

Electrical Engineering – Electronics and / Telecommunications

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Education

- B.Sc: SHAHID BEHESHTI UNIVERSITY, Electrical Engineering Electronics
- M.Sc: , Electrical Engineering –Communications
- Ph.D: , Electrical Engineering –Communications

Research Interests

Professional Experiences

■, 1398→1402

- **■**, 1398→1402
- , 1398→1398
- **■**, 1398→1398
- , 1397→1400
- **■**, 1397→1398
- , 1397→Now
- **■** , 1397→1398
- **■**, 1396→1400

- **■**, 1396→1398
- , 1396→Now
- , 1396→1400
- , 1396→1398
- , 1396→1396
- , 1394→1395
- , 1394→1395
- **■**, 1392→1394
- , 1389→1391
- , 1388→Now

Books

■ اصول و مبانی سیستم های مخابراتی

سيدمحمدسجاد صدوق

دانشگاه شهیدبهشتی – تهران، ایران، ۱۳۹۵، شابک: ۱۳۵۷

- مدارهای مخابراتی عملیاتی، کانون نشر علوم، چاپ دوم سیدمحمدسجاد صدوق، حمیدرضا عابد مسرورخواه کانون نشر علوم، ایران، ۱۳۹۲، شابک: ۵۹۵ه ۹۷۸۹۶۴۳۲۷۰
- مدارهای مخابراتی عملیاتی، کانون نشر علوم، چاپ اول سیدمحمدسجاد صدوق، حمیدرضا عابد مسرورخواه کانون نشر علوم، ایران، ۱۳۹۲، شابک: ۵۹۵ه ۹۷۸۹۶۴۳۲۷
- مبانی سیگنال ها و سیستم ها و مخابرات دیجیتال با استفاده از متلب، کانون نشر علوم سیدمحمدسجاد صدوق، بهنود شرافتی

کانون نشر علوم، ایران، ۱۳۹۲، شابک: ۸۴ ه ۹۷۸۹۶۴۳۲۷۱

■ Recent Developments in Channel Estimation and Detection for MIMO Systems Seyed Mohammad Sajad Sadough IN-TECH Press, Croatia, 2010, 10.5772/9485

Industry Collaborations

- پهینه سازی سامانه های مکان یاب مبتنی بر جهت یابی اینترفرومتری 1397
- مبتنی بر فناوری LAN طراحی و پیاده سازی شبکه مخابرات بیسیم محلی Iifi مبتنی بر

- ح×> با استفاده از روش رادارثانویه tle امکان سنجی تعیین موقعیت مداری و استخراج 1391
- مقاوم سازی گیرنده های مورد استفاده در شبکه های رله ای رادیو شناختی در حضور عدم قطعیت روی پارامترهای تخمین کانال ۱391

Journal Papers

- A Novel Technique for Wideband Spectrum Sensing in Cognitive Radio Through Phase-Field Segmentation Mohammad Eslami, Seyed Mohammad Sajad Sadough WIRELESS PERSONAL COMMUNICATIONS
- Improved LED Arrangement Through Outage Probability Minimization in LiFi Communication Systems Mahmood Mohammadi, Seyed Mohammad Sajad Sadough IET Communications, Vol.17, pp. 987-998, 2023
- Enhanced secrecy outage probability for multiple-input single-output-VLC systems through optical beamforming and improved light emitting diodes deployment

 Mehmood Mehammadi, Sound Mehammad Scient Sadaugh, Zabib Chassembay,

Mahmood Mohammadi, Seyed Mohammad Sajad Sadough, Zabih Ghassemlooy IET Optoelectronics, Vol.17, pp. 101-109, 2023

- Improved physical layer secrecy fairness in a realistic indoor NOMA VLC network under users' mobility Fatemeh Bahadori, Seyed Mohammad Sajad Sadough OPTIK, Vol.291, pp. 1-14, 2023
- On the Cramer-Rao Lower Bound Analysis of Direct Position Determination and DOA Position Finding for Co-Channel Emitter Localization

ALI ESHKEVARI, Seyed Mohammad Sajad Sadough Journal of Applied Research in Electrical Engineering, Vol.1, pp. 131-138, 2021

■ On the Secrecy Outage Analysis of Underlay Cognitive Radio Systems with Buffer-Aided Relaying Under Nakagami-m Channels

