

Prof. Dr. METİN ŞENGÜL

Kişisel Bilgiler

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Uluslararası Araştırmacı ID'leri

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Publons / Web Of Science ResearcherID: D-1682-2019

ScopusID: 14630977200

Yoksis Araştırmacı ID: 9197

Eğitim Bilgileri

Doktora, Işık Üniversitesi, Mühendislik Fakültesi, Elektrik-Elektronik Mühendisliği Bölümü, Türkiye 2002 - 2006

Yüksek Lisans, İstanbul Üniversitesi, Fen Bilimleri Enstitüsü, Elektronik Mühendisliği (YI) (Tezli), Türkiye 1996 - 1999

Lisans, İstanbul Üniversitesi, Mühendislik Fakültesi, Elektronik Mühendisliği Bölümü, Türkiye 1992 - 1996

Yabancı Diller

İngilizce, B2 Orta Üstü

Yaptığı Tezler

Doktora, Circuit models with mixed lumped and distributed elements for passive one-port devices, Işık Üniversitesi, Mühendislik Fakültesi, Elektrik-Elektronik Mühendisliği Bölümü, 2006

Yüksek Lisans, Güvenli ses haberleşmesi, İstanbul Üniversitesi, Fen Bilimleri Enstitüsü, Elektronik Mühendisliği (YI) (Tezli), 1999

Araştırma Alanları

Elektrik-Elektronik Mühendisliği

Akademik Unvanlar / Görevler

Prof. Dr., İstanbul Kültür Üniversitesi, Mühendislik Fakültesi, Elektrik-Elektronik Mühendisliği, 2023 - Devam Ediyor

Prof. Dr., Kadir Has Üniversitesi, Mühendislik Ve Doğa Bilimleri Fakültesi, Elektrik-Elektronik Mühendisliği Bölümü, 2018 - 2023

Doç. Dr., Kadir Has Üniversitesi, Mühendislik Ve Doğa Bilimleri Fakültesi, Elektrik-Elektronik Mühendisliği Bölümü, 2010 - 2018

Yrd. Doç. Dr., Kadir Has Üniversitesi, Mühendislik Ve Doğa Bilimleri Fakültesi, Elektrik-Elektronik Mühendisliği Bölümü, 2006 - 2010

Öğretim Görevlisi, Kadir Has Üniversitesi, Mühendislik Ve Doğa Bilimleri Fakültesi, Elektrik-Elektronik Mühendisliği

Bölümü, 2000 - 2006

Akademik İdari Deneyim

Kadir Has Üniversitesi, 2017 - 2020

Verdiği Dersler

Electromagnetic Field Theory, Lisans, 2023 - 2024

Communication Electronics, Lisans, 2023 - 2024, 2013 - 2014

Microwave Engineering, Lisans, 2023 - 2024, 2018 - 2019, 2013 - 2014

Introduction to Electromagnetics, Lisans, 2023 - 2024

Yönetilen Tezler

METİN Ş., High-pass and low-pass mixed element lossless two-port networks as phase shifters, Doktora, G.ÇAKMAK(Öğrenci), 2022

METİN Ş., Explicit solutions of two-variable scattering equations and broadband matching network design, Yüksek Lisans, G.EKER(Öğrenci), 2019

METİN Ş., Analysis of structures formed with shunt capacitor separated by transmission lines, Yüksek Lisans, G.ÇAKMAK(Öğrenci), 2018

METİN Ş., Computation of two-variable mixed element network functions, Yüksek Lisans, N.TABASSUM(Öğrenci), 2018

METİN Ş., Real frequency design of narrowband impedance equalizer with complex terminations, Yüksek Lisans, G.YEŞİLYURT(Öğrenci), 2018

METİN Ş., Scattering transfer matrix factorization based synthesis of resistively terminated LC ladder networks, Yüksek Lisans, Z.AYDOĞAR(Öğrenci), 2011

