

Dr. ENGIN ZEYDAN

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Saray Mah. Üntel Sokak. No:5, Ümraniye, İstanbul
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EDUCATION: [Stevens Institute of Technology](#), Hoboken, NJ

PhD in Electrical and Computer Engineering, December 2010

Area: Wireless Communications & Networking, Coursework partly completed at [West Virginia University](#)

Dissertation: Efficient Data Communication Protocols for Wireless Networks

[Middle East Technical University](#), Ankara, Turkey

M.Sc. in Electrical and Electronics Engineering, August 2006

Telecommunications

Thesis: Channel Phase and Data Estimation in slowly fading frequency non-selective Channels

B.Sc. in Electrical and Electronics Engineering, June 2004

HONORS: **Best Paper Award** at Network of Future Conference 2017 (NoF'17) for paper "*Prediction of active UE number with Bayesian neural networks for self-organizing LTE networks*".

IEEE Wireless Communication Professional Certificate (WCP), IEEE WCET®, Valid for June 2017-May 2020

Celtic Excellence Award (Silver), by Celtic Office in MEVICO project, 2012

Exemplary Reviewer for IEEE Communications Letters Award, 2011 (received by fewer than 3% of all reviewers)

TEACHING [Özyeğin University](#), İstanbul, Turkey

EXPERIENCE: **Part-Time Lecturer: Department of Electrical and Electronics Engineering 02/ 2015 – present**

- Instructing undergraduate/graduate students in "*Wireless Networks (Spring 2015, Spring 2017)*", "*Recent Advances in Networking (Fall 2015)*", "*Wireless Communications (Spring 2016)*", "*Introduction to Digital Communications (Fall 2016)*" and "*Wireless Communications Engineering Technologies (Spring 2018)*" courses

Stevens Institute of Technology, Hoboken, NJ

Teaching Assistant: Department of Electrical and Computer Engineering 08/ 2010 – 12/2010

- Instructed undergraduate students in “Introduction to Programming (C++)” course

Stevens Institute of Technology, Hoboken, NJ

Teaching Assistant: Department of Electrical and Computer Engineering 08/ 2006 – 12/2006

- Designed the website for web campus courses analytic methods, linear systems and probability and stochastic processes

RESEARCH

Stevens Institute of Technology, Hoboken, NJ

EXPERIENCE:

Postdoctoral Researcher: Department of Electrical and Computer Engineering, 02/ 2011 – 07/2011

- Research on Cognitive Radio implementation.
- Worked with Linux kernel drivers for Wireless LAN devices with Atheros chipsets in Mad Wi-Fi project.

West Virginia University, Morgantown, WV

Research Assistant: Lane Department of Computer Science and Electrical Engineering 01/ 2009 – 06/2010

- Designed cooperative and non-cooperative beamforming algorithms for multi-user MIMO ad-hoc networks.
- Proposed a new throughput maximizing routing for correlated data in wireless sensor networks

Stevens Institute of Technology, Hoboken, NJ

Department of Electrical and Computer Engineering: Research Assistant 01/ 2007 – 12/2008

- Used game theoretic approaches for designing an energy efficient routing wireless sensor networks

INDUSTRY

Türk Telekomunikasyon A.S., İstanbul, Turkey

EXPERIENCE:

Senior Research & Development Engineer, Türk Telekom Labs Department, 01/2016 - present

- Researching in new telecommunications technologies and executing R&D projects.
- Scientific contact for H2020 Clear5G, ITEA PAPUD, BUDDY and Celtic-Plus PULPA, ENGAGE Projects
- **EU EUREKA- Platform for Indoor Mobile based User Localization to improve user shopping and touristic experience (PULPA) (March 2017 - present)**
Position: Technical Project Leader at Türk Telekom.

Topic: A Platform for improving mobile user experience using cloud and IoT connected smartphones with contextualization and big data analysis. Taking into account the user experience and user provided data and including high precision indoor localisation and guidance in heterogeneous radio environment.

- **EU H2020- Converged wireless access for reliable 5G MTC for factories of the future (Clear5G) (September 2017 - present)**

Position: Technical Project Leader at Türk Telekom.

