



Prof. Dr. Soley Ersoy

Department of Mathematics, Faculty of Arts and Sciences,
Sakarya University
54050 Serdivan, Sakarya, Türkiye
E-mail: sersoy@sakarya.edu.tr
Phone (Work): +90 264 295 5996 | Mobile: +90 505 647 0785

Education

Ph.D. in Mathematics — Sakarya University, Institute of Science (16 May 2007)

Thesis: Sectional Curvatures of Generalized Ruled Surfaces in n-Dimensional Minkowski Space

Advisor: Prof. Murat Tosun

M.Sc. in Mathematics — Sakarya University, Institute of Science (26 May 2004)

Thesis: Blaschke Invariants of Generalized Surfaces under Symmetric Homothetic Motions

Advisor: Prof. Murat Tosun

B.Sc. in Mathematics Education — Dokuz Eylül University, Buca Faculty of Education (12 June 2000)

Mathematics Teaching Program (Evening Education)

Academic Positions

- Professor, Department of Topology, Sakarya University (2018–Present)
- Associate Professor, Department of Topology, Sakarya University (2012–2018)
- Assistant Professor, Department of Topology, Sakarya University (2007–2012)
- Research Assistant, Department of Mathematics, Sakarya University (2002–2007)

Administrative Positions

Head of Topology Division, Department of Mathematics, Sakarya University (2010–2016)

Research Projects

- Sakarya Science Street Project, TÜBİTAK (2018–2019), Workshop Leader
- Introduction to Soft Cone Metric Spaces, Scientific Research Project Supported by Higher Education Institutions (2016–2017)

Supervised Theses

Master Thesis

1. KIVCI EMEL, (2025). Neighborhood Groups, Sakarya University, Institute of Science, Department of Mathematics (Ongoing)

2. KOCA SEVAL, (2023). Pairwise Compactness in Bi-Isotonic Spaces, Sakarya University, Institute of Science, Department of Mathematics (Completed)
3. UYSAL NASİPHAN, (2018). Bi-isotonic spaces and separation axioms, Sakarya University, Institute of Science, Department of Mathematics (Completed)
4. TÜRKÖGLÜ AYŞENUR, (2017). Antispaces of strong k-spaces and related transformations, Sakarya University, Institute of Science, Department of Mathematics (Completed)
5. POLAT HİLAL, (2017). The de Groot dual of the time scale, Sakarya University, Institute of Science, Department of Mathematics (Completed)
6. BİLGİN MERVE, (2015). Generalized topologies of Minkowski space, Sakarya University, Institute of Science, Department of Mathematics (Completed)
7. İNCE İBRAHİM, (2015). Strong k-spaces, Sakarya University, Institute of Science, Department of Mathematics (Completed)
8. EREN KEMAL, (2012). Timelike tangent developable surfaces and Bonnet surfaces, Sakarya University, Institute of Science, Department of Mathematics (Completed)
9. BAYRAK NURTEN, (2011). Lorentzian Bobillier formula, Sakarya University, Institute of Science, Department of Mathematics (Completed)
10. İNALCIK ABDULLAH, (2010). Bertrand curves in five-dimensional spaces, Sakarya University, Institute of Science, Department of Mathematics (Completed)

PhD Thesis

1. PARLATIÇI HATİCE, (2023). Fundamental concepts of disoriented knot theory, Sakarya University, Institute of Science, Department of Mathematics (Completed)
2. İNCE İBRAHİM, (2022). Generalized fuzzy Mandelbrot sets, Sakarya University, Institute of Science, Department of Mathematics (Completed)
3. BİLGİN MERVE, (2020). Topological bihyperbolic modules, Sakarya University, Institute of Science, Department of Mathematics (Completed)
4. EREN KEMAL, (2019). Burmester theory in the Lorentz plane, Sakarya University, Institute of Science, Department of Mathematics (Completed)
5. İNALCIK ABDULLAH, (2014). Gaussian equations of timelike surfaces in 3-dimensional Lorentzian space, Sakarya University, Institute of Science, Department of Mathematics (Completed)
6. AKYİĞİT MAHMUT, (2011). $E_v^{(n+1)}$, Section curvatures of generalized semi-ruled surfaces in $(n+1)$ -dimensional semi-Euclidean space, Sakarya University->Institute of Science->Mathematics Department (Completed)