SCI, SSCI ve AHCI İndekslerine Giren Dergilerde Yayınlanan Makaleler

- I. **Quality factor based transducer power gain expression**
Şengül M.
COMPEL-THE INTERNATIONAL JOURNAL FOR COMPUTATION AND MATHEMATICS IN ELECTRICAL AND ELECTRONIC ENGINEERING, cilt.42, ss.1554-1564, 2023 (SCI-Expanded)
- II. **Component value calculations in a mixed element ladder network containing series capacitors separated by unit elements**
ŞENGÜL M., Çakmak G.
International Journal of Circuit Theory and Applications, cilt.49, sa.10, ss.3368-3377, 2021 (SCI-Expanded)
- III. **Solution of Lossless Broadband Matching Problems via Insertion Loss Method**
ŞENGÜL M.
IEEE Transactions on Circuits and Systems II: Express Briefs, cilt.68, sa.10, ss.3236-3240, 2021 (SCI-Expanded)
- IV. **Narrower band matching with low quality factor values**
ŞENGÜL M.
IEEE Transactions on Circuits and Systems II: Express Briefs, cilt.68, sa.7, ss.2434-2437, 2021 (SCI-Expanded)
- V. **Mixed Element Networks with Series Capacitors Separated by Unit Elements**
ŞENGÜL M., Çakmak G.
Journal of Circuits, Systems and Computers, cilt.30, sa.7, 2021 (SCI-Expanded)
- VI. **Design of Phase Shifters with Ladder Stubs Via Real Frequency Technique**
ŞENGÜL M.

- Journal of Circuits, Systems and Computers, cilt.30, sa.7, 2021 (SCI-Expanded)
- VII. **Phase Shifting Properties of High-Pass and Low-Pass Mixed-Element Two-Ports**
ŞENGÜL M., Cakmak G., Ozdemir R.
IEEE Transactions on Circuits and Systems II: Express Briefs, cilt.68, sa.4, ss.1208-1212, 2021 (SCI-Expanded)
- VIII. **Explicit solutions of two-variable scattering equations describing lossless low-pass two-ports with mixed lumped and distributed elements**
ŞENGÜL M., Eker G.
International Journal of Circuit Theory and Applications, cilt.47, sa.12, ss.1963-1969, 2019 (SCI-Expanded)
- IX. **Modified Q -Based Real Frequency Design of Narrowband Impedance Equalizer with Complex Terminations**
ŞENGÜL M., Yeşilyurt G.
Journal of Circuits, Systems and Computers, cilt.28, sa.11, 2019 (SCI-Expanded)
- X. **Analysis of mixed-element structures formed with shunt capacitors separated by transmission lines**
ŞENGÜL M., Cakmak G.
IEEE Transactions on Circuits and Systems II: Express Briefs, cilt.66, sa.8, ss.1331-1335, 2019 (SCI-Expanded)
- XI. **Broadband Matching via Unequal Length Cascaded Transmission Lines**
ŞENGÜL M.
Journal of Circuits, Systems and Computers, cilt.26, sa.5, 2017 (SCI-Expanded)
- XII. **Reflection Modeling Based Broadband Matching Network Design**
ŞENGÜL M.
Frequenz, cilt.71, sa.5-6, ss.237-242, 2017 (SCI-Expanded)
- XIII. **High-pass/low-pass section design for 0° - 360° lumped-element phase shifters via the real frequency technique**
ŞENGÜL M.
Turkish Journal of Electrical Engineering and Computer Sciences, cilt.25, sa.3, ss.1922-1931, 2017 (SCI-Expanded)
- XIV. **Broadband matching via reflection function optimization**
ŞENGÜL M.
International Journal of Circuit Theory and Applications, cilt.45, sa.1, ss.133-140, 2017 (SCI-Expanded)
- XV. **Broadband Microwave Amplifier Design with Lumped Elements**
ŞENGÜL M.
Frequenz, cilt.70, sa.3-4, ss.183-188, 2016 (SCI-Expanded)
- XVI. **Design of practical broadband matching networks with mixed lumped and distributed elements**
ŞENGÜL M.
IEEE Transactions on Circuits and Systems II: Express Briefs, cilt.61, sa.11, ss.875-879, 2014 (SCI-Expanded)
- XVII. **Shifted-modified Chebyshev filters**
ŞENGÜL M.
Turkish Journal of Electrical Engineering and Computer Sciences, cilt.21, sa.5, ss.1351-1358, 2013 (SCI-Expanded)
- XVIII. **Design of practical broadband matching networks with commensurate transmission lines**
ŞENGÜL M.
AEU - International Journal of Electronics and Communications, cilt.67, sa.8, ss.676-680, 2013 (SCI-Expanded)
- XIX. **Foster impedance data modeling via singly terminated LC ladder networks**
ŞENGÜL M.
Turkish Journal of Electrical Engineering and Computer Sciences, cilt.21, sa.3, ss.785-792, 2013 (SCI-Expanded)
- XX. **Design of practical broadband matching networks with lumped elements**
ŞENGÜL M.
IEEE Transactions on Circuits and Systems II: Express Briefs, cilt.60, sa.9, ss.552-556, 2013 (SCI-Expanded)
- XXI. **Broadband impedance matching via lossless unsymmetrical lattice networks**
ŞENGÜL M.
AEU - International Journal of Electronics and Communications, cilt.66, sa.1, ss.76-79, 2012 (SCI-Expanded)
- XXII. **Analytic solution of the Feldtkeller equation**
ŞENGÜL M.

