

## **Personal Information**

**Email:** selda.calkavur@kocaeli.edu.tr

## **Education Information**

Doctorate, İstanbul Kültür Üniversitesi, Fen Bilimleri Enstitüsü, Matematik (Dr), Turkey 2006 - 2010

Post Graduate, İstanbul Kültür Üniversitesi, Fen Bilimleri Enstitüsü, Matematik-Bilgisayar (Y) (Tezli), Turkey 2004 - 2006

Under Graduate, Dumlupınar Üniversitesi, Fen-Edebiyat Fakültesi, Matematik Bölümü, Turkey 1996 - 2000

## **Dissertations**

Doctorate, Simetrik dizaynlar, kodlar ve sır paylaşım şemaları üzerine bir çalışma, İstanbul Kültür Üniversitesi, Fen Bilimleri Enstitüsü, Matematik (Dr), 2010

Post Graduate, BCH kodları, İstanbul Kültür Üniversitesi, Fen Bilimleri Enstitüsü, Matematik-Bilgisayar (Y) (Tezli), 2006

## **Research Areas**

Mathematics, Engineering and Technology

## **Academic Titles / Tasks**

Associate Professor, Kocaeli Üniversitesi, Köseköy Meslek Yüksekokulu, Bilgisayar Programcılığı, 2018 - Continues

Assistant Professor, Kocaeli Üniversitesi, Köseköy Meslek Yüksekokulu, 2011 - 2018

## **Professional Experience**

Director of Vocational School, Kocaeli Üniversitesi, Köseköy Meslek Yüksekokulu, 2019 - Continues

Head of Department, Kocaeli Üniversitesi, Köseköy Meslek Yüksekokulu, 2012 - Continues

Assistant Director of Vocational School, Kocaeli Üniversitesi, Köseköy Meslek Yüksekokulu, 2013 - 2019

## **Courses**

Kodlama Teorisi, Post Graduate, 2019 - 2020

Yüksek Lisans Seminer, Post Graduate, 2019 - 2020

Uzmanlık Alan Dersi, Post Graduate, 2019 - 2020

Lineer Cebir, Under Graduate, 2019 - 2020

Matematik II, Under Graduate, 2019 - 2020

Lineer Cebir, Under Graduate, 2019 - 2020

Matematik I, Under Graduate, 2018 - 2019

Lineer Cebir, Under Graduate, 2017 - 2018, 2018 - 2019

Diferensiyel Denklemler, Under Graduate, 2016 - 2017

Diferensiyel Denklemler, Under Graduate, 2016 - 2017

Diferensiyel Denklemler, Under Graduate, 2016 - 2017

Matematik I, Under Graduate, 2015 - 2016

Diferensiyel Denklemler, Under Graduate, 2015 - 2016

Diferensiyel Denklemler, Under Graduate, 2015 - 2016

Matematik I, Under Graduate, 2015 - 2016  
Kesikli Matematik, Under Graduate, 2014 - 2015  
Matematik I, Under Graduate, 2012 - 2013, 2013 - 2014, 2014 - 2015  
Kodlama Teorisi, Post Graduate, 2013 - 2014

## Advising Theses

Çalkavur S., Sır Görüntü Paylaşım Şemaları Üzerine Bir Çalışma, Post Graduate, F.Molla(Student), 2018

## Jury Memberships

Doctoral Examination, Doctoral Examination, Sakarya Üniversitesi, July, 2020  
Appointment Academic Staff, Appointment Academic Staff, Kocaeli Üniversitesi, June, 2020  
Appointment Academic Staff, Appointment Academic Staff, Kocaeli Üniversitesi, September, 2019  
Post Graduate, Post Graduate, Kocaeli Üniversitesi, May, 2018  
Doctoral Examination, Doctoral Examination, Sakarya Üniversitesi, April, 2018  
Post Graduate, Post Graduate, Sakarya Üniversitesi, January, 2018