Selected Publications

1. EREN KEMAL, ERSOY SOLEY, STANKOVIC MICA (2025). Bertrand-like curves in Euclidean 3-space. FILOMAT, 39(22), 7697-7705., Doi: 10.2298/FIL2522697E (Publication No: 9763933)

2. EREN KEMAL, ERSOY SOLEY, KHAN MOHAMMAD NAZRUL ISLAM (2025). Novel theorems on constant angle ruled surfaces with Sasai's interpretation. AIMS MATHEMATICS, 10(4), 8364-8381., Doi: 10.3934/math.2025385 (Publication No: 9551871)
3. EREN KEMAL, ERSOY SOLEY, KHAN MOHAMMAD NAZRUL ISLAM (2025). Simultaneous characterizations of alternative partner-ruled surfaces. AIMS MATHEMATICS, 10(4), 8891-8906., Doi: 10.3934/math.2025407 (Publication No: 9565991)
4. ERSOY SOLEY, KOCA SEVAL (2025). Pairwise compactness in bi-isotonic spaces. INTERNATIONAL JOURNAL OF NONLINEAR ANALYSIS AND APPLICATIONS, 16(6), 23-33., Doi: 10.22075/ijnaa.2024.32706.4867 (Publication No: 9367635)
5. ÇALIŞKAN ABDUSSAMET, EREN KEMAL, ERSOY SOLEY (2025). Dual magnetic curves and flux ruled surfaces. INTERNATIONAL JOURNAL OF GEOMETRIC METHODS IN MODERN PHYSICS, 22(02), Doi: 10.1142/S0219887824502736 (Publication No: 9101597)
6. LI YANLIN, EREN KEMAL, ERSOY SOLEY, SAVIC ANA (2024). Modified Sweeping Surfaces in Euclidean 3-Space. AXIOMS, 13(11), 800, Doi: 10.3390/axioms13110800 (Publication No: 9229251)
7. ERSOY SOLEY, EREN KEMAL, PENNESTRI ETTORE (2024). Application of instantaneous invariants to Cardan positions for two parameters complex plane motion. MECHANISM AND MACHINE THEORY, 203, 105798, Doi: 10.1016/j.mechmachtheory.2024.105798 (Publication No: 9102975)
8. EREN KEMAL, ERSOY SOLEY (2024). Hasimoto Surfaces with Pointwise 1-Type Gauss Map. JOURNAL OF SCIENCE AND ARTS, 24(3), 545-550., Doi: 10.46939/J.Sci.Arts-24.3-a08 (Publication No: 9177411)
9. ERSOY SOLEY, EREN KEMAL, ÇALIŞKAN ABDUSSAMET (2024). Characterizations of Spatial Quaternionic Partner-Ruled Surfaces. AXIOMS, 13, 1-14., Doi: 10.3390/axioms13090612 (Publication No: 9126443)
10. EREN KEMAL, ERSOY SOLEY (2024). On Characterization of Smarandache Curves Constructed by Modified Orthogonal Frame. MATHEMATICAL SCIENCES AND APPLICATIONS E-NOTES, 12(3), 101112., Doi: 10.36753/mathenot.1409228 (Publication No: 9347738)
11. SAVIC ANA, EREN KEMAL, ERSOY SOLEY, BALTIC VLADIMIR (2024). Alternative View of Inextensible Flows of Curves and Ruled Surfaces via Alternative Frame. MATHEMATICS, 12(13), 2015, Doi: 10.3390/math12132015 (Publication No: 9034142)
12. BALTIC VLADIMIR, EREN KEMAL, SAVIC ANA, ERSOY SOLEY (2024). Constant Angle Ruled Surfaces with a Pointwise 1-Type Gauss Map. MATHEMATICS, 12(12), Doi: 10.3390/math12121861 (Publication No: 9011337)
13. POPOVIC NIKOLA, ERSOY SOLEY, İNCE İBRAHİM, SAVIC ANA, BALTIC VLADIMIR (2024). Fuzzy Mandelbrot Set and Its Perturbations by Dynamical Noises. FRACTAL AND FRACTIONAL, 8(3), 158, Doi: 10.3390/fractalfract8030158 (Publication No: 8937641)
14. EREN KEMAL, ERSOY SOLEY, PENNESTRI ETTORE (2024). Instantaneous kinematics of a planar two-link open chain in complex plane. MECHANISM AND MACHINE THEORY, 191, 105512, Doi: 10.1016/j.mechmachtheory.2023.105512 (Publication No: 8884419)