- AEU - International Journal of Electronics and Communications, cilt.63, sa.8, ss.632-637, 2009 (SCI-Expanded)
- XXIII. **Design of broadband single matching networks**
ŞENGÜL M.
AEU - International Journal of Electronics and Communications, cilt.63, sa.3, ss.153-157, 2009 (SCI-Expanded)
- XXIV. **Construction of lossless ladder networks with simple lumped elements connected via commensurate transmission lines**
ŞENGÜL M.
IEEE Transactions on Circuits and Systems II: Express Briefs, cilt.56, sa.1, ss.1-5, 2009 (SCI-Expanded)
- XXV. **Broadband decoupling and matching of a superdirective two-port antenna array**
Volmer C., ŞENGÜL M., Weber J., Stephan R., Hein M. A.
IEEE Antennas and Wireless Propagation Letters, cilt.7, ss.613-616, 2008 (SCI-Expanded)
- XXVI. **Design of distributed-element RF filters via reflectance data modeling**
ŞENGÜL M., Yarman S. B., Volmer C., Hein M.
AEU - International Journal of Electronics and Communications, cilt.62, sa.7, ss.483-489, 2008 (SCI-Expanded)
- XXVII. **Modeling based real frequency technique**
ŞENGÜL M.
AEU - International Journal of Electronics and Communications, cilt.62, sa.2, ss.77-80, 2008 (SCI-Expanded)
- XXVIII. **Design of broadband microwave amplifiers with mixed-elements via reflectance data modeling**
ŞENGÜL M., B. Yarman S.
AEU - International Journal of Electronics and Communications, cilt.62, sa.2, ss.132-137, 2008 (SCI-Expanded)
- XXIX. **Explicit synthesis formulae for cascaded lossless commensurate lines**
ŞENGÜL M.
Frequenz, cilt.62, sa.1-2, ss.16-17, 2008 (SCI-Expanded)
- XXX. **Broadband equalizer design with commensurate transmission lines via reflectance modeling**
ŞENGÜL M., Yarman S. B.
IEICE Transactions on Fundamentals of Electronics, Communications and Computer Sciences, cilt.E91-A, sa.12, ss.3763-3771, 2008 (SCI-Expanded)
- XXXI. **Synthesis of cascaded lossless commensurate lines**
ŞENGÜL M.
IEEE Transactions on Circuits and Systems II: Express Briefs, cilt.55, sa.1, ss.89-91, 2008 (SCI-Expanded)
- XXXII. **Reflectance-based foster impedance data modeling**
ŞENGÜL M.
Frequenz, cilt.61, sa.7-8, ss.194-196, 2007 (SCI-Expanded)

