



**DR. ÖĞR. ECEM ACAR  
ÜYESİ**

**Kişisel Bilgiler**

**Eposta:** karakusecem@harran.edu.tr

**Birimi :** Matematik Eğitimi

**Dahili :** 1346

**Makaleler (YOKSIS)**

- 1 2D triangular von Neumann cellular automata with periodic boundary**  
UĞUZ Selman, ACAR ECEM, REDJEPOV Shovkat  
International Journal of Bifurcation and Chaos, <https://doi.org/10.1142/S021812741950029>
- 2 A note on approximation of nonlinear Baskakov operators based on q-integers**  
ACAR ECEM  
Filomat, <https://www.pmf.ni.ac.rs/filomat-content/2024/38-16/FILOMAT%2038-16.html>
- 3 Approximation by Composition of q-Szasz-Mirakyan and q-Durrmeyer-Chlodowsky Operators**  
İZGİ AYDIN, ACAR ECEM  
Turk. J. Math. Comput. Sci,
- 4 Approximation by nonlinear Bernstein-Chlodowsky operators of Kantorovich type**  
ACAR ECEM, KIRCI SERENBAY SEVİLAY, Özalp Güller Özge  
Filomat, <https://doi.org/10.2298/FIL2314621A>
- 5 Approximation by nonlinear Meyer-König and Zeller operators based on q-integers**  
ACAR ECEM, Özalp Güller Özge, KIRCI SERENBAY SEVİLAY  
International Journal of Mathematics and Computer in Engineering, <https://sciendo.com/article/10.2478/ijmce-2024-0016>
- 6 Approximation by Nonlinear q-Bernstein-Chlodowsky Operators**  
ACAR ECEM, KIRCI SERENBAY SEVİLAY  
TWMS J. App. and Eng. Math., <https://jaem.isikun.edu.tr/web/index.php/current/1186-jaem-vo-14-no-1-2025>
- 7 Approximation for the Bernstein Operator of Max-Product Kind in Symmetric Range**  
ACAR ECEM, KARAHAN DÖNE, KIRCI SERENBAY SEVİLAY  
Khayyam Journal of Mathematics, 10.22034/kjm.2020.109823

- 8 **Approximation properties of king type Szász-Mirakyan and Durrmeyer-Chlodowsky operators**  
ACAR ECEM, KIRCI SERENBAY SEVİLAY, İZGİ AYDIN  
Nonlinear Studies,
- 9 **Approximation Properties of The Nonlinear Jain Operators**  
KIRCI SERENBAY SEVİLAY, DALMANOĞLU ÖZGE, ACAR ECEM  
Mathematical Sciences and Applications E-Notes,<https://dergipark.org.tr/tr/download/article-file/1928986>
- 10 **Approximation properties of the univariate and bivariate Bernstein-Stancu operators of max-product kind**  
Yeşilnacar Binmar Ayşe Kübra Yeşilnacar Binmar,ACAR ECEM,KIRCI SERENBAY SEVİLAY  
Commun.Fac.Sci.Univ.Ank.Ser. A1 Math.  
Stat.,<https://dergipark.org.tr/en/pub/cfsuasmas/issue/86919/1452069>
- 11 **Characterization of 2D Cellular Automata With Periodic Boundary**  
ACAR ECEM,UĞUZ Selman,akın hasan  
Acta Physica Polonica A,
- 12 **Fuzzy Logic Control Automation for Traffic Signalization System**  
ACAR ECEM, KIRCI SERENBAY SEVİLAY  
European Journal of Science and Technology,<http://dx.doi.org/10.31590/ejosat.1012557>
- 13 **GENELLEŞTİRİLMİŞ TOPOLOJİK UZAYLAR**  
ACAR ECEM,Kuyucu Fikret  
Ç.Ü. Fen ve Mühendislik Bilimleri Dergisi,
- 14 **Max-product for the q-Bernstein-Chlodowsky operators**  
Özalp Güller Özge, Cattani Carlo, ACAR ECEM, KIRCI SERENBAY SEVİLAY  
Filomat,<https://journal.pmf.ni.ac.rs/filomat/index.php/filomat/article/view/17938>
- 15 **Nonlinear Approximation by q-Favard-Szasz-Mirakjan Operators of Max-Product Kind**  
KARAHAN DİNSEVER DÖNE, ACAR ECEM  
Communications in Advanced Mathematical Sciences,<http://dx.doi.org/10.33434/cams.1242905>
- 16 **Nonlinear Bivariate Bernstein-Chlodowsky Operators of Maximum Product Type**  
Özalp Güller Özge, ACAR ECEM, KIRCI SERENBAY SEVİLAY  
Journal of Mathematics,<http://dx.doi.org/10.1155/2022/4742433>
- 17 **NOTE ON APPROXIMATION OF TRUNCATED BASKAKOV OPERATORS**  
ACAR ECEM,KIRCI SERENBAY SEVİLAY,MAJEED Saleem Yaseen  
Proceedings of International Mathematical Sciences,<https://dergipark.org.tr/tr/pub/pims/issue/85658>
- 18 **Note On Jakimovski-Leviatan Operators Preserving  $e-x$**   
ACAR ECEM,İZGİ AYDIN,KIRCI SERENBAY SEVİLAY  
Applied Mathematics and Nonlinear  
Sciences,<https://content.sciendo.com/view/journals/amns/4/2/article-p543.xml>
- 19 **ON APPROXIMATION BY GENERALIZED BERNSTEIN-DURRMEYER OPERATORS**