15. EREN KEMAL, ERSOY SOLEY, STANKOVIC MICA (2024). On constant angle surfaces constructed by polynomial space curves with Frenet-like curve frame. *FILOMAT*, 38(26), 9055-9065., Doi: 10.2298/FIL2426055E (Publication No: 9526340)
16. EREN KEMAL, MYRZAKULOVA ZHAIDARY, ERSOY SOLEY, MYRZAKULOV RATBAY (2024). Solutions of localized induction equation associated with involute–evolute curve pair. *SOFT COMPUTING*, 28(1), 105-117., Doi: 10.1007/s00500-023-09375-3 (Publication No: 8689576)
17. EREN KEMAL, ERSOY SOLEY (2023). Complex coupled dispersionless equations in Minkowski 3space. *COMPLEX VARIABLES AND ELLIPTIC EQUATIONS*, 68(11), 1984-1999., Doi: 10.1080/17476933.2022.2097665 (Publication No: 7754145)
18. LI YANLIN, EREN KEMAL, ERSOY SOLEY (2023). On simultaneous characterizations of partner-ruled surfaces in Minkowski 3-space. *AIMS MATHEMATICS*, 8(9), 18, Doi: 10.3934/math.20231135 (Publication No: 8408349)
19. İNCE İBRAHİM, ERSOY SOLEY (2023). Generalized fuzzy Mandelbrot and Mandelbar sets. *COMMUNICATIONS IN NONLINEAR SCIENCE AND NUMERICAL SIMULATION*, 118, 107045, Doi: 10.1016/j.cnsns.2022.107045 (Publication No: 7974197)
20. LI YANLIN, EREN KEMAL, AYVACI KEBİRE HİLAL, ERSOY SOLEY (2023). The developable surfaces with pointwise 1-type Gauss map of Frenet-type framed base curves in Euclidean 3-space. *AIMS MATHEMATICS*, 8(1), 2226-2239., Doi: 10.3934/math.2023115 (Publication No: 7911129)
21. POPOVIC NIKOLA, EREN KEMAL, SAVIC ANA, ERSOY SOLEY (2023). Framed Curve Families Induced by Real and Complex Coupled Dispersionless-Type Equations. *MATHEMATICS*, 11(16), 13, Doi: 10.3390/math11163531 (Publication No: 8440176)
22. EREN KEMAL, YESMAKHANOV KURALAY, ERSOY SOLEY, MYRZAKULOV RATBAY (2022). Involute evolute curve family induced by the coupled dispersionless equations. *OPTIK*, 270, 169915, Doi: 10.1016/j.ijleo.2022.169915 (Publication No: 7784917)
23. SAVIC ANA, BİLGİN MERVE, ERSOY SOLEY, PAUNOVIC MARIJA (2022). Topologies of Bihyperbolic Numbers. *MATHEMATICS*, 10(22), 15, Doi: 10.3390/math10224224 (Publication No: 7924080)
24. İNCE İBRAHİM, ERSOY SOLEY (2022). Fuzzy Mandelbrot sets. *FUZZY SETS AND SYSTEMS*, 435, 11-88., Doi: 10.1016/j.fss.2021.03.007 (Publication No: 7149073)
25. ERSOY SOLEY, ACET AHMET ALTAY (2022). Pairwise Connectedness in Bi-Isotonic Spaces. *Palestine Journal of Mathematics*, 11(2), 342-351. (Publication No: 7708359)
26. LI YANLIN, EREN KEMAL, ERSOY SOLEY, AYVACI KEBİRE HİLAL (2022). Simultaneous characterizations of partner ruled surfaces using Flc frame. *AIMS MATHEMATICS*, 7(11), 17-20229., Doi: 10.3934/math.20221106 (Publication No: 7799956)
27. EREN KEMAL, ERSOY SOLEY (2022). Characterizations of Tzitzeica curves using Bishop frames. *MATHEMATICAL METHODS IN THE APPLIED SCIENCES*, 45(18), 14-12059., Doi: 10.1002/mma.7483 (Publication No: 7204690)
28. BİLGİN MERVE, ERSOY SOLEY (2021). Topological Bihyperbolic Modules. *Communications in Advanced Mathematical Sciences*, 4(3), 115-129., Doi: 10.33434/cams.985772 (Publication No: 7253686)
29. ERSOY SOLEY, EROL NASIPHAN (2020). Separation Axioms in Bi-Isotonic Spaces. *Scientiae Mathematicae Japonicae*, 83(3), 225-240., Doi: 10.32219/isms.83.3_225 (Publication No: 5901429)

