar Enstitüsü, Bilgi Teknolojileri Anabilim Dalı, 2005

Research Areas

Computer Sciences, Computer Networks, Communications and Network Protocols, Engineering and Technology

Academic Titles / Tasks

Assistant Professor, Ege Üniversitesi, Uluslararası Bilgisayar Enstitüsü, Bilgi Teknolojileri Anabilim Dalı, 2012 - Continues

Research Assistant, Ege Üniversitesi, Uluslararası Bilgisayar Enstitüsü, Bilgi Teknolojileri Anabilim Dalı, 2002 - 2012

Advising Theses

SAYIT M., HTTP ÜZERİNDEN DİNAMİK UYARLAMALI AKIŞLANDIRMA İÇİN HIZ ADAPTASYON TEKNİKLERİNİN İNCELENMESİ, Post Graduate, Ö.YAVUZ(Student), 2018

SAYIT M., VoLTE (Voice Over LTE)- LTE'DE SES VERİSİNİN TAŞINMASI VE ÇÖZÜMLER, Post Graduate, Ş.HANIMOĞLU(Student), 2018

SAYIT M., YAZILIM TANIMLI AĞLARDA ALTO PROTOKOLÜNÜN GERÇEKLENMESİ, Post Graduate, S.KORHAN(Student), 2018

SAYIT M., ANDROİD CİHAZLARI İÇİN RAPOR OLUŞTURMA PROGRAMI, Post Graduate, G.NAJİBOVA(Student), 2018

SAYIT M., Cisco onePK Platformunun İncelenmesi ve Yönlendirme Algoritmalarının Testi, Post Graduate, M.UĞUR(Student), 2018

SAYIT M., Integration of ALTO and SDN protocols for peer to peer applications, Doctorate, C.ÇETİNKAYA(Student), 2017

SAYIT M., WebRTC Teknolojisi ile Platformlar Arası Video Konferans Sistemi Gelis,tirilmesi, Post Graduate, Y.ÜNALLAR(Student), 2017

SAYIT M., Yazılım tanımlı ağlar (SDN) teknolojisi ile DASH istemci kalitesinin geliştirilmesi, Post Graduate, Y.ÖZVEREN(Student), 2017

- SAYIT M., Bulut bilişim ve yazılım tanımlı ağ (SDN) teknolojisi tabanlı video akışlandırma sistem mimarisi, Post Graduate, K.HERGÜNER(Student), 2017
- SAYIT M., Openflow ağları üzerinde çalışan çıkarsamaya dayalı uçtan uca çokluortam akışlandırma uygulaması, Post Graduate, T.UZAKGİDER(Student), 2015
- SAYIT M., Görevdeş ağlarda itme-çekme tabanlı video akışlandırma uygulamaları için çıkarsamaya dayalı alternatif yol seçimi, Post Graduate, M.ERDEM(Student), 2014

Articles Published in Journals That Entered SCI, SSCI and AHCI Indexes

- I. **Segment-aware dynamic routing for DASH flows over software-defined networks**
Cetinkaya C., Herguner K., Hellge C., SAYIT M.
INTERNATIONAL JOURNAL OF NETWORK MANAGEMENT, vol.30, no.4, 2020 (Journal Indexed in SCI)
- II. **DASH-QoS: A scalable network layer service differentiation architecture for DASH over SDN**
SAYIT M., Cetinkaya C., Yildiz H. U., Tavli B.
COMPUTER NETWORKS, vol.154, pp.12-25, 2019 (Journal Indexed in SCI)
- III. **A hierarchical P2P clustering framework for video streaming systems**
Demirci S., Yardimci A., Sayit M., Tunali E. T., Bulut H.
COMPUTER STANDARDS & INTERFACES, vol.49, pp.44-58, 2017 (Journal Indexed in SCI)
- IV. **A path selection approach with genetic algorithm for P2P video streaming systems**
KARAYER E., SAYIT M.
MULTIMEDIA TOOLS AND APPLICATIONS, vol.75, no.23, pp.16039-16057, 2016 (Journal Indexed in SCI)
- V. **Adaptive, incentive and scalable dynamic tree overlay for P2P live video streaming**
SAYIT M., Demirci S., Kaymak Y., Tunali E. T.
PEER-TO-PEER NETWORKING AND APPLICATIONS, vol.9, no.6, pp.1074-1088, 2016 (Journal Indexed in SCI)
- VI. **Learning-based approach for layered adaptive video streaming over SDN**
UZAKGİDER T., ÇETİNKAYA C., SAYIT M.
COMPUTER NETWORKS, vol.92, pp.357-368, 2015 (Journal Indexed in SCI)
- VII. **A belief-desire-intention agent architecture for partner selection in peer-to-peer live video streaming applications**
YILDIRIM S., SAYIT M., KARDAŞ G.
EXPERT SYSTEMS, vol.32, no.3, pp.327-343, 2015 (Journal Indexed in SCI)
- VIII. **Optimal backup parent pools for resilient multicast trees on peer-to-peer networks**
Tunali E. T., SAYIT M.
TURKISH JOURNAL OF ELECTRICAL ENGINEERING AND COMPUTER SCIENCES, vol.23, no.5, pp.1338-1356, 2015 (Journal Indexed in SCI)
- IX. **Software agents for peer-to-peer video streaming**
TEKET K. D., SAYIT M., KARDAŞ G.
IET SOFTWARE, vol.8, no.4, pp.184-192, 2014 (Journal Indexed in SCI)
- X. **Resilient peer-to-peer streaming of scalable video over hierarchical multicast trees with backup parent pools**
Fesci-Sayit M., Tunali E. T., Tekalp A. M.
SIGNAL PROCESSING-IMAGE COMMUNICATION, vol.27, no.2, pp.113-125, 2012 (Journal Indexed in SCI)