- 19 ACAR ECEM, İZGİ AYDIN  
J. Adv. Math. Stud.,
- 20 **On approximation properties of a generalization of Bernstein polynomials in symmetric range**  
ACAR ECEM, İZGİ AYDIN  
New Trends in Mathematical Science,<http://dx.doi.org/10.20852/ntmsci.2021.414>
- 21 **Polynomial Weighted Approximation by Szasz-Mirakyan Operators of Max-product Type**  
ACAR ECEM, Holhoş Adrian, KIRCI SERENBAY SEVİLAY  
Kragujevac Journal of Mathematics,[https://imi.pmf.kg.ac.rs/kjm/pdf/accepted-finished/4b9ccf328a08222587f008dbaba45232\\_2536\\_05112022\\_012230/kjm\\_49\\_3-3.pdf](https://imi.pmf.kg.ac.rs/kjm/pdf/accepted-finished/4b9ccf328a08222587f008dbaba45232_2536_05112022_012230/kjm_49_3-3.pdf)
- 22 **Reversibility Algorithm for 2D Cellular Automata with Reflective Condition**  
REDJEPOV Shovkat,ACAR ECEM,UĞUZ Selman  
ACTA PHYSICA POLONICA A,<http://przyrbwn.icm.edu.pl/APP/PDF/134/app134z1p118.pdf>
- 23 **Some new theorems on the approximation of maximum product type of multivariate nonlinear Bernstein– Chlodowsky operators**  
Özalp Güller Özge, ACAR ECEM, KIRCI SERENBAY SEVİLAY  
Advances In Operator Theory,[https://link.springer.com/epdf/10.1007/s43036-022-00191-4?sharing\\_token=kNiWNgxdoINa-97-3fm3S\\_e4RwlQNchNByi7wbcMAY4v-uuV92f96XPituyLNG2Dft5dcP1SfOtU6zMTCJpUUkBwv2fb5AmQDtb9ab7spJIBNRg6tHOI7ATfqwCeRzxY6Sre4-yUnggvc1lhXXo-jMBYK9BWVJisbD0ulgA3c%3D](https://link.springer.com/epdf/10.1007/s43036-022-00191-4?sharing_token=kNiWNgxdoINa-97-3fm3S_e4RwlQNchNByi7wbcMAY4v-uuV92f96XPituyLNG2Dft5dcP1SfOtU6zMTCJpUUkBwv2fb5AmQDtb9ab7spJIBNRg6tHOI7ATfqwCeRzxY6Sre4-yUnggvc1lhXXo-jMBYK9BWVJisbD0ulgA3c%3D)
- 24 **Structure and Reversibility of 2D von Neumann Cellular Automata Over Triangular Lattice**  
UĞUZ Selman,REDJEPOV Shovkat,ACAR ECEM,akın hasan  
International Journal of Bifurcation and Chaos,<http://www.worldscientific.com/doi/abs/10.1142/S0218127417500833>
- 25 **The Approximation of Bivariate Generalized Bernstein-Durrmeyer Type GBS Operators**  
ACAR ECEM, İZGİ AYDIN  
International Journal of Maps in Mathematics,<http://www.journalmim.com/index.php/journalMIM/navigationMenu/view/inpress>
- 26 **Three States Hybrid Cellular Automata with Periodic Boundary Condition**  
UĞUZ Selman,ACAR ECEM,REDJEPOV Shovkat  
MALAYSIAN JOURNAL OF MATHEMATICAL SCIENCES,