Mohammad Javad Saber, Mohsen Naseri, Seyed Mohammad Sajad Sadough IET Communications, Vol.15, pp. 2304-2314, 2021

- An Improved Method for Localization of Wireless Capsule Endoscope Using Direct Position Determination ALI ESHKEVARI, Seyed Mohammad Sajad Sadough IEEE Access, Vol.9, pp. 154563-154577, 2021
- Optimal Cognitive Radio Spectrum Access With Joint Spectrum Sensing and Power Allocation Mohammad Karimi, Seyed Mohammad Sajad Sadough, Mohammad Torabi IEEE Wireless Communications Letters, Vol.9, pp. 8-11, 2020
- Enhanced direct position determination using dynamic sensor array response ALI ESHKEVARI, Seyed Mohammad Sajad Sadough ELECTRONICS LETTERS, Vol.56, pp. 354-357, 2020
- Optimal Placement of UAV-Assisted Free-Space Optical Communication Systems With DF Relaying Mohammad Taghi Dabiri, Seyed Mohammad Sajad Sadough IEEE COMMUNICATIONS LETTERS, Vol.24, pp. 155-158, 2020
- Efficient differential signalling with reduced background radiation for multiple aperture FSO communication systems

Mohammad Karimi, Seyed Mohammad Sajad Sadough, Mohammad Torabi IET Communications, Vol.14, pp. 1037-1042, 2020

■ Enhanced physical layer security for cognitive radio systems through joint spectrum access and power allocation Mohammad Karimi, Seyed Mohammad Sajad Sadough, Mohammad Torabi IET Communications, Vol.14, pp. 3135-3142, 2020

■ Receiver Design for OOK Modulation over Turbulence Channels Using Source Transformation

Mohammad Taghi Dabiri, Seyed Mohammad Sajad Sadough IEEE Wireless Communications Letters, Vol.8, pp. 392-395, 2019

■ Improved Joint Spectrum Sensing and Power Allocation for Cognitive Radio Networks Using Probabilistic Spectrum Access

Mohammad Karimi, Seyed Mohammad Sajad Sadough, Mohammad Torabi IEEE Systems Journal, Vol.13, pp. 3716-3723, 2019

■ Differential Pulse-Amplitude Modulation Signaling for Free-Space Optical Communications

Mohammad Taghi Dabiri, Seyed Mohammad Sajad Sadough, Mohammad Ali Khalighi IET Optoelectronics, Vol.13, pp. 155-160, 2019

- Optimal power control and spectrum sensing for throughput maximisation in cognitive radio systems under PUEA Mohammad Karimi, Ziba Dehghani, Seyed Mohammad Sajad Sadough, Mohammad Torabi IET Communications, Vol.13, pp. 2735-2742, 2019
- Robust spectrum access for hybrid interweave-underlay cognitive radio systems using probabilistic spectrum access

Mohammad Karimi, Seyed Mohammad Sajad Sadough, Mohammad Torabi IET Signal Processing, Vol.13, pp. 806-813, 2019

■ Generalized channel estimation and data detection for MIMO multiplexing FSO parallel channels over limited space

Himan Savojbolaghchi naghadeh, Seyed Mohammad Sajad Sadough, Mohammad Taghi Dabiri, Imran Shafique Ansari OPTICS COMMUNICATIONS, Vol.452, pp. 158-168, 2019

- Blind Signal Detection Under Synchronization Errors for FSO Links With High Mobility Mohammad Taghi Dabiri, Seyed Mohammad Sajad Sadough, Mohammad Ali Khalighi IEEE TRANSACTIONS ON COMMUNICATIONS, Vol.67, pp. 7006-7015, 2019
- Tractable Optical Channel Modeling Between UAVs

 Mohammad Taghi Dabiri, Seyed Mohammad Sajad Sadough, Imran Shafique Ansari
 IEEE TRANSACTIONS ON VEHICULAR TECHNOLOGY, Vol.68, pp. 11543-11550, 2019
- Bit error rate and outage analysis of MIMO-FSO communications over K-distributed atmospheric channels with imperfect feedback

Omid Movlavi, Mohammad Karimi, Seyed Mohammad Sajad Sadough OPTIK. Vol.198. 2019

■ Performance Analysis of EM-Based Blind Detection for ON-OFF Keying Modulation over Atmospheric Optical Channels