Topic: Clear5G's objective is to design, develop, validate, and demonstrate an integrated convergent wireless network for Machine Type and Mission Critical Communication (MTC/MCC) services for Factories of the Future (FoF). Clear5G will deliver technical solutions addressing the challenges of massive deployment of connected devices, security, ultra-low latency and ultra-high reliability in FoF applications, like remote maintenance and closed loop control systems. The requirements of these complex scenarios will be met through the convergence of different wireless technologies, enabled by protocol and architecture enhancements proposed by Clear5G.

- **EU ITEA - Profiling and Analysis Platform Using Deep Learning (PAPUD) (January 2018 - present)**

Position: Turkish Consortium Leader and Technical Project Leader at Türk Telekom.

Topic: Businesses currently have to deal with a data set that is more than they can handle. Today's necessity is not the usage of data analytics, it is the utilisation of combined technologies in which data analytics are executed to make sense out of the data. The scope of the project is to build a universal model for data analytics using Deep Learning on a proposed set of technologies including HPDA environment that fit best to the data provided.

- **EUREKA- CELTIC PLUS Privacy-preserving data mining processing and sharing (ENGAGE) (September 2018 -September 2021—36 Months)**

Position: International Project Coordinator and Technical Project Leader at Türk Telekom

Topic: ENGAGE project will design and develop a "privacy preserving data mining, processing and sharing" framework for secure and privacy preserving business and data analytics. By integrating the innovative privacy preserving techniques into the existing network and data analytic platform solutions, ENGAGE platform will provide solutions for the challenges of today's businesses in terms of data privacy, data processing and data protection. ENGAGE project aims to develop new techniques, tools and methods to analyze sensitive data while preserving the privacy of the users.

AVEA, İstanbul, Turkey

R&D Engineer, AveaLabs Department, AVEA İletişim Hizmetleri A.S.

08/2011-01/2016

- Researching in new telecommunications technologies and executing R&D projects internally and with AVEA R&D Partners.
- Taking part in R&D projects in analysis, pre-study, prototyping activities.
- Preparing and publishing technical reports in selected topics.
- Participating in joint University research project and leading these projects.
- Doing technical research and following trends in mobile communications and internet.
- Identifying patentable content from project outputs, preparing disclosures for patent applications.
- Analysing solutions and leading technical collaborations of AveaLabs project with AVEA's network department (jointly with AVEA's Core Network, Transport Network and Radio Access Network departments)
- Initiating and coordinating projects between universities, research centers and industry under "University – Industry Collaboration" agreements

- Organization of scientific conferences
- Scientific contact for EUREKA-CELTIC MEVICO, SHARING and SIGMONA Projects
- **EU EUREKA- CELTIC Mobile Networks Evolution for Individual Communications Experience (MEVICO) (Oct. 2010 - Dec. 2012—26 months)**
Position: Project Technical Leader at AVEA since August 2011.

Topic: The project is to follow an end-to-end system approach on evolution of the Evolved Packet Core (EPC) network of the 3GPP. The focus will be on the connectivity layers of the system, for example on the part of the future LTE network which provides the efficient packet transport and mobility support for the applications & end-user services accessed over the LTE and LTE-Advanced radio systems.

Note: **Celtic Project MEVICO** has been awarded for the **Celtic Excellence Award Silver** by Celtic Office.

- **EUREKA- CELTIC SDN Concept in Generalized Mobile Network Architectures (SIGMONA) (April 2013 - November 2016—32 Months)**
Position: Project Technical Leader at AVEA

Topic: The project will apply the latest networking and computing technologies and architectures onto the LTE/EPC mobile network. The project aims at evaluation; specification and validation of a Software Defined Mobile Network concept designed onto the software defined networking (SDN), network virtualization and cloud computing principles.

Note: **Celtic Project SIGMONA** has been awarded for the **Celtic-Plus Excellent Award in Networking** by Celtic Office

- **FP7 EU STREP project, Mobile Opportunistic Traffic Offloading (MOTO) (Oct. 2010 - Dec. 2012—36 months)**
Position: Project Technical Leader at AVEA

Topic: Going far beyond present infrastructure based offloading approaches; MOTO explores an additional layer of disruptive offloading protocols that make use of direct terminal-to-terminal Wi-Fi communications. Thanks to MOTO offloading solutions, the operators will decide how much bandwidth to allocate for supporting crowds of users sharing data hungry services in a flexible and efficient way, and will be able to handle peaks of traffic without overprovisioning the infrastructure and without blocking the service to its users.

