

Personal Information

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Education Information

Doctorate, Yıldız Technical University, Graduate School of Natural and Applied Sciences, Turkey 2009 - 2014

Post Graduate, Balıkesir University, Faculty Of Science And Letters, Department Of Mathematics, Turkey 2007 - 2009

Under Graduate, Balıkesir University, Faculty Of Science And Letters, Department Of Mathematics, Turkey 2003 - 2007

Foreign Languages

English, C1 Advanced

Research Areas

Mathematics

Courses

Calculus II, Under Graduate, 2018 - 2019

Calculus I, Under Graduate, 2018 - 2019

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

- **Optimal binary codes derived from F₂F₄-additive cyclic codes**
Abualrub T., Aydin N., Aydoğdu İ.
JOURNAL OF APPLIED MATHEMATICS AND COMPUTING, no.1, 2020 (Journal Indexed in SCI)
- **On the structure of $\mathbb{Z}(2)\mathbb{Z}(2)[u(3)]$ -linear and cyclic codes**
Aydoğdu İ., Siap I., Ten-Valls R.
FINITE FIELDS AND THEIR APPLICATIONS, vol.48, pp.241-260, 2017 (Journal Indexed in SCI)
- **$\mathbb{Z}(2)\mathbb{Z}(2)[u]$ -Cyclic and Constacyclic Codes**
Aydoğdu İ., Abualrub T., Siap I.
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- **On $\mathbb{Z}(p)(r)\mathbb{Z}(p)(s)$ -additive codes**
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LINEAR & MULTILINEAR ALGEBRA, vol.63, pp.2089-2102, 2015 (Journal Indexed in SCI)
- **On DOUBLE-STRUCK CAPITAL $\mathbb{Z}(2)$ DOUBLE-STRUCK CAPITAL $\mathbb{Z}(2)[u]$ -additive codes**
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- **The Structure of $\mathbb{Z}(2)\mathbb{Z}(2)s$ -Additive Codes: Bounds on the Minimum Distance**
Aydoğdu İ., Siap I.
APPLIED MATHEMATICS & INFORMATION SCIENCES, vol.7, pp.2271-2278, 2013 (Journal Indexed in SCI)

Articles Published in Other Journals

- **Z₂Z₄Z₈-Cyclic codes**
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Journal of Applied Mathematics and Computing, vol.60, pp.327-341, 2019 (Refereed Journals of Other Institutions)
- **Self-Dual Cyclic and Quantum Codes Over Z₂x(Z₂ + uZ₂)**
AYDOĞDU İ., Abualrub T.
Discrete Mathematics, Algorithms and Applications, vol.1, no.1, pp.1, 2019 (Journal Indexed in ESCI)
- **Codes over Z_p[u]/ur x Z_p[u]/us**
AYDOĞDU İ.
Journal of Algebra Combinatorics Discrete Structures and Applications, vol.6, pp.39-51, 2019 (Refereed Journals of Other Institutions)
- **The structure of Z₂Z₂s -additive cyclic codes**
AYDOĞDU İ., Abualrub T.
Discrete Mathematics, Algorithms and Applications, vol.10, 2018 (Journal Indexed in ESCI)
- **The structure of one weight linear and cyclic codes over Z₂^r x (Z₂² uZ₂²)s**
AYDOĞDU İ.
An International Journal of Optimization and Control: Theories Applications (IJOCTA), vol.8, pp.92, 2018 (Refereed Journals of Other Institutions)
- **On Self-Dual Z₂Z₂[u]-linear Codes**
AYDOĞDU İ., KAYA A.
MATHEMATICAL SCIENCES AND APPLICATIONS E-NOTES, vol.5, pp.69-75, 2017 (Refereed Journals of Other Institutions)
- **Counting the Generator Matrices of Z₂Z₈ Codes**
ŞİAP İ., AYDOĞDU İ.
Mathematical Sciences And Applications E-Notes, vol.1, pp.143-149, 2013 (Refereed Journals of Other Institutions)