30. BİLGİN MERVE, ERSOY SOLEY (2020). Algebraic Properties of Bihyperbolic Numbers. *Advances in Applied Clifford Algebras*, 30(1), Doi: 10.1007/s00006-019-1036-2 (Publication No: 6046109)
31. EREN KEMAL, ERSOY SOLEY (2019). A Comparison of Original and Inverse Motion in Minkowski Plane. *Applications and Applied Mathematics: An International Journal (AAM)*, 5, 56-67. (Publication No: 5222280)
32. ERİŞİR TÜLAY, GÜNGÖR MEHMET ALİ, ERSOY SOLEY (2019). On the Construction of Generalized Bobillier Formula. *Communications Faculty of Science University of Ankara Series A1 Mathematics and Statistics*, 68(1), 111-124., Doi: 10.31801/cfsuasmas.443657 (Publication No: 4265856)
33. İNCE İBRAHİM, ERSOY SOLEY (2018). On Sequential Topological Groups. *J. Korean Soc. Math. Educ. Ser. B: Pure Appl. Math.*, 25(4), 243-252., Doi: 10.7468/jksmeb.2018.25.4.243 (Publication No: 4620444)
34. EREN KEMAL, ERSOY SOLEY (2018). Burmester theory in Cayley–Klein planes with affine base. *Journal of Geometry*, 109(3), Doi: 10.1007/s00022-018-0450-2 (Publication No: 4413797)
35. EREN KEMAL, ERSOY SOLEY (2018). Cardan Positions in the Lorentzian Plane. *Honam Mathematical Journal*, 40(1), 187-198., Doi: 10.5831/HMJ.2018.40.1.187 (Publication No: 4334206)
36. DÜNDAR FURKAN SEMİH, ERSOY SOLEY, Pereira Nuno T. Sa (2018). Bobillier Formula for the Elliptical Harmonic Motion. *Analele Universitatii "Ovidius" Constanta - Seria Matematica*, 26(1), 103-110., Doi: 10.2478/auom-2018-0006 (Publication No: 4334209)
37. ERSOY SOLEY, İNCE İBRAHİM, BİLGİN MERVE (2017). Strongly k-spaces. *Bulletin of the Iranian Mathematical Society*, 43(3), 727-734. (Publication No: 3623436)
38. ŞİMŞEK DAĞISTAN, ALTINTAŞ İSMET, ERSOY SOLEY, ABDULLAYEV FAHREDDİN, İMAŞ KIZI MEERİM (2017). An Introduction to Soft Cone Metric Spaces and Some Fixed Point Theorems. *MANAS Journal of Engineering*, 5(3), 69-89. (Publication No: 7405779)
39. ERSOY SOLEY, TÜRKOĞLU AYŞENUR, POLAT HİLAL (2017). Anti-Spaces of Strongly k-Spaces. *Analele Universitatii din Oradea - Fascicola Matematica*, 24(2), 29-35. (Publication No: 3885778)
40. İNALCIK ABDULLAH, ERSOY SOLEY, STACHEL HELLMUTH (2017). On instantaneous invariants of hyperbolic planes. *MATHEMATICS AND MECHANICS OF SOLIDS*, 22(5), 1047-1057., Doi: 10.1177/1081286515616283 (Publication No: 3558074)
41. EREN KEMAL, ERSOY SOLEY (2016). Revisiting Burmester theory with complex forms of Bottema's instantaneous invariants. *COMPLEX VARIABLES AND ELLIPTIC EQUATIONS*, 62(4), 431-437., Doi: 10.1080/17476933.2016.1224863 (Publication No: 3558063)
42. İNALCIK ABDULLAH, ERSOY SOLEY (2016). Non-Null Helicoidal Surfaces As Non-Null Bonnet Surfaces. *Matematicki Vesnik*, 68(3), 182-191. (Publication No: 3885039)
43. PEREIRA NUNO SÁ, ERSOY SOLEY (2016). Elliptical Harmonic Motion and Euler Savary Formula. *Advances in Applied Clifford Algebras*, 26(2), 731-755., Doi: 10.1007/s00006-015-0609-y (Publication No: 1698274)
44. ERSOY SOLEY, BİLGİN MERVE (2016). Generalized connectedness and separation axioms of Minkowski space. *Creative Mathematics and Informatics*, 25(1), 51-55., Doi: 10.37193/CMI.2016.01.06 (Publication No: 2600543)