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

- **A New Secret Sharing Scheme Based on Polynomials over Finite Fields**  
Çalkavur S., Solé P., Bonneze A.  
MATHEMATICS, vol.8, pp.1-5, 2020 (Journal Indexed in SCI)
- **Some multiset-sharing schemes over finite fields,**  
Çalkavur S., Solé P.  
MATHEMATICS, vol.8, pp.272-278, 2020 (Journal Indexed in SCI)
- **A Multiset-Sharing Scheme Based on LCD Codes**  
Alahmadi A., Altassan A., AlKenani A., ÇALKAVUR S., Shoaib H., Sole P.  
MATHEMATICS, vol.8, 2020 (Journal Indexed in SCI)
- **Self-dual codes and orthogonal matrices over large finite fields**  
Shi M., Sok L., Sole P., ÇALKAVUR S.  
FINITE FIELDS AND THEIR APPLICATIONS, vol.54, pp.297-314, 2018 (Journal Indexed in SCI)
- **Multiset-sharing schemes and bounded distance decoding of linear codes**  
ÇALKAVUR S., Sole P.  
INTERNATIONAL JOURNAL OF COMPUTER MATHEMATICS, vol.94, pp.107-114, 2017 (Journal Indexed in SCI)
- **A Study on Minimality of the Codewords in the Dual Code of the Code of a Symmetric  $(v, k, \lambda)$  – Design**  
Çalkavur S.  
Applied Mathematics & Information Sciences, vol.9, pp.1-4, 2015 (Journal Indexed in SCI Expanded)
- **A Secret Sharing Scheme based on Residue Class Ring**  
Çalkavur S.  
Applied Mathematics & Information Sciences, vol.9, pp.1-3, 2015 (Journal Indexed in SCI Expanded)

## Articles Published in Other Journals

- **The Blakley based secret sharing approach**  
Çalkavur S., Molla F.  
Sigma Journal of Engineering and Natural Sciences, vol.37, pp.489-494, 2019 (Journal Indexed in ESCI)
- **Linear Multiset-Sharing Schemes**  
ÇALKAVUR S.  
The Online Journal of Science and Technology, vol.9, pp.209-214, 2019 (Journal Indexed in ESCI)

- **Secret sharing schemes based on extension fields**  
ÇALKAVUR S.  
EUROPEAN JOURNAL OF PURE AND APPLIED MATHEMATICS, vol.11, pp.410-416, 2018 (Journal Indexed in ESCI)
- **A New Approach to Construct Secret Sharing Schemes Based on Field Extensions**  
Molla F., Calkavur S.  
EUROPEAN JOURNAL OF PURE AND APPLIED MATHEMATICS, vol.11, pp.468-475, 2018 (Journal Indexed in ESCI)
- **Some Algebraic (n, n)-Secret Image Sharing Schemes**  
Çalkavur S.  
Applied Mathematical Sciences, vol.11, pp.2807-2815, 2017 (Refereed Journals of Other Institutions)
- **Secret Sharing Schemes and Syndrome Decoding**  
ÇALKAVUR S.  
Journal of Mathematics and Statistical Science, vol.2, pp.741-750, 2016 (Refereed Journals of Other Institutions)
- **Some Secret Sharing Schemes Based on the Finite Fields**  
ÇALKAVUR S.  
Computer Technology and Application, vol.7, pp.269-272, 2016 (Refereed Journals of Other Institutions)
- **A New Method to Construct Secret Sharing Schemes Based on Linear Codes**  
ÇALKAVUR S.  
Journal of Computer Technology and Application, vol.5, 2015 (Refereed Journals of Other Institutions)
- **Secret Sharing Schemes Based on the Dual Code of the Code of a Symmetric , (v k, λ) – Design and Minimal Access Sets**  
Çalkavur S.  
Journal of Computer Technology and Application,, vol.2, pp.1-7, 2015 (Refereed Journals of Other Institutions)
- **A Secret Sharing Scheme Based on a Symmetric v k lambda Design**  
ÇALKAVUR S.  
International Journal of Engineering Science and Innovative Technology (IJESIT), vol.3, pp.512-514, 2014 (Refereed Journals of Other Institutions)
- **A Secret Sharing Scheme Based on the Cyclic Groups**  
ÇALKAVUR S.  
International Journal of Engineering Science and Innovative Technology (IJESIT), vol.3, pp.320-323, 2014 (Refereed Journals of Other Institutions)
- **The Relation Between the Secret Sharing Schemes Based on Linear Codes and Syndrome Decoding**  
Çalkavur S.  
Pensee Journal, vol.76, pp.292-295, 2014 (Refereed Journals of Other Institutions)
- **Binary Cyclic Codes and Minimal Codewords**  
Çalkavur S.  
Computer Technology and Application, vol.4, pp.486-489, 2013 (Refereed Journals of Other Institutions)
- **A Relationship Between the Weight Enumerators and Minimal Codewords**  
Çalkavur S.  
Journal of Mathematics and System Science, vol.3, pp.409-411, 2013 (Refereed Journals of Other Institutions)
- **A Study on Minimal Codewords in the Hamming Codes**  
Çalkavur S.  
Journal of Mathematics and System Science, vol.3, pp.279-281, 2013 (Refereed Journals of Other Institutions)