Mohammad Taghi Dabiri, Seyed Mohammad Sajad Sadough OPTICS COMMUNICATIONS, Vol.413, pp. 299-303, 2018

■ An Improved Variational Inference Approach to Iterative OFDM Receiver Design for Superimposed Training-Based AF Relay Networks

Seyed Mohammad Sajad Sadough, Seyedeh Zahra Chamideh IEEE TRANSACTIONS ON VEHICULAR TECHNOLOGY, Vol.67, pp. 2243-2253, 2018

- Channel Modeling and Parameter Optimization for Hovering UAV-Based Free-Space Optical Links Mohammad Taghi Dabiri, Seyed Mohammad Sajad Sadough, Mohammad Ali Khalighi IEEE JOURNAL ON SELECTED AREAS IN COMMUNICATIONS, Vol.36, pp. 2104-2113, 2018
- Enhanced Iterative Detection of Hierarchically Modulated Signals using VB-EM Algorithm Mahsa Azad, Seyed Mohammad Sajad Sadough International Journal of Information and Communication Technology Research (IJICT, Vol.10, pp. 62-69, 2018
- Performance Analysis of All-Optical Relaying over Log-Normal Free-Space Optical Channels Mohammad Taghi Dabiri, Seyed Mohammad Sajad Sadough Journal of Optical Communications and Networking, Vol.10, pp. 79-89, 2018

■ On the Interaction Between Joint Tx/Rx IQI and Channel Estimation Errors in DVB-T Systems

Seyyed Ali Mohajeran, Seyed Mohammad Sajad Sadough IEEE Systems Journal, Vol.12, pp. 3271-3278, 2018

■ Efficient Transmission Strategy for Cognitive Radio Systems Under Primary User Emulation Attack Mohammad Karimi, Seyed Mohammad Sajad Sadough

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■ Improved Spectrum Sensing and Achieved Throughput of Multiband Cognitive Radio Systems Under Probabilistic Spectrum Access

Mohammad Karimi, Seyed Mohammad Sajad Sadough AEU-INTERNATIONAL JOURNAL OF ELECTRONICS AND COMMUNICATIONS, Vol.86, pp. 8-16, 2018

■ Achieved Throughput of OFDM-based Cognitive Radio Systems in the Presence of Inphase Quadrature Imbalance

Seyyed Ali Mohajeran, Seyed Mohammad Sajad Sadough Transactions on Emerging Telecommunications Technologies, Vol.28, pp. 1-12, 2017

■ FSO Channel Estimation for OOK Modulation with APD Receiver over Atmospheric Turbulence and Pointing Errors

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■ GLRT-Based Sequence Detection of OOK Modulation over FSO Turbulence Channels

Mohammad Taghi Dabiri, Seyed Mohammad Sajad Sadough, Hossein Safi IEEE PHOTONICS TECHNOLOGY LETTERS, Vol.29, pp. 1494-1497, 2017

- On the Performance of Multiplexing FSO MIMO Links in Log-Normal Fading with Pointing Errors Mohammad Taghi Dabiri, Mohammad Javad Saber, Seyed Mohammad Sajad Sadough Journal of Optical Communications and Networking, Vol.9, pp. 974-983, 2017
- An improved one-to-many authentication scheme based on bilinear pairings with provable security for mobile pay-TV systems

Mohammad Heydari, Seyed Mohammad Sajad Sadough, Shehzad Ashraf Chaudhry, Mohammad Sabzinejad Farsh, Khalid Mahmood MULTIMEDIA TOOLS AND APPLICATIONS, Vol.76, pp. 14225-14245, 2017

■ Generalized Blind Detection of OOK Modulation for Free-Space Optical Communication Mohammad Taghi Dabiri, Seyed Mohammad Sajad Sadough

IEEE COMMUNICATIONS LETTERS, Vol.21, pp. 2170-2173, 2017

■ A lightweight anonymous authentication scheme for consumer roaming in ubiquitous networks with provable security

Mohammad Sabzinejad Farash, Shehzad Ashraf Chaudhry, Mohammad Heydari, Seyed Mohammad Sajad Sadough, Saru Kumari, Muhammad Khurram Khan

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■ On Secure Free-Space Optical Communications over Malaga Turbulence Channels

Mohammad Javad Saber, Seyed Mohammad Sajad Sadough IEEE Wireless Communications Letters, Vol.6, pp. 274-277, 2017