45. ERSOY SOLEY, KEMAL EREN (2016). Timelike Tangent Developable Surfaces and Bonnet Surfaces. *Abstract and Applied Analysis*, 2016, 1-7., Doi: 10.1155/2016/6837543 (Publication No: 2565549)
46. AKYİĞİT MAHMUT, ERSOY SOLEY, TOSUN MURAT (2015). Beltrami Euler Formulas of Generalized Semi Ruled Surface in Semi Euclidean Space. *International Electronic Journal of Geometry (IEJG)*, 8(1), 105-115. (Publication No: 2004436)
47. İNALCIK ABDULLAH, ERSOY SOLEY (2015). Ball and Burmester points in Lorentzian sphere kinematics. *Kuwait Journal of Science*, 42(3), 50-63. (Publication No: 1698259)
48. ERSOY SOLEY, BiLGİN MERVE, İNCE İBRAHİM (2015). Generalized Open Sets of Minkowski Space. *Mathematica Moravica*, 19(1), 49-56. (Publication No: 2004708)
49. İNALCIK ABDULLAH, ERSOY SOLEY (2015). Ball and Burmester points in Lorentzian sphere kinematics. *Kuwait Journal of Science*, 42(3), 50-63. (Publication No: 2640305)
50. YILDIZ ÖNDER GÖKMEN, ERSOY SOLEY, MASAL MELEK (2014). A Note on Inextensible Flows of Curves on Oriented Surface. *CUBO A Mathematical Journal*, 16(3), 11-19. (Publication No: 2110906)
51. AKYİĞİT MAHMUT, ERSOY SOLEY, TOSUN MURAT (2014). Beltrami Meusnier Formulas of Generalized Semi Ruled Surface in Semi-Euclidean Space. *Kuwait Journal of Science*, 41(2), 65-83., Doi: <http://dx.doi.org/10.1016/j.asej.2013.09.006> (Publication No: 580173)
52. MASAL MELEK, ERSOY SOLEY, GÜNGÖR MEHMET ALİ (2014). Euler-Savary formula for the homothetic motion in the complex plane. *Ain Shams Engineering Journal*, 5(1), 305-308., Doi: 10.1016/j.asej.2013.09.006 (Publication No: 1018809)
53. ERSOY SOLEY, İNALCIK ABDULLAH (2014). Generalized spacelike Bertrand curves in Minkowski 5space. *Quaestiones Mathematicae*, 37(1), 19-29., Doi: 10.2989/16073606.2013.779967 (Publication No: 1698262)
54. ERSOY SOLEY, MASAL MELEK, TOSUN MURAT (2014). On Mannheim Partner Curves of AW k type. *Uzbek Mathematical Journal*, 1, 97-107. (Publication No: 2006694)
55. ERSOY SOLEY, TOSUN MURAT (2013). Lorentzian Beltrami Meusnier Formula. *Gen. Math. Notes*, 18(1), 64-87. (Publication No: 803307)
56. ERSOY SOLEY, GÜRSES NURTEN (2013). Lorentzian Bobillier Formula. *Applied Mathematics ENotes*, 13, 25-35. (Publication No: 7205178)
57. ERSOY SOLEY, TOSUN MURAT (2013). Timelike Bertrand Curves in Semi Euclidean Space. *Int. J. Math. Stat.*, 14(2), 78-89. (Publication No: 803306)
58. ERSOY SOLEY, TOSUN MURAT, HİROO MATSUDA (2012). Generalized Mannheim curves in Minkowski space time E14. *Hokkaido Mathematical Journal*, 41(3), 441-461., Doi: 10.14492/hokmj/1351086223 (Publication No: 803310)
59. ERSOY SOLEY, İNALCIK ABDULLAH (2011). On the generalized timelike Bertrand curves in 5 dimensional Lorentzian space. *Differential Geometry - Dynamical Systems*, 13, 78-88. (Publication No: 2030069)
60. ERSOY SOLEY, TOSUN MURAT (2011). Lamarle formula in 3 dimensional Lorentz space. *Math. Commun.*, 16(2), 593-607. (Publication No: 803309)
61. ERSOY SOLEY, AKYİĞİT MAHMUT (2011). One Parameter Homothetic Motion in the Hyperbolic Plane and Euler Savary Formula. *Advances in Applied Clifford Algebras*, 21(2), 297-313., Doi: 10.1007/s00006-010-0255-3 (Publication No: 580169)