Articles Published in Other Journals

- I. **Multicast Tree Construction for Peer to Peer Video Streaming Systems**
SAYIT M., TUNALI E. T.
International Journal of Natural and Engineering Sciences, vol.5, pp.61-64, 2011 (Refereed Journals of Other Institutions)

Refereed Congress / Symposium Publications in Proceedings

- I. **Multimedia Service Management with Virtualized Cache Migration**
Kalan R. S. , SAYIT M., Clayman S.
23rd Conference on Innovation in Clouds, Internet and Networks and Workshops (ICIN), Paris, France, 24 - 27 February 2020, pp.171-177
- II. **Improving the QoE of DASH over SDN: A MCDM Method with an Intelligent Approach**
Ozcan S. G. , SAYIT M.
22nd International Conference on Innovation in Clouds, Internet and Networks and Workshops (ICIN), Paris, France, 18 - 21 February 2019, pp.100-105
- III. **Numerical evaluation of MPTCP schedulers in terms of throughput and reliability**
SAYIT M., Karayer E., Phung C., Secci S., Boumerdassi S.
11th International Workshop on Resilient Networks Design and Modeling (RNDM), Nicosia, CYPRUS, 14 - 16 October 2019
- IV. **Virtualized Cache Placement in an SDN/NFV Assisted SAND Architecture**
Clayman S., Kalan R. S. , SAYIT M.
IEEE International Black Sea Conference on Communications and Networking (BlackSeaCom), Batumi, Georgia, 4 - 07 June 2018, pp.51-55
- V. **Implementation of SAND Architecture Using SDN**
Kalan R. S. , SAYIT M., Begen A. C.
IEEE Conference on Network Function Virtualization (NFV) and Software -Defined Networking (SDN), Verona, Italy, 27 - 29 November 2018
- VI. **SDN-CPS: Selecting Codec, Path and Server for Video Streaming over SDN**
Shokri Kalan R., Bikas S., Kheibari B., SAYIT M.
26th IEEE Signal Processing and Communications Applications Conference (SIU), İzmir, Turkey, 2 - 05 May 2018
- VII. **Design of A Layer-based Video Streaming System over Software-Defined Networks**
SHOKRI KALAN R., ÇETİNKAYA C., SAYIT M.
8th International Conference on the Network of the Future (NoF 17), 22 - 24 November 2017
- VIII. **ALTO-assisted CDN-based Video Streaming over SDN**
Cetinkaya C., SAYIT M.
25th Signal Processing and Communications Applications Conference (SIU), Antalya, Turkey, 15 - 18 May 2017
- IX. **Evaluation of MPTCP Congestion Control for DASH**
BIKAS S., ÇETİNKAYA C., SAYIT M.
IEEE 7th International Conference on Consumer Electronics - Berlin (ICCE-Berlin), Berlin, Germany, 3 - 06 September 2017, pp.279-283
- X. **Rate Adaptation Algorithm with Backward Quality Increasing Property for SVC-DASH**
ÖZCAN S. G. , KIVILCIM T., ÇETİNKAYA C., SAYIT M.
IEEE 7th International Conference on Consumer Electronics - Berlin (ICCE-Berlin), Berlin, Germany, 3 - 06 September 2017, pp.24-28
- XI. **Video on Demand System Architecture with ALTO SDN Integration**
ÇETİNKAYA C., SAYIT M.
International Blacksea Conference on Communications and Networking, 6 - 09 June 2016
- XII. **Server Selection for Video Streaming Applications over Software Defined Networks**
KAYSUDU E., ÇETİNKAYA C., HERGÜNER K., SAYIT M.
24th Signal Processing and Communication Application Conference (SIU), Zonguldak, Turkey, 16 - 19 May 2016, pp.1965-1968
- XIII. **Performance evaluation of DASH rate adaptation algorithms**
ÖZVEREN Y., ÇETİNKAYA C., SAYIT M.
2015 23rd Signal Processing and Communications Applications Conference (SIU), Malatya, Turkey, Turkey, 16 - 19 May 2015, pp.1721-1724
- XIV. **Route optimization for DASH over Software Defined Networks**

ÇETİNKAYA C., ÖZVEREN Y., SAYIT M.