## Bildiriler (YOKSIS)

- 1 **A Note on Approximation of Nonlinear Baskakov operators Based on q- integers**  
ACAR ECEM  
Seventh International Conference of Mathematical Sciences (ICMS 2023) ,  
<https://www.maltepe.edu.tr/icms23/en/proceedings>
- 2 **AN APPROACH AND APPLICATION FOR AUTOMATION WITH FUZZY LOGIC**  
ACAR ECEM, KIRCI SERENBAY SEVİLAY  
1st INTERNATIONAL SYMPOSIUM ON RECENT ADVANCES IN FUNDAMENTAL AND APPLIED SCIENCES (ISFAS-2021) , <https://ekitap.atauni.edu.tr/index.php/product/1st-international-symposium-on-recent-advances-in-fundamental-and-applied-sciences-isfas-2021-abstract-and-full-text-symposium-book/>

- 2
- 3 **Approximation by Composition of Q-Szasz-Mirakyan and Q-Durrmeyer-Chlodowsky Operators**  
KARAKUŞ ECEM, İZGİ AYDIN, KARAHAN DÖNE  
International Conference on Mathematics and Mathematics Education/ ŞANLIURFA, TURKEY ,
- 4 **Approximation by Truncated Bivariate Favard-Szász-Mirakjan Operator of Max-product Kind**  
ACAR ECEM  
6th International Conference on Approximation: Theory, Methods and Applications ,  
<https://conference.unisalento.it/ocs/index.php/atma2024/atma2024/>
- 5 **Approximation of Max-Product Truncated Baskakov Operators By Fuzzy Numbers**  
ACAR ECEM, KIRCI SERENBAY SEVİLAY  
9th International IFS and Contemporary Mathematics and Engineering Conference ,  
[https://ifscm.com/?page\\_id=324](https://ifscm.com/?page_id=324)
- 6 **Approximation Properties of King Type Szasz-Mirakyan and Durrmeyer-Chlodowsky Operators**  
ACAR ECEM, İZGİ AYDIN  
7th International Conference on Applied Analysis and Mathematical Modeling ,
- 7 **Characterization and Reversibility of 2D Cellular Automata With Reflective Boundary**  
ACAR ECEM, UĞUZ Selman, KOÇ Rahime  
2th International Conference on Analysis and its Applications ,
- 8 **Characterization of Two Dimensional Hybrid Cellular Automata With Null Boundary Condition**  
ACAR ECEM, UĞUZ Selman  
6th International Advances in Applied Physics and Materials Science Congress Exhibition ,
- 9 **FUZZY LOGIC CONTROL AUTOMATION FOR TRAFFIC SIGNALIZATION SYSTEM**  
ACAR ECEM, KIRCI SERENBAY SEVİLAY  
1st International Conference on Applied Engineering and Natural Sciences ,  
<https://drive.google.com/file/d/1ZYtf6Db1JezKksVtqHqBKID-Mv9BtxU/view?usp=sharing>
- 10 **On Approximation Theorems for  $(p,q)$ -Bernstein Operators**  
KARAHAN DÖNE, İZGİ AYDIN, KARAKUŞ ECEM  
International Conference on Mathematics and Mathematics Education/ŞANLIURFA, TURKEY ,
- 11 **On The Approximation By Nonlinear Operators Of Max-Product Kind**  
KIRCI SERENBAY SEVİLAY, ACAR ECEM  
8th International Conference on Computational Mathematics and Engineering Sciences ,
- 12 **Quantitative estimates by linear and non-linear Bernstein-Chlodowsky-Kantorovich Operators**  
ACAR ECEM, KIRCI SERENBAY SEVİLAY  
ICAIAME 2024 ,
- 13 **Sabit Sınır Koşulunda İki Boyutlu Hibrid Hücresel Dönüşümlerin Karakterizasyonu**  
ACAR ECEM, UĞUZ Selman  
11. Ankara Matematik Günleri ,