62. ERSOY SOLEY, AKYIĞIT MAHMUT, TOSUN MURAT (2011). A Note on Admissible Mannheim Curves in Galilean Space. *International Journal of Mathematical Combinatorics*, 1, 88-93. (Publication No: 803304)
63. AKYIĞIT MAHMUT, ERSOY SOLEY, ÖZGÜR İBRAHİM, TOSUN MURAT (2011). Generalized Timelike Mannheim Curves in Minkowski Space Time. *Mathematical Problems in Engineering*, 2011, 1-19., Doi: 10.1155/2011/539378 (Publication No: 580170)
64. ERSOY SOLEY, TOSUN MURAT (2010). Sectional curvature of timelike ruled surface part I Lorentzian Beltrami Euler Formula. *Iran. J. Sci. Technol. Trans. A Sci.*, 34(A3), 197-214. (Publication No: 803308)
65. AKYIĞIT MAHMUT, AZAK AYŞE ZEYNEP, ERSOY SOLEY (2010). Involute evolute Curves in Galilean Space G_3 . *Scientia Magna*, 6(4), 70-75. (Publication No: 580168)
66. GÜNGÖR MEHMET ALİ, ERSOY SOLEY, TOSUN MURAT (2009). Euler-Savary Formula for Planar Homothetic Motions. *Scientia Magna*, 5(4), 17-24. (Publication No: 803312)
67. GÜNGÖR MEHMET ALİ, ERSOY SOLEY, TOSUN MURAT (2009). Dual Lorentzian spherical motions and dual Euler Savary formula. *European Journal of Mechanics - A/Solids*, 28(4), 820-826., Doi: 10.1016/j.euromechsol.2009.03.007 (Publication No: 803311)
68. ERSOY SOLEY, TOSUN MURAT (2009). Lorentzian Beltrami Euler Formula and Generalized Lorentzian Formula R_1N . *Le Matematiche (Catania)*, 64(1), 25-45. (Publication No: 803313)
69. ERSOY SOLEY, TOSUN MURAT (2008). On The Trajectory Null Scrolls in 3 Dimensional Minkowski Space-Time E_3^1 . *Kyungpook Mathematical Journal*, 48(1), 81-92. (Publication No: 803314)
70. TOSUN MURAT, ERSOY SOLEY, GÜNGÖR MEHMET ALİ (2007). On The Blaschke Invariants of Generalized Time-like Ruled Surfaces. *Applied Sciences*, 9, 181-193. (Publication No: 803316)
71. TOSUN MURAT, GÜNGÖR MEHMET ALİ, ERSOY SOLEY (2005). A note on the Blaschke invariants of the pair of the generalized ruled surfaces under the symmetric homothetic motion. *International Journal of Computational Cognition*, 3(3), 78-81. (Publication No: 803319)
72. TOSUN MURAT, GÜNGÖR MEHMET ALİ, ERSOY SOLEY (2005). A note on the minimal index (Mindex) of time-like ruled surfaces. *PROCEEDINGS OF THE ESTONIAN ACADEMY OF SCIENCES. PHYSICS. MATHEMATICS*, 54(2), 87-97., Doi: 10.3176/phys.math.2005.2.03 (Publication No: 803318)
73. TOSUN MURAT, ERSOY SOLEY, GÜNGÖR MEHMET ALİ (2004). A study on the Blaschke invariants of the axoids under the symmetric helical motion. *INTERNATIONAL MATHEMATICAL JOURNAL*, 5(4), 389-396. (Publication No: 711418)
74. TOSUN MURAT, GÜNGÖR MEHMET ALİ, ERSOY SOLEY (2004). A note on scalar normal curvature of 2 dimensional time like ruled surfaces. *Int. Math. J.*, 16(2), 227-235. (Publication No: 803320)