- Efficient Signal Detection for Cognitive Radio Relay Networks Under Imperfect Channel Estimation Seyed Mohammad Sajad Sadough, Seyedeh Zahra Chamideh, Mohammad Ali Khalighi Transactions on Emerging Telecommunications Technologies, Vol.27, pp. 1593-1605, 2016
- Multiband Cooperative Spectrum Sensing for Cognitive Radio in the Presence of Malicious Users

 Mohammad Javad Saber, Seyed Mohammad Sajad Sadough
 IEEE COMMUNICATIONS LETTERS, Vol.20, pp. 404-407, 2016
- An Improved Authentication Scheme For Electronic Payment Systems in Global Mobility Networks Mohammad Heydari, Seyed Mohammad Sajad Sadough, Shehzad Ashraf Chaudhry, Mohammad Sabzinejad Farsh, Mohammad Reza Aref Information Technology and Control, Vol.44, pp. 387-403, 2016

■ An Efficient Password-Based Authenticated Key Exchange Protocol with Provable Security for Mobile Client Client Networks

Mohammad Heydari, Seyed Mohammad Sajad Sadough, Mohammad Sabzinejad Farsh, Shehzad Ashraf Chaudhry, Khalid Mahmood WIRELESS PERSONAL COMMUNICATIONS, Vol.88, pp. 337-356, 2016

■ A New Protocol for Cooperative Spectrum Sharing in Mobile Cognitive Radio Networks

S. A. Hosseini, B. Abolhassani, Seyed Mohammad Sajad Sadough Radioengineering, Vol.24, pp. 757-764, 2015

■ Efficient Variational Bayesian Method for Joint Channel Estimation and Signal Detection in OFDM-Based AF Relay Networks

Seyed Mohammad Sajad Sadough, Seyedeh Zahra Chamideh IEEE COMMUNICATIONS LETTERS, Vol.19, pp. 1786-1789, 2015

■ Smart Primary User Emulation in Cognitive Radio Networks Defence Strategies Against Radio-Aware Attacks and Robust Spectrum Sensing

Maryam Haghighat, Seyed Mohammad Sajad Sadough Transactions on Emerging Telecommunications Technologies, Vol.26, pp. 1154-1164, 2015

- Optimal Soft Combination for Multiple Antenna Energy Detection Under Primary User Emulation Attacks
 Mohammad Javad Saber, Seyed Mohammad Sajad Sadough
 AEU-INTERNATIONAL JOURNAL OF ELECTRONICS AND COMMUNICATIONS, Vol.69, pp. 1181-1188, 2015
- Cooperative Spectrum Sensing for Cognitive Radio Networks in the Presence of Smart Malicious Users Maryam Haghighat, Seyed Mohammad Sajad Sadough AEU-INTERNATIONAL JOURNAL OF ELECTRONICS AND COMMUNICATIONS, Vol.68, pp. 520-527, 2014
- An Adaptive Multitaper-SVD Spectrum Sensing Method for OFDM-Based Cognitive Radio Systems Fariba Rezaei, Farah Torkamani-Azar, Seyed Mohammad Sajad Sadough WIRELESS PERSONAL COMMUNICATIONS, Vol.79, pp. 831-846, 2014
- Improved MAP Signal Detection for Amplify-and-Forward Relay Networks with Imperfect Channel State Information

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Mohammad Javad Saber, Seyed Mohammad Sajad Sadough Transactions on Emerging Telecommunications Technologies, Vol.1, pp. 1-6, 2014

■ Robust Power and Subcarrier Allocation for OFDM-based Cognitive Radio Networks Considering Spectrum Sensing Uncertainties

Hoshang Fathi, Seyed Mohammad Sajad Sadough Radioengineering, Vol.22, pp. 810-817, 2013

■ Spectrum Leasing for OFDM-Based Cognitive Radio Networks

Seyed Mahdi Moosavi Toroojeni, Seyed Mohammad Sajad Sadough, Seyed Ali Ghorashi IEEE TRANSACTIONS ON VEHICULAR TECHNOLOGY, Vol.62, pp. 2131-2139, 2013

■ Improved MIMO Turbo-Trellis Coded Modulation Under Channel Estimation Errors

Mohammad Modarresi, Seyed Mohammad Sajad Sadough ARABIAN JOURNAL FOR SCIENCE AND ENGINEERING, Vol.38, pp. 2473-2479, 2013