Book & Book Chapters

- **in: Coding Theory**
Aydoğdu İ.
Z₂Z₂[u]-Linear and Z₂Z₂[u]-Cyclic Codes, Dr. Sudhakar Radhakrishnan, Prof. Muhammad Sarfraz, Editor, IntechOpen Limited, London, pp.1-12, 2019

Refereed Congress / Symposium Publications in Proceedings

- **Generator and parity-check matrices of Z_p[u^r,u^s]-linear codes**
AYDOĞDU İ.
New Trends in Rings and Modules I, NTRM 2018, Kocaeli, Turkey, 20 Haziran 2018, pp.3
- **Binary Codes Derived from Additive Cyclic Codes over Mixed Alphabets**
Abualrub T., AYDOĞDU İ., Aydin N.
The VI Congress of the Turkic World Mathematical Society, Astana, Kazakhstan, 02 Ekim 2017, pp.347
- **The structure of Z₂Z₄Z₈-codes**
AYDOĞDU İ., GÜRSOYF.
International Conference on Mathematics and Engineering, 10 - 12 Mayıs 2017, pp.1
- **Notes on Z₂Z₂[u]-Cyclic Self-Dual and Quantum Codes**
AYDOĞDU İ., Abualrub T., ŞİAP İ.
7th International Conference on Modeling, Simulation and Applied Optimization, 4 - 06 Nisan 2017, pp.1
- **The structure of one weight linear and cyclic codes over Z₂ x Z₂ uZ₂**
AYDOĞDU İ.
International Congress on Fundamental and Applied Sciences, 22 - 26 Ağustos 2016
- **On Z₂Z₄ xi Skew Cyclic Codes**
AYDOĞDU İ., GÜRSOYF., ŞİAP İ.
ANALYSIS, TOPOLOGY, ALGEBRA: THEORY AND APPLICATIONS (ATA 2016), 06 Temmuz 2016 - 09 Temmuz

2016

- **On ZZ_2 s-additive Cyclic Codes**

AYDOĞDU İ., Abualrub T., Şiap İ.

International Conference on Coding and Cryptography(ICC 2015), Cezayir, 2 - 05 Kasım 2015

- **Self dual $ZZ_2[u]$ -linear Codes**

AYDOĞDU İ., Kaya A.

Noncommutative Rings and Their Applications, IV, Lens, Fransa, 8 - 11 Haziran 2015

- **$ZZ_2[u]$ -constacyclic codes**

AYDOĞDU İ., Abualrub T., Şiap İ.

The Second International Conference on Mathematics and Statistics, Sharjah, Birleşik Arap Emirlikleri, 2 - 05 Nisan 2015

- **Bounds on the minimum distance of Z_pZ_q s additive codes**

AYDOĞDU İ., Şiap İ.

Karatekin Mathematics Days 2014, Çankırı, Türkiye, 11 - 13 Haziran 2014

- **$Z_2(Z_2 uZ_2)$ Linear Cyclic Codes**

ABUALRUB T., ŞİAP İ., AYDOĞDU İ.

International MultiConference of Engineers and Computer Scientists 2014, Hong Kong, 12 - 14 Mart 2014

- **On Z_pZ_q s additive Codes**

AYDOĞDU İ., Şiap İ.

International Workshop on Discrete Structures (IWODS), Islamabad, Pakistan., 5 - 07 Mart 2014

- **On $Z_pZ_q^2$ additive Codes**

AYDOĞDU İ., ŞİAP İ.

The Algerian-Turkish International days on Mathematics, 12 - 14 Eylül 2013

- **The Number of ZZ_2 s Additive Codes and Some Combinatorial Relations**

ŞİAP İ., AYDOĞDU İ., ÖZTAŞ E. S.