Papers presented at international scientific meetings and published in proceedings

1. ERSOY SOLEY, TEZCAN KAYA GÜLSEN (2025). Fascinating harmony in Anatolian motifs: Geometry and topology in the minaret of Erzurum Yakutiye Madrasah. 21st International Geometry Symposium in Honor of Prof. Dr. Arif SALIMOV, 13-14. (Abstract/Guest Speaker) (Publication No: 9691270)
2. TEZCAN KAYA GÜLSEN, ÖZTÜRK MAHPEYKER, PARLATIÇI HATİÇE, ERSOY SOLEY (2025). Modular Fixed Point Framework for Seljuk Knot Motifs: A Topological Study of Karatay Madrasa and Kubadabad Palace. 3rd International Conference: Constructive Mathematical Analysis (Abstract/Oral Presentation) (Publication No: 9760956)
3. İNCE İBRAHİM, ERSOY SOLEY (2024). Fuzzy Square-Compact Sets. 20th International Geometry Symposium (Abstract/Oral Presentation) (Publication No: 9456388)
4. ÇALIŞKAN ABDUSSAMET, EREN KEMAL, ERSOY SOLEY (2023). Dual Magnetic Curves and Flux Ruled Surfaces. 2nd International E-Conference on Mathematical and Statistical Science: A Selcuk Meeting (Abstract/Oral Presentation) (Publication No: 8544096)
5. ERSOY SOLEY, SAVIC ANA, GORAN BJELOBABA, HANA STEFANOVIĆ (2023). Collaborative Learning of Mathematics Supported by Blockchain Technology in the Context of Mandelbrot and Julia Sets. 13th International Scientific Conference Science and Higher Education in Function of Sustainable Development – SED 2023, 1(27), 181-189. (Full Text Publication/Oral Presentation) (Publication No: 8713734)
6. EREN KEMAL, ERSOY SOLEY (2022). Geometry of Coupled Dispersionless Equations with Mannheim Curves. 11th International Eurasian Conference on Mathematical Sciences and Applications (IECMSA-2022) (Abstract/Oral Presentation) (Publication No: 8247435)
7. EREN KEMAL, ERSOY SOLEY (2022). Geometry of Coupled Dispersionless Equations with Involute Evolute Curves. 19th International Geometry Symposium (Abstract/Oral Presentation) (Publication No: 8247531)
8. EREN KEMAL, ERSOY SOLEY (2021). Hasimoto surfaces with Pointwise 1- type Gauss map. 10th International Eurasian Conference on Mathematical Sciences and Applications (IECMSA-2021) (Abstract/Oral Presentation) (Publication No: 8247200)
9. EREN KEMAL, ERSOY SOLEY (2021). Moving Quaternionic Curves and Modified Korteweg-de Vries Equation. 18th International Geometry Symposium in Honour of Prof.Dr. Sadık KELES (Abstract/Oral Presentation) (Publication No: 8247502)
10. EREN KEMAL, ERSOY SOLEY (2020). On curve pairs of Tzitzeica type. 9th International Eurasian Conference on Mathematical Sciences and Applications, 136 (Abstract/Oral Presentation) (Publication No: 6679868)
11. EREN KEMAL, ERSOY SOLEY (2019). Geometric Interpretation of Curvature Circles in Minkowski Plane. 8th International Eurasian Conference on Mathematical Sciences and Applications (IECMSA2019), 2(3), 205-208. (Full Text Publication/Oral Presentation) (Publication No: 5733350)
12. EREN KEMAL, ERSOY SOLEY (2019). Instantaneous Kinematics of a Planar Two-Link Open Chain in the Complex Plane. 17th International Geometry Symposium Erzinçan Binali Yildirim University (Abstract/Oral Presentation) (Publication No: 5839703)