Diğer Dergilerde Yayınlanan Makaleler

- I. **Broadband matching via reflection coefficient modeling**
ŞENGÜL M.
Istanbul University - Journal of Electrical and Electronics Engineering, cilt.16, sa.2, ss.3043-3047, 2016 (Scopus)
- II. **An alternative approach to design lumped element delay equalizers**
ŞENGÜL M.
Istanbul University - Journal of Electrical and Electronics Engineering, cilt.15, sa.1, ss.1883-1887, 2015 (Scopus)
- III. **Broadband double-matching via lossless unsymmetrical lattice networks**
ŞENGÜL M.
Istanbul University - Journal of Electrical and Electronics Engineering, cilt.12, sa.2, ss.1511-1515, 2012 (Scopus)
- IV. **Synthesis of resistively terminated LC ladder networks**
ŞENGÜL M.
Istanbul University - Journal of Electrical and Electronics Engineering, cilt.11, sa.2, ss.1407-1412, 2011 (Scopus)
- V. **Design table formation of stepped impedance prototype filters**
ŞENGÜL M.

- Istanbul University - Journal of Electrical and Electronics Engineering, cilt.10, sa.1, ss.1129-1134, 2010 (Scopus)
- VI. **Synthesis of lossless ladder networks with simple lumped elements connected via commensurate transmission lines**
ŞENGÜL M.
Istanbul University - Journal of Electrical and Electronics Engineering, cilt.10, sa.2, ss.1219-1228, 2010 (Scopus)
- VII. **Design of practical matching networks with lumped elements via modeling**
Yarman B. S., ŞENGÜL M., Kilinc A.
IEEE Transactions on Circuits and Systems I: Regular Papers, cilt.54, sa.8, ss.1829-1837, 2007 (Scopus)
- VIII. **On the inverse point-source problem of the poisson equation**
Yilmaz M., ŞENGÜL M., Geçkinli M.
Istanbul University - Journal of Electrical and Electronics Engineering, cilt.5, sa.2, ss.1395-1401, 2005 (Scopus)

Hakemli Kongre / Sempozyum Bildiri Kitaplarında Yer Alan Yayınlar

- I. **Detection Of Vehicle License Plate Location Using Convolutional Neural Network**
DARICI M. B., KİRACI F., ÖZMEN A., ŞENGÜL M.
5th International Conference on Engineering and National Sciences (ICENS'2019), 12 - 16 Haziran 2019
- II. **Transitional Butterworth-Chebyshev Filters**
ŞENGÜL M.
2018 18TH MEDITERRANEAN MICROWAVE SYMPOSIUM (MMS), İstanbul, Türkiye, 31 Ekim - 02 Kasım 2018, ss.157-159
- III. **Real Frequency Design of Pi and T Matching Networks with Complex Terminations**
ŞENGÜL M.
2017 10TH INTERNATIONAL CONFERENCE ON ELECTRICAL AND ELECTRONICS ENGINEERING (ELECO), Bursa, Türkiye, 30 Kasım - 02 Aralık 2017, ss.1328-1331
- IV. **Alternative Transducer Power Gain Expression in Broadband Matching Network Designs**
ŞENGÜL M.
2016 NATIONAL CONFERENCE ON ELECTRICAL, ELECTRONICS AND BIOMEDICAL ENGINEERING (ELECO), Bursa, Türkiye, 1 - 03 Aralık 2016, ss.415-418
- V. **Broadband Single Matching with Lumped Elements**
ŞENGÜL M.
2015 9TH INTERNATIONAL CONFERENCE ON ELECTRICAL AND ELECTRONICS ENGINEERING (ELECO), Bursa, Türkiye, 26 - 28 Kasım 2015, ss.115-118
- VI. **Genetic algorithm based broadband equalizer design with ripple level control**
ŞENGÜL M., Özmen A.
International Symposium on INnovations in Intelligent SysTems and Applications, INISTA 2012, Trabzon, Türkiye, 2 - 04 Temmuz 2012
- VII. **Realization of ideal filter characteristics via genetic algorithm**
ŞENGÜL M., Özmen A.
7th International Conference on Electrical and Electronics Engineering, ELECO 2011, Bursa, Türkiye, 1 - 04 Aralık 2011
- VIII. **Design of impedance matching network for B&K 8104 hydrophone via Direct Computational Technique for underwater communication**
Kuzlu M., ŞENGÜL M., Kilmç A., DİNÇER H., Yağlıdere I., Yarman S. B.
2010 10th Mediterranean Microwave Symposium, MMS 2010, Guzelyurt, Kıbrıs (Gkry), 25 - 27 Ağustos 2010, ss.399-402
- IX. **Synthesis of resistively terminated high-pass LC ladder networks Direnç ile sonlandırılmış yüksek geçiren LC merdiven devrelerin sentezi**
ŞENGÜL M., Aydoğar Z.
2010 7th National Conference on Electrical, Electronics and Computer Engineering, ELECO 2010, Bursa, Türkiye, 2