- **EUREKA-CELTIC-PLUS Self-Organized Heterogeneous Advanced Radio Networks Generation (SHARING) (Jan. 2013 - February 2016—30 months)**
Position: Project Technical Leader at AVEA

Topic: The project is on developing technologies related to cost/power efficient small cell networks addressing heterogeneity and HetNets. Offloading the traffic, provisioning efficient backhauling for Multi-RAT HetNets and Self-Organizing Networks are some of the research objectives that will be investigated.

- **FP7 EU STREP project, Connectivity management for eneRgy Optimised Wireless Dense networks (CROWD) (April 2014 - June 2015—18 months)**
Position: Project Technical Leader at AVEA

Topic: CROWD promotes a paradigm shift in the future Internet architecture towards global network cooperation, dynamic network functionality configuration and fine, on demand,

capacity tuning. The project targets very dense heterogeneous wireless access networks and integrated wireless-wired backhaul networks. In this framework, CROWD pursues four key goals: i) bringing density-proportional capacity where it is needed, ii) optimizing MAC mechanisms operating in very dense deployments by explicitly accounting for density as a resource rather than as an impediment, iii) enabling traffic- proportional energy consumption, and iv) guaranteeing mobile user's quality of experience by designing smarter connectivity management solutions.

SKILLS:

- **High-level languages:** Java, Python
- **Algorithm development environments:** Matlab/Simulink

TAKEN COURSES:

- "Cloudera Administrator Training for Apache Hadoop" from Dilişim, March 2016.
- "Cloudera Data Analyst Training: Using Pig, Hive, and Impala with Hadoop", from Dilişim March 2016.
- "Cloudera Developer Training for Apache Hadoop", from Dilişim, April 2016.
- "Cloudera Developer Training for Apache Spark", from Dilişim, May 2016.
- "Requirements Definition & Change Request Management" course from BA-WORKS, February 2012

SPECIALTIES:

- Wireless networks and communications,
- Game theory in wireless networks,
- Big Data for Networking (Hadoop, Learning, Visualization)
- Mobile traffic data mining and analysis
- User mobility characterization in wireless access
- Radio access networks, mobile packet core network
- Software-Defined Networks (SDN), OpenFlow, Network Virtualization

PROFESSIONEL **Member** of the Institute of Electrical and Electronics Engineers (IEEE) (S'06, M'11)

ACTIVITIES: **Member** of IEEE Communication Society (COMSOC), 2007-present

Member of IEEE Computer Society, 2012-present

Conference Committees:

International Workshop on Practical Issues and Applications in Next Generation Wireless

Networks (PINGEN'12) in conjunction with ACM MOBICOM 2012 (Proceedings Chair and TPC

Member)

IEEE ICC 2014, 2015, 2017, 2018 (TPC Member Wireless Communication Symposium)

IEEE GLOBECOM 2014 (HetNets), 2015 (Big Data Networking), 2016 (Big data and Wireless Networks) (TPC Member)

IEEE WCNC 2014, 2015, 216 (TPC Member, Workshop on D2D and Public Safety Communications)

IEEE PIMRC 2014-2018 (TPC Member)

IEEE SIU 2012 - 2018 Conference, Turkey (TPC Member)

IEEE WiMob 2016-2018 (TPC Member)

IEEE MobiApps 2014 (TPC Member)

IEEE PRIP-2014 (TPC Member)

IEEE RETCOMP-2015 (TPC Member)