2nd International Eurasian Conference on Mathematical Sciences and Applications, 26 - 29 Ağustos 2013

- **Generator and Parity check Matrices of Z_2rZ_2 s additive Codes**

AYDOĞDU İ., ŞİAP İ.

4th International Conference on Matrix Analysis and Applications, ICMAA, (2013), 2 - 05 Temmuz 2013

- **Counting the Generator Matrices of ZZ_2 Codes**

ŞİAP İ., AYDOĞDU İ.

4th International Conference on Matrix Analysis and Applications, ICMAA, (2013), 2 - 05 Temmuz 2013

- **The Structure of ZZ_2 additive cyclic codes**

ABUALRUB T., AYDOĞDU İ., ŞİAP İ.

International Congress in Honour of Professor Hari M. Srivastava, (2012), 23 - 26 Ağustos 2012

- **Some Bounds on ZZ_2 s additive Codes**

AYDOĞDU İ., ŞİAP İ.

10th Math Day,AUS, 14 Nisan 2012

- **The Structure of Z_2rZ_2 s additive Codes**

AYDOĞDU İ., Siap İ.

International Conference On Applied Analysis and Algebra, ICAAA, 29 Haziran - 03 Temmuz 2011

- **On Chaki Pseudo Symmetric Manifolds**

AYDOĞDU İ.

X. Geometri Sempozyumu,Balikesir, Gonen., Turkey, 13 - 16 Haziran 2011

- **On $ZZ_2(u)$ -additive Codes**

AYDOĞDU İ.

International Conference on Computational and Mathematical Methods in Science and Engineering, CMMSE 2013

Scientific Refereeing

FINITE FIELDS AND THEIR APPLICATIONS, SCI Journal, May 2020

IEEE COMMUNICATIONS LETTERS, SCI Journal, May 2020

ADVANCES IN MATHEMATICS OF COMMUNICATIONS, SCI Journal, March 2020

Advances In Mathematics Of Communications, SCI Journal, February 2020
APPLICABLE ALGEBRA IN ENGINEERING COMMUNICATION AND COMPUTING, Journal Indexed in SCIE, January 2020
APPLICABLE ALGEBRA IN ENGINEERING COMMUNICATION AND COMPUTING, SCI Journal, November 2019
Journal of Algebra Combinatorics Discrete Structures and Applications, Other Indexed Journal, October 2019
Journal of Algebra Combinatorics Discrete Structures and Applications, Other Indexed Journal, September 2019
IEEE TRANSACTIONS ON INFORMATION THEORY, SCI Journal, September 2019
An International Journal of Optimization and Control: Theories & Applications, Other Indexed Journal, September 2019
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IEEE Transactions On Information Theory, SCI Journal, June 2019
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CRYPTOGRAPHY AND COMMUNICATIONS-DISCRETE-STRUCTURES BOOLEAN FUNCTIONS AND SEQUENCES, SCI Journal, March 2019
Journal of Algebra Combinatorics Discrete Structures and Applications, Other Indexed Journal, December 2018
FINITE FIELDS AND THEIR APPLICATIONS, SCI Journal, September 2018
COMPUTATIONAL & APPLIED MATHEMATICS, SCI Journal, June 2018
FINITE FIELDS AND THEIR APPLICATIONS, SCI Journal, June 2018
Journal of Algebra Combinatorics Discrete Structures and Applications, Other Indexed Journal, June 2018
Journal of Applied Mathematics and Informatics, Other Indexed Journal, February 2018
IEEE TRANSACTIONS ON INFORMATION THEORY, SCI Journal, January 2018
DESIGNS CODES AND CRYPTOGRAPHY, SCI Journal, January 2017
7th International conference on Modeling, Simulation, and applied Optimization, Conference Paper (Full Text), January 2017
FINITE FIELDS AND THEIR APPLICATIONS, SCI Journal, September 2016
JOURNAL OF APPLIED MATHEMATICS AND COMPUTING, Journal Indexed in ESCI, May 2016

Citations

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