2015 23rd Signal Processing and Communications Applications Conference (SIU), Malatya, Turkey, Turkey, 16 - 19 May 2015, pp.2454-2457

XV. An SDN-assisted System Design for Improving Performance of SVC-DASH

ÇETİNKAYA C., ÖZVEREN Y., SAYIT M.

Federated Conference on Computer Science and Information Systems (FedCSIS), Lodz, Poland, 13 - 16 September 2015, vol.5, pp.819-826

XVI. SDN for Segment based Flow Routing of DASH

ÇETİNKAYA C., KARAYER E., SAYIT M., HELLGE C.

4th IEEE International Conference on Consumer Electronics Berlin (ICCE-Berlin), Berlin, Germany, 7 - 10 September 2014, pp.74-77

XVII. Parameter analysis for a push pull based P2P live video streaming application

KAYMAK Y., TEKET K. D. , SAYIT M.

2013 21st Signal Processing and Communications Applications Conference (SIU), Haspolat, Cyprus (Kkctc), 24 - 26 April 2013, pp.1-4

XVIII. Engineering a Multi-agent System for Peer-to-Peer Video Streaming

TEKET K. D. , KAYMAK Y., SAYIT M., KARDAŞ G.

IEEE International Symposium on INnovations in Intelligent SysTems and Applications (INISTA), Bulgaria, 19 - 21 June 2013

XIX. A SCORE-BASED PACKET RETRANSMISSION APPROACH FOR PUSH-PULL P2P STREAMING SYSTEMS

SAYIT M., KARAYER E., TEKET K. D. , KAYMAK Y., ÇETİNKAYA C., Demirci S., KARDAŞ G.

Federated Conference on Computer Science and Information Systems (FedCSIS), Krakow, Poland, 8 - 11 September 2013, pp.627-635

XX. Reinforcement learning for peer to peer video streaming applications

SAYIT M., SÖNMEZ O.

2012 20th Signal Processing and Communications Applications Conference (SIU), Mugla, Turkey, Turkey, 18 - 20 April 2012, pp.1-4

XXI. An Efficient JSD Based Search on Interest Based Hierarchical Clustering of Overlay Networks

Bulut H., Yardimci A., Demirci S., Kaymak Y., Sayit M., Tunali E. T.

The Second International Conference On Advances In P2P Systems (AP2PS 2010), Florence, Italy, 25 - 30 October 2010, pp.63-69

XXII. BANDWIDTH-AWARE MULTIPLE MULTICAST TREE FORMATION FOR P2P SCALABLE VIDEO STREAMING USING HIERARCHICAL CLUSTERS

Fesci-Sayit M., Tunali E. T. , Tekalp A. M.

16th IEEE International Conference on Image Processing, Cairo, Egypt, 7 - 10 November 2009, pp.945-946

XXIII. Genişletilmiş Tomasulo Algoritması ve Kuraldışı Durumların İşlenmesi

SAYIT M., BİLGİLİ A.

Akademik Bilişim 2007, Turkey, 31 January - 02 February 2007

Supported Projects

SAYIT M., TUBITAK Project, The Integration of ALTO protocol and SDN (Software Defined Networking, 2015 - 2017

SAYIT M., Project Supported by Higher Education Institutions, YAZILIM TANIMLI AĞ(SDN) TEKNOLOJİSİ İLE BULUT BİLİŞİM VERİ MERKEZİ SERVİSLERİNİN GELİŞTİRİLMESİ, 2014 - 2017

SAYIT M., TUBITAK Project, Yazılım Tanımlı Ağlar SDN üzerinde Dinamik Uyarlamalı HTTP Video Akışlandırma, 2014 - 2017

SAYIT M., Project Supported by Higher Education Institutions, DAĞITIK BİR AĞ İZLEME ALGORİTMASININ GELİŞTİRİLMESİ, 2012 - 2014

SAYIT M., TUBITAK Project, Development of an Agent based Alternative Path Selection Method for Peer-to-Peer Video Streaming Application, 2011 - 2013

Citations

Total Citations (WOS):85

h-index (WOS):6

Awards

SAYIT M., Distinguished paper, IEEE ICCE-Berlin organizasyon komitesi, September 2017

SAYIT M., Best Paper, IEEE ICCE-Berlin organizasyon komitesi, September 2014