Journal reviews

- IEEE Transactions on Information Theory: 2009
- IEEE Transactions on Vehicular Technology: 2017 (3), 2016 (1), 2013 (1), 2012 (5), 2011 (4), 2010 (4), 2009, 2008, 2006
- IEEE Communication Letters: 2018 (3), 2017 (2), 2016 (2), 2015 (4), 2014 (1), 2012 (2), 2011(4), 2010, 2009, 2008 (2), 2007 (3)
- IEEE Transactions on Communications: 2018 (2), 2017 (3), 2016 (2), 2011(3)
- IEEE Transactions on Wireless Communications: 2017 (2), 2011 (3)
- IEEE Journal on Selected Topics Areas in Communications (JSAC) - Special Issue on Spectrum and Energy Efficient Design of Wireless Communication Networks Communications, Special issue on Caching, Special issue on Artificial Intelligence and Machine Learning for Networking and Communications: : 2012, 2018 (2)
- International Journal of Computer Systems Science and Engineering: 2013 (2)
- IET Wireless Sensor Systems: 2013
- International Journal of Computing and Digital Systems: 2014
- EURASIP Journal on Wireless Communications and Networking: 2015, 2014
- IEEE Communications Magazine: 2018, 2016, 2015, 2014
- Journal of Communications and Networks: 2015 (2)
- Int. Journal of Computing and Digital Systems: 2016
- Springer Wireless Networks: 2018 (5), 2017 (4), 2016 (4)
- Turkish Journal of Electrical Engineering & Computer Sciences: 2017
- Elsevier Computer Networks: 2018
- MDPI Sustainability: 2018 (3)
- MDPI Sensors: 2018
- IEEE Wireless Communications Letters: 2018
- IET Electronics Letters: 2018
- Elsevier Journal of King Saud University - Computer and Information Sciences: 2018
- IEEE Transactions on Network and Service Management: 2018 (2)
- IEEE Access: 2018 (2)
- Hindawi Journal of Sensors: 2018
- Elsevier DSP: 2018
- IEEE Letters of the Computer Society: 2018
- IEEE Transactions on Mobile Computing: 2018

Conference reviews: ICT, GLOBECOM, WCNC, ICC, VTC Fall/Spring, European Wireless, PIMRC, TSP, WiMob, etc.

Tutorials, Invited talks & Posters:

- **E. Zeydan**, "Innovation Projects in Mobile Operators", *Koç University, College of Engineering Seminar*, 29 Nov. 2017, Istanbul, Turkey.
- **E. Zeydan**, "Big Data for Networking: Objectives, Challenges and Applications", Tutorial Presentation in *IEEE/IFIP Network Operations and Management Symposium*, 29 April 2016, Istanbul, Turkey.

- **E. Zeydan**, “Innovation in mobile operators: Path from research ideas to product in a competitive networking world”, in *Huawei Paris Research Center*, November 2015, Paris, France.
- **E. Zeydan**, “Towards a More Secure Network Architecture in LTE”, *Advanced Intrusion Detection and Prevention Workshop (AIDP 2015)*, Boğaziçi University, Istanbul, Turkey, June 2015
- A. Morelli, R. Gupta, M. Draxler, H. Karl, V. Mancuso, A. De La Oliva, E. Bizouarn, **E. Zeydan**, "The CROWD framework for tackling challenges of dense small cell deployments using Software Defined Networking (SDN)" in *proc. of Globecom 2014 poster in Industry program*, December 2014, Texas, USA
- **E. Zeydan**, “SDN Concept in EPS Network Architecture”, *Institute of Communications Technology, Leibniz Universität Hannover*, Germany, January 2014

PUBLICATIONS:

Book Chapter:

- **E. Zeydan**, E. Baştuğ; M. Bennis; M. Debbah, “A Proactive and Big data-enabled Caching Analysis Perspective”, Book Chapter on Wireless Edge Caching in *Cambridge University Press*, July 2018.

Journals:

- 1) O. Narmanlioglu, **E. Zeydan**, “Mobility-Aware Cell Clustering Mechanism for Self-Organizing Networks” accepted to *IEEE Access Journal*, October 2018.
- 2) Y. Turk, **E. Zeydan**, “An Experimental Measurement Analysis of Congestion over Converged Fixed and Mobile Networks”, accepted to *ACM/Springer Wireless Networks Journal (WINET)*, October 2018.
- 3) A. Yildirim, **E. Zeydan**, I. O. Yigit, “A Statistical Comparative Performance Analysis of Mobile Network Operators”, accepted to *ACM/Springer Wireless Networks Journal (WINET)*, September 2018.
- 4) A. S. Tan and **E. Zeydan**, “Performance Maximization of Network Assisted Mobile Data Offloading with Opportunistic Device-to-Device Communications”, accepted to *Elsevier Computer Networks*, May 2018.
- 5) O. Narmanlioglu, **E. Zeydan** and S. Arslan, “Service-Aware Multi-Resource Allocation in Software-Defined Next Generation Cellular Networks”, in *IEEE Access Journal -- Special Section on Fairness in Futuristic Wireless Networks: Applications, Implementation, Issues, and Opportunities*, vol.6, pp. 20348-20363, March 2018
<http://doi:10.1109/ACCESS.2018.2818751>.
- 6) O. Narmanlioglu and **E. Zeydan**, “New Era in Shared Cellular Networks: Moving into Open and Virtualized Platform”, in *Wiley International Journal of Network Management (IJNM), Special Issue on Management of SDN/NFV based systems*, June 2017.
- 7) S. E. Solmaz, B. Gedik, H. Ferhatosmanoglu, S. Sozuer, **E. Zeydan**, C. Etemoglu, “ALACA: A Platform for Dynamic Alarm Collection and Alert Notification in Network Management Systems” in *Wiley International Journal of Network Management (IJNM) Special Issue on Big Data Analytics for Network and Service Management*; 2017, e1980.
<http://doi.org/10.1002/nem.1980>
- 8) G. Çelik, H. Çelebi, H. P. Partal, **E. Zeydan**, İ. A. Karatepe, A. S. Er, “An experimental study of indoor RSS-based RF fingerprinting localization using GSM and Wi-Fi signals”, in *Turkish Journal of Electrical Engineering & Computer Sciences*, 25.4 (2017): 2727-2736.
- 9) **E. Zeydan**, A. S. Tan, Y. Mester and H. Buyruk, “Quality-Aware Wi-Fi Offload: Analysis, Design and Integration Perspectives”, in *ACM/Springer Wireless Networks Journal (WINET)*, pp. 1–17, November 2016, <http://doi:10.1007/s11276-016-1397-6>
- 10) O. Narmanlioglu and **E. Zeydan** “Software-Defined Networking based Network Virtualization for Mobile Operators” in *Computers & Electrical Engineering Journal (Elsevier) Special Issue on*

Software-Defined Control for Next Generation Wireless Systems, 57 (2017): 134-146, doi.org/10.1016/j.compeleceng.2016.09.011

- 11) **E. Zeydan**, E. Baştuğ, M. Bennis, M. Abdel Kader, A. Karatepe, A. Salih Er, and M. Debbah, "Big Data Caching for Networking: Moving from Cloud to Edge" in *IEEE Communications Magazine, Special Issue on Communications, Caching, and Computing for Content-Centric Mobile Networks*, vol. 54, no. 9, pp. 36 - 42, September 2016.
- 12) M. Isabel Sanchez, **E. Zeydan**, A. de la Oliva, A. S. Tan, U. Yabas, C. J. Bernardos, "Mobility Management: Deployment and Adaptability Aspects Through Mobile Data Traffic Analysis", in *Elsevier Computer Communications, Special issue on Mobile Traffic Analysis*, 95 (2016): 3-14.
- 13) E. Baştuğ, M. Bennis, **E. Zeydan**, M. Abdel Kader, A. Karatepe, A. Salih Er, and M. Debbah, "Big Data Meets Telcos: A Proactive Caching Perspective", in *IEEE/KICS Journal of Communications and Networks, Special Issue on Big Data Networking-Challenges and Applications*, vol. 17, no. 6, pp. 549-557, Dec. 2015. <http://doi:10.1109/JCN.2015.000102>
- 14) **E. Zeydan**, D. Kivanc, U. Tureli and C. Comaniciu, "Joint Iterative Beamforming and Power Adaptation for MIMO Ad Hoc Networks" *EURASIP Journal on Wireless Communications and Networking, Special issue on Recent Advances in Multiuser MIMO systems.*, 2011:79, doi: 10.1186/1687-1499-2011-79, <http://jwcn.eurasipjournals.com/content/2011/1/79>.
- 15) **E. Zeydan**, D. Kivanc, C. Comaniciu and U. Tureli, "Energy-Efficient Routing for Correlated Data in Wireless Sensor Networks" *Elsevier Ad-Hoc Networks Journal*, 2012, <http://dx.doi.org/10.1016/j.bbr.2011.03.031>.