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Seyed Mahdi Moosavi Toroojeni, Seyed Mohammad Sajad Sadough, Seyed Ali Ghorashi ARABIAN JOURNAL FOR SCIENCE AND ENGINEERING, Vol.1, 2013

Improved iterative joint detection and estimation through variational Bayesian inference

Seyed Mohammad Sajad Sadough, Mohammad Modarresi

AEU-INTERNATIONAL JOURNAL OF ELECTRONICS AND COMMUNICATIONS, Vol.66, pp. 380-383, 2012

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Navid Tafaghodi Khajavi, Seyed Mohammad Sajad Sadough

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■ Spectrum Sensing for Cognitive Radio Systems Through Primary User Activity Prediction Radioenginnering

Siavash Sadeghi Ivrigh, Seyed Mohammad Sajad Sadough

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Spectrum Sensing for Cognitive Radio Networks Based on Blind Source Separation

Siavash Sadeghi Ivrigh, Seyed Mohammad Sajad Sadough

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■ Robust Resource Allocation for OFDM-based Cognitive Radio in the Presence of Primary User Emulation Attack

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A Fair Radio Resource Allocation Algorithm for Uplink of FBMC Based CR Systems

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A New Method For Increasing the Accuracy of EM-based Channel Estimation

Seyed Mohammad Sajad Sadough, Mohammad Modarresi

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■ Optimal Beamforming in Two-Way Relay Networks with Cognitive Radio Capabilities

Ardalan Alizadeh, Seyed Mohammad Sajad Sadough

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■ On time-frequency resource leasing in cognitive radio networks

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■ Improved reception schemes for digital Video broadcasting based on hierarchical modulation

Seyed Mohammad Sajad Sadough

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PABLO PIANTANIDA, Seyed Mohammad Sajad Sadough, PIERRE DUHAMEL

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■ Improved iterative detection and achieved throughputs of OFDM systems under imperfect channel estimation Seyed Mohammad Sajad Sadough IEEE TRANSACTIONS ON WIRELESS COMMUNICATIONS, Vol.7, pp. 5039-5050, 2008

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■ Algorithms and networks for accelerated convergence of adaptive LD Seyed Mohammad Sajad Sadough PATTERN RECOGNITION, Vol.10, 2004

■ طراحی بهینه شبکه بی سیم مخابرات نور مرئی با هدف کمینه سازی احتمال قطع در محل گیرنده متحرک محمود محمدی، سیدمحمدسجاد صدوق

یدافند الکترونیکی و سایبری، نسخه ۱۰، صفحات: ۱–۹، ه ۱۴۰۰

■ تحت کانال های اتمسفری متلاطم با خطای نشانه روی ۲×۲–FSO سیگنالینگ تفاضلی مبتنی بر بازخورد برای سیستم امید مولوی، سیدمحمدسجاد صدوق

نشریه مهندسی برق و الکترونیک ایران، نسخه ۱۸، صفحات: ۱–۱۳۹۸، ۱۳۹۸

■ ارزیابی عملکرد محرمانگی شبکه رله ای بافردار رادیوشناختی در کانال های محوشدگی رایلی

محسن ناصری، محمد جواد صابر، سیدمحمدسجاد صدوق، محمد ترابی کنجین

نشریه مهندسی برق و الکترونیک ایران، نسخه ۱۶، صفحات: ۱۳–۱۲۱، ۱۳۹۸

با به کارگیری روش های تطبیق توان و M-PSK و M-PAM بررسی عملکرد لینک های مخابرات نوری فضای آزاد تحت مدولاسیون های

■ مدولاسيون

امید مولوی، محمد کریمی، سیدمحمدسجاد صدوق

پدافند الکترونیکی و سایبری، نسخه ۷، صفحات: ۶۳–۷۵، ۱۳۹۷

■ سنجش طیف و تخصیص همزمان منابع با استفاده از دسترسی احتمالاتی به طیف در شبکه های رادیوشناختی چندحاملی

محمد کریمی، سیدمحمدسجاد صدوق

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سعید خباز خرامه، سید محمد علوی، سیدمحمدسجاد صدوق

علوم و فناوری های پدافند نوین، نسخه ۶، صفحات: ۱۴۵–۱۵۱، ۱۳۹۳

Conference Papers

■ Outage Behavior of UAV-Assisted FSO Communication in the Presence of Random Fog and Generalized Beckmann Pointing Errors