## Refereed Congress / Symposium Publications in Proceedings

- **Multisecret-Sharing Schemes with Symmetric Designs**  
Çalkavur S.  
International Science and Technology Conference, Praha, Czech Republic, 2 - 05 Temmuz 2019
- **Linear Multisecret-Sharing Schemes**  
ÇALKAVUR S.  
International Science and Technology Conference, Paris, France, 18 - 21 Temmuz 2018

- **A Study on Multisecret-Sharing Schemes**

ÇALKAVUR S.

5th International Conference on Pure and Applied, Sciences:Sustainable, Dubai, United Arab Emirates, 28 - 30 Haziran 2018

- **Secret Sharing Schemes Based on Extension Fields**

ÇALKAVUR S.

IECMSA 2017 (International Eurasian Conference on Mathematical Sciences and Applications, Budapest, Hungary, 15 - 18 Ağustos 2017

- **Secret Sharing Schemes and Syndrome Decoding**

Çalkavur S.

The 5th International Conference on Control and Optimization with Industrial Applications, Baku, Azerbaijan, 27 - 29 Ağustos 2015, vol.5, pp.400

- **Some algebraic  $n \times n$  threshold schemes**

ÇALKAVUR S., PATRICK S.

Sixth International Conference on Modeling, Simulation and Applied Optimization (ICMSAO'15), İstanbul, Turkey, 27 - 29 Mayıs 2015

- **A New Method to Construct Secret Sharing Schemes Based on Linear Codes**

ÇALKAVUR S.

Third International Eurasian Conference on Mathematical Sciences and Applications (IECMSA 2014), VİYANA, Austria, 25 - 28 Ağustos 2014, vol.3, pp.297

- **A Study on the Number of Minimal Access Set in the Secret Sharing Scheme Based on the Dual Code of the Code of a Symmetric  $(v, k, \lambda)$  – Design**

Çalkavur S., Balkanay E.

Second International Eurasian Conference on Mathematical Sciences and Applications (IECMSA 2013), Sarajevo, Bosnia And Herzegovina, 26 - 29 Ağustos 2013

- **A Study on Minimal Codewords of the Codes Associated with the Symmetric  $v \times k \lambda$  Designs**

Balkanay E., Çalkavur S.

First International Eurasian Conference on Mathematical Sciences and Applications, Priştine, Kosova, 3 - 07 Eylül 2012

## Memberships / Tasks in Scientific Organizations

5) International Engineering and Technology Institute (IETI), Honorary Member, 2015 - Continues, Turkey

Türk Matematik Derneği, Member, 2006 - Continues, Turkey

International Transactions on InformationScience (IEICE), Member, 2015 - 2017, United States Of America

## Scientific Refereeing

TURKISH JOURNAL OF MATHEMATICS, SCI Journal, May 2020

TURKISH JOURNAL OF ELECTRICAL ENGINEERING AND COMPUTER SCIENCES, SCI Journal, February 2020

European Journal of Pure and Applied Mathematics, Journal Indexed in ESCI, October 2018

SIGNAL PROCESSING, SCI Journal, May 2018

Sigma Journal of Engineering and Natural Sciences, Journal Indexed in ESCI, June 2016

APPLIED MATHEMATICS & INFORMATION SCIENCES, Journal Indexed in SCIE, October 2015

Journal of Computer Technology and Applications, Other Indexed Journal, November 2013

## Tasks In Event Organizations

Çalkavur S., 1) ISAS 2018 (International Symposium on Recent Advances in Vocational Sciences), Scientific Congress, Antalya, Turkey, Nisan 2018

## Citations

Total Citations (WOS):11

h-index (WOS):2

## Awards

Çalkavur S., Akademik Teşvik, Yök, February 2018

Çalkavur S., Akademik Teşvik, Yök, February 2016

Çalkavur S., Teşekkür Belgesi, Milli Eğitim Bakanlığı, September 2001