Conferences (International):

- 1) Y. Turk, **E. Zeydan** and A. Daglar, "A New Method for Measuring Quality of Experience on Mobile OTT Streaming" in Proc. of *14th International Conference on Wireless and Mobile Computing, Networking and Communications (WiMob 2018)*, 15-17 October 2018, Limassol, Cyprus.
- 2) F. Kalyoncu, **E. Zeydan**, I. O. Yigit, and A. Yildirim, "A Customer Complaint Analysis Tool for Mobile Network Operators", in Proc. of *Demonstrations Papers track of 2018 IEEE/ACM International Conference on Advances in Social Networks Analysis and Mining (ASONAM 2018)*, 28-31 August 2018, Barcelona, Spain.
- 3) N. Albayrak, and **E. Zeydan**, "An Intelligent Data Visualization Service Platform for Mobile Network Operators" in Proc. of *Demonstrations Papers track of Network Traffic Measurement and Analysis Conference (TMA 2018)*, June 2018, Vienna, Austria.
- 4) R. Yeniterzi, K. Durak, B. Sahin, I. O. Yigit and **E. Zeydan**, "Initial Explorations for Patient Routing", in Proc. of *Social Media and Health Workshop at 12th International AAAI Conference on Web and Social Media (ICWSM'18)*, 25-28 June 2018, Stanford, California, USA.
- 5) C. Eryonucu, E. Ayday and **E. Zeydan**, "A Demonstration of Privacy-Preserving Aggregate Queries for Optimal Location Selection" in Proc. of *Demonstrations Papers track of IEEE WoWMoM 2018*, 12-15 June 2018, Chania, Greece.
- 6) A. S. Tan and **E. Zeydan**, "The Impact of D2D Connections on Network-Assisted Mobile Data Offloading", *The International Symposium on Networks, Computers and Communications (ISNCC)*, 19-21 June 2018, Rome, Italy.
- 7) F. Kalyoncu, **E. Zeydan**, A. Yildirim and I. O. Yiğit, "An Experimental Study of Factor Analysis over Cellular Network Data" in Proc. of *IEEE 87th Vehicular Technology Conference (VTC 2018-Spring)*, 03-06 June 2018, Porto, Portugal.
- 8) F. Kalyoncu, **E. Zeydan** and I. O. Yiğit, "A Data Analysis Methodology for Obtaining Network Slices Towards 5G Cellular Networks" in Proc. of *IEEE 87th Vehicular Technology Conference (VTC 2018-Spring)*, 03-06 June 2018, Porto, Portugal.
- 9) Y. Türk, **E. Zeydan** and C. A. Akbulut, "An Experimental Analysis of Differentiated Quality of Service Support for LTE Users", in Proc. of *2018 5th International Conference on Electrical and Electronics Engineering (ICEEE 2018)*, 03-05 May 2018, Istanbul, Turkey.
- 10) **E. Zeydan** and O. Dedeoğlu, "Site Priority Evaluations in Cellular Networks Using Data Analysis", in Proc. of *2018 5th International Conference on Electrical and Electronics Engineering (ICEEE 2018)*, 03-05 May 2018, Istanbul, Turkey.