Meysam Ghanbari, Mahdi Ataee, Seyed Mohammad Sajad Sadough The 4th Conference on Applied Research in Electrical Engineering ■ On the Interaction Between Meteorological Conditions and Performance Optimization in MISO Free-Space Optical Communication

Meysam Ghanbari, Mahdis Saghaee jahed, Seyed Mohammad Sajad Sadough 31st International Conference on Electrical Engineering (ICEE 2023), pp.479-483

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- Bit Error Rate Analysis for a Mixed Underwater OWC-FSO Relaying System in the Presence of Pointing Error Mahdis Saghaee jahed, Meysam Ghanbari, Seyed Mohammad Sajad Sadough 31st International Conference on Electrical Engineering (ICEE 2023), pp.512-516
- Secrecy Performance Improvement of a NOMA VLC Cellular Network with Artificial Noise Fatemeh Bahadori, Seyed Mohammad Sajad Sadough, Zabih Ghassemlooy 13th IEEE/IET International Symposium on Communication Systems, Networks and Digital Signal Processing, pp.162-167
- Physical Layer Security Enhancement in VLC Using Zero-Forcing Beamforming and Optimized LED Placement Mahmood Mohammadi, Seyed Mohammad Sajad Sadough, Zabih Ghassemlooy 13th IEEE/IET International Symposium on Communication Systems, Networks and Digital Signal Processing, pp.452-456
- Outage Performance Analysis for UAV-Based Mixed Underwater-FSO Communication Under Pointing Errors Meysam Ghanbari, Mahdi Ataee, Seyed Mohammad Sajad Sadough The 4th West Asian Symposium on Optical and Millimeter-wave Wireless Communications (WASOWC2022)
- The Sum Secrecy Rate of NOMA-Enabled VLC Network with the Random-Way Point Mobility Model Fatemeh Bahadori, Seyed Mohammad Sajad Sadough, Ghassemlooy Zabih 2021 Third South American Colloquium on Visible Light Communications (SACVLC)
- Outage Probability Improvement Through Optimal LED Placement for Visible Light Communications Mahmood Mohammadi, Seyed Mohammad Sajad Sadough The 3rd West Asian Symposium on Optical and Millimeter-wave Wireless Communications (WASOWC2020), pp.5-10
- Adaptive Equalization for Visible Light Communications with Power over Ethernet Backhaul Mahdi Ataee, Seyed Mohammad Sajad Sadough, Zabih Ghassemlooy
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- Achieved Throughput of Hovering UAV-Based Optical Wireless Communications
 Mohammad Taghi Dabiri, Seyed Mohammad Sajad Sadough, Himan Savojbolaghchi naghadeh
 The 3rd West Asian Symposium on Optical and Millimeter-wave Wireless Communications (WASOWC2020), pp.15-20
- An Adaptive Turbo Coded-OFDM Scheme for Visible Light Communications Mahdi Ataee, Seyed Mohammad Sajad Sadough, Zabih Ghassemlooy The 2nd West Asian Colloquium on Optical Wireless Communications (WACOWC 2019)
- Outage Analysis of UAV-Based FSO Systems over Log-Normal Turbulence Channels Mohammad Taghi Dabiri, Seyed Mohammad Sajad Sadough The 2nd West Asian Colloquium on Optical Wireless Communications (WACOWC 2019)
- On the Ergodic Capacity of Ground-to-UAV Free-Space Optical Communications Mohammad Taghi Dabiri, Himan Savojbolaghchi naghadeh, Seyed Mohammad Sajad Sadough The 2nd West Asian Colloquium on Optical Wireless Communications (WACOWC 2019)
- Fast and Efficient Sequence Detection for APD Photon-Counting FSO Systems
 Himan Savojbolaghchi naghadeh, Seyed Mohammad Sajad Sadough
 The 2nd West Asian Colloquium on Optical Wireless Communications (WACOWC 2019)
- On the Reduction of Background Radiation for Differential Signaling FSO Systems Mohammad Karimi, Seyed Mohammad Sajad Sadough, Mohammad Torabi The 2nd West Asian Colloquium on Optical Wireless Communications (WACOWC 2019)
- FSO Communication for High Speed Trains Blind Data Detection and Channel Estimation

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۱۳۹۶