- 05 Aralık 2010, ss.361-364

- X. **Transfer matrix factorization based synthesis of resistively terminated LC ladder networks**
ŞENGÜL M., Aydoğar Z.
6th International Conference on Electrical and Electronics Engineering, ELECO 2009, Bursa, Türkiye, 5 - 08 Kasım 2009
- XI. **Cascaded Lossless Commensurate Line Synthesis**
ŞENGÜL M.
2009 EUROPEAN CONFERENCE ON CIRCUIT THEORY AND DESIGN, VOLS 1 AND 2, Antalya, Türkiye, 23 - 27 Ağustos 2009, ss.295-298
- XII. **Design of mixed-element networks via modeling**
ŞENGÜL M.
2008 3RD INTERNATIONAL SYMPOSIUM ON COMMUNICATIONS, CONTROL AND SIGNAL PROCESSING, VOLS 1-3, St Julians, 12 - 14 Mart 2008, ss.269
- XIII. **A single matching network design for a double band PIFA antenna via simplified real frequency technique**
Yarman B. S., ŞENGÜL M., Lindbergh P., Rydberg A.
2006 Asia-Pacific Microwave Conference, APMC, Yokohama, Japonya, 12 - 15 Aralık 2006, cilt.2, ss.1325-1326
- XIV. **A single matching network design for a dual band PIFA antenna via simplified real frequency technique**
Lindberg P., ŞENGÜL M., Cimen E., Yarman B., Rydberg A., Aksen A.
European Conference on Antennas and Propagation: EuCAP 2006, Nice, Fransa, 6 - 10 Kasım 2006, cilt.626 SP
- XV. **Power transfer networks at RF frequencies "New design procedures with implementation roadmap"**
ŞENGÜL M.
2006 IEEE INTERNATIONAL SYMPOSIUM ON CIRCUITS AND SYSTEMS, VOLS 1-11, PROCEEDINGS, Kos, 21 - 24 Mayıs 2006, ss.1768-1771
- XVI. **Reflectance data model with mixed lumped and distributed elements for wireless communication systems**
ŞENGÜL M.
Proceedings of the 2005 European Conference on Circuit Theory and Design, Vol 3, Cork, İrlanda, 29 Ağustos - 02 Eylül 2005, ss.289-292
- XVII. **Circuit model for given reflectance data constructed with mixed lumped and distributed elements for high speed/high frequency communication systems**
ŞENGÜL M.
Fourth International Workshop on Multidimensional Systems - NDS 2005, Wuppertal, Almanya, 10 - 13 Temmuz 2005, ss.12-18
- XVIII. **A broadband microwave amplifier design by means of immittance based data modelling tool**
ŞENGÜL M.
2002 IEEE AFRICON, VOLS 1 AND 2, George, Güney Afrika, 2 - 04 Ekim 2002, ss.535-540

Metrikler

Yayın: 58

Atıf (Scopus): 235

H-İndeks (Scopus): 9