- 11) M. A. Jamshed, O. Amjad and **E. Zeydan**, "Multicore energy efficient scheduling with energy harvesting for wireless multimedia sensor networks" in *Proc. of 20th International Multi-topic Conference (INMIC)*, 24-26 November 2017, Lahore, Pakistan.
- 12) I. O. Yiğit, G. Ayhan, **E. Zeydan**, F. Kalyoncu, C. Etemoglu, "A Performance Comparison Platform of Mobile Network Operators", in *Proc. of Demonstrations Papers track of 8th International Conference on the Network of the Future (NoF)*, 22-24 November 2017, London, United Kingdom.
- 13) O. Narmanlioglu, **E. Zeydan**, M. Kandemir and T. Kranda, "Prediction of Active UE Number with Bayesian Neural Networks for Self-Organizing LTE Networks," in *Proc. of 8th International Conference on the Network of the Future (NoF)*, 22-24 November 2017, London, United Kingdom **(BEST PAPER AWARD)**.
- 14) **E. Zeydan** and O. Narmanlioglu, "Dynamic Slicing for Mobile Network Infrastructures: Challenges, Opportunities and Business Aspects", in *Proc. of European Conference on Networks and Communications (EuCNC 2017)*, 12-15 June 2017, Oulu, Finland.
- 15) O. Narmanlioglu and **E. Zeydan**, "Interference Coordination in SDN-Based Heterogeneous Mobile Networks", in *Proc. of the 2017 IEEE International Black Sea Conference on Communications and Networking (BlackSeaCom 2017)*, 05-08 June 2017, Istanbul, Turkey.
- 16) I. O. Yiğit, **E. Zeydan** and A. F. Ateş, "An Application for Detecting Network Related Problems from Call Center Text Data", in *Proc. of the 2017 IEEE International Black Sea Conference on Communications and Networking (BlackSeaCom 2017)*, 05-08 June 2017, Istanbul, Turkey.
- 17) C. Dincer and **E. Zeydan**, "Big Data Security: Requirements, Challenges and Preservation of Private Data inside Mobile Operators" , in *Proc. of the 2017 IEEE International Black Sea Conference on Communications and Networking (BlackSeaCom 2017)*, 05-08 June 2017, Istanbul, Turkey.
- 18) O. Narmanlioglu and **E. Zeydan**, "Efficient RRH Assignments for Mobile Network Operators in Shared Cellular Network Architecture", in *Proc. of the Second IFIP/IEEE International Workshop on Management of 5G Networks (5GMAN 2017)*, held as part of *IEEE/IFIP IM 2017*, 08-12 May 2017, Lisbon, Portugal.
- 19) O. Narmanlioglu and **E. Zeydan**, "New Era in Shared C-RAN and Core Network: A Case Study for Efficient RRH Usage", in *Proc. of IEEE International Conference on Communications (ICC 2017) SAC Symposium SDN & NFV Track*, 21-25 May 2017, Paris, France.
- 20) O. Narmanlioglu and **E. Zeydan**, "Learning in SDN-Based Multi-Tenant Cellular Networks: A Game-Theoretic Perspective" in *Proc. of the Second IEEE/IFIP International Workshop on Analytics for Network and Service Management (AnNet 2017)*, held as part of *IEEE/IFIP IM 2017*, 08-12 May 2017, Lisbon, Portugal.
- 21) **E. Zeydan**, A. S. Tan, G. Ayhan and M. Koca, "A RAN/SDN Controller Based Connectivity Management Platform for Mobile Service Providers" in *Proc. of Demonstrations Papers track of IFIP/IEEE International Symposium on Integrated Network Management (IM 2017)*, 08-12 May 2017, Lisbon, Portugal.
- 22) O. Narmanlioglu and **E. Zeydan**, "Network Virtualization for Mobile Operators in Software-Defined Based LTE Networks" *Proc. of IFIP/IEEE International Symposium on Integrated Network Management (IM 2017)*, 08-12 May 2017, Lisbon, Portugal.
- 23) S. W. Munir, O. Amjad, **E. Zeydan**, and A. Ö. Ercan, "Optimization and Analysis of WLAN RF Energy Harvesting System Architecture" in *Proc. of International Symposium on Wireless Communication Systems (ISWCS 2016)*, 20-23 Sept. 2016, Poznan, Poland.
- 24) B. Kurt, **E. Zeydan**, U. Yabas, A. Karatepe, G. K. Kurt, T. Cemgil, "A network monitoring system for high speed network traffic", in *Proc. of Demonstrations Papers track of IEEE International Conference on Sensing, Communication and Networking (SECON 2016)*, 27-30 June 2016, London, UK.
- 25) G. Akpolat, D. Valerdi, **E. Zeydan** and A. Serdar Tan, "Mobile Opportunistic Traffic Offloading: A Business Case Analysis", in *Proc. of European Conference on Networks and Communications (EuCNC 2016)*, 27-30 June 2016, Athens, Greece.
- 26) **E. Zeydan**, A. Serdar Tan, Y. Mester and G. Özcan "Integration and Management of Wi-Fi Offloading in Service Provider Infrastructures", in *Proc. of the 8th IEEE/IFIP International*

Workshop on Management of the Future Internet (ManFI 2016), held as part of IEEE/IFIP NOMS 2016, 25-29 April 2016, Istanbul, Turkey.

- 27) **E. Zeydan**, U. Yabas, S. Sozuer, C. Etemoglu, "Streaming Alarm Data Analytics for Mobile Service Providers", in *Proc. of Demonstrations Papers track of IEEE/IFIP Network Operations and Management Symposium (NOMS 2016)*, 25-29 April 2016, Istanbul, Turkey.
- 28) H. Selvi, **E. Zeydan**, G. Gür, F. Alagöz, "Load balancing in OpenFlow-enabled switches for wireless access traffic aggregation", *Proc. of Demonstrations Papers track of IEEE/IFIP Network Operations and Management Symposium (NOMS 2016)*, 25-29 April 2016, Istanbul, Turkey.
- 29) S. Sozuer, **E. Zeydan**, C. Etemoglu, "A New Approach for Clustering Alarm Sequences in Mobile Operators", in *Proc. of IEEE/IFIP International Workshop on Analytics for Network and Service Management (AnNet 2016), held as part of IEEE/IFIP NOMS 2016, 25-29 April 2016, Istanbul, Turkey*
- 30) M. Abdel Kader, E. Baştuğ, M. Bennis, **E. Zeydan**, A. Karatepe, A. Salih Er and M. Debbah "Leveraging Big Data Analytics for Cache-Enabled Wireless Networks", in *Proc. of IEEE Global Communications Conference (GLOBECOM) Workshop on 5G & Beyond - Enabling Technologies and Application*, 06-10 December 2015, San Diego, US.
- 31) **E. Zeydan**, A. Serdar Tan, I. Alper Karatepe, A. Salih Er and G. Özcan, "Connectivity Management Using Multiple Attribute Decision Making in Heterogeneous Networks" in *Proc. of International Symposium on Wireless Communication Systems (ISWCS 2015)*, 225-28 August 2015, Brussels, Belgium.
- 32) O. F. Celebi, **E. Zeydan**, I. Ari, O. Ileri and S. Ergut, "Alarm Sequence Rule Mining Extended With A Time Confidence Parameter" in *Poster Proceedings of Industry Conference on Data Mining (ICDM'14)*, July 2014, St. Petersburg, Russia.
- 33) A. İ. Karatepe, **E. Zeydan**, "Anomaly Detection In Cellular Network Data Using Big Data Analytics", in *proceedings of European Wireless 2014 (EW 14) SHARING: Self Organized Heterogeneous Radio Networks special session*, 14-16 May 2014, Barcelona, Spain.
- 34) A. Tuzunkan, C. Gungor, **E. Zeydan**, O. Ileri, S. Ergut, "Seamless Mobile Data Offloading in Heterogeneous Wireless Networks based on IEEE 802.21 and User Experience" in *proceedings of IEEE WCNC 2014 –Workshop on Self Organizing Networks*, April 6-9 2014, Istanbul, Turkey.
- 35) O. F. Celebi, **E. Zeydan**, O. F. Kurt, O. Dedeoglu, O. Ileri, B. A. Sungur, A. Akan, S. Ergut, "On Use of Big Data for Enhancing Network Efficiency: 3G Coverage Identification", in *IEEE 20th International Conference on Telecommunications (ICT'2013)*, 6-8 May 2013, Casablanca, Morocco (invited paper).
- 36) I. Basturk, B. Ozbek, C. Edemen, A. S. Tan, **E. Zeydan**, S. Ergut, "Radio Resource Management for OFDMA-based Mobile Relay Enhanced Heterogeneous Cellular Networks" in 2013 IEEE 77th Vehicular Technology Conference, (VTC'13), June 2013, Dresden, Germany.
- 37) **E. Zeydan**, D. Kivanc and U. Tureli, "Iterative Beamforming and Power Control for MIMO Ad Hoc Networks" in *Proc. of IEEE Global Communications Conference 2010 (GLOBECOM'10)*, Miami, FL, December 2010.
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