13. EREN KEMAL, ERSOY SOLEY (2018). Circling-Point Curve in Minkowski Plane. 7th International Eurasian Conference on Mathematical Sciences and Applications (IECMSA-2018), 1(1), 1-6. (Full Text Publication/Oral Presentation) (Publication No: 4531829)
14. EREN KEMAL, ERSOY SOLEY (2018). The Circling-Point Curve of Inverse Motion in Minkowski Plane. 16th International Geometry Symposium (Abstract/Oral Presentation) (Publication No: 8247477)
15. ERSOY SOLEY, TOSUN MURAT (2017). Anti-space of Time Scales. VI Congress of the Turkic World Mathematical Society, Astana, Kazakhstan, 185-185. (Abstract/Oral Presentation) (Publication No: 3623454)
16. EREN KEMAL, ERSOY SOLEY, ERGÜT MAHMUT (2017). On Cardan Position for the Lorentzian Plane Motion of a Rigid Body. 6th International Eurasian Conference on Mathematical Sciences and Applications, Budapest, Hungary, 214-214. (Abstract/Oral Presentation) (Publication No: 3623449)
17. EREN KEMAL, ERSOY SOLEY (2017). Burmester Theory in Affine Cayley-Klein Plane. 15th International Geometry Symposium, 71-71. (Abstract/Oral Presentation) (Publication No: 3623448)
18. İNCE İBRAHİM, ERSOY SOLEY (2016). Sequentially Topological Groups. 5th International Eurasian Conference on Mathematical Sciences and Applications (IECMSA-2016) (Abstract/Poster) (Publication No: 3095736)
19. EREN KEMAL, ERSOY SOLEY (2016). Applications of Complex Form of Instantaneous Invariants to Planar Path Curvature Theory. 14th International Geometry Symposium (Abstract/Oral Presentation) (Publication No: 3095054)
20. SOYFİDAN TÜLAY, GÜNGÖR MEHMET ALİ, ERSOY SOLEY (2015). On the Construction of Generalized Bobillier Formula. 4th International Eurasian Conference on Mathematical Sciences and Applications, 322-322. (Abstract/Poster) (Publication No: 2248325)
21. ERSOY SOLEY, İNCE İBRAHİM, BİLGİN MERVE (2015). Strongly k space. 4th International Eurasian Conference On Mathematical Sciences And Applications (Abstract/Poster) (Publication No: 2003952)
22. İNALCIK ABDULLAH, ERSOY SOLEY, STACHEL HELLMUTH (2014). On Instantaneous Invariants of Hyperbolic Plane. 3rd International Eurasian Conference on Mathematical Sciences and Applications (IECMSA 3) (Abstract/Oral Presentation) (Publication No: 1368470)
23. İNALCIK ABDULLAH, ERSOY SOLEY (2011). Non null Helicoidal Surfaces As Bonnet Surfaces. VI International Meeting on Lorentzian Geometry (Abstract/Poster) (Publication No: 1060533)
24. ERSOY SOLEY, BAYRAK NURTEN (2011). Lorentzian Bobillier Formula. VI International Meeting on Lorentzian Geometry (Abstract/Oral Presentation) (Publication No: 186925)
25. AKYİĞİT MAHMUT, ERSOY SOLEY, TOSUN MURAT (2011). Beltrami Meusnier Formulas of Semi Ruled Surface. VI. International Meeting on Lorentzian Geometry, 42 (Abstract/Poster) (Publication No: 537163)
26. AKYİĞİT MAHMUT, ERSOY SOLEY, TOSUN MURAT (2010). Sectional Curvature of Semi Ruled Surface in Semi Euclidean Space. International Conference Differential

Geometry-Dynamical System (DGDS-2010) (Abstract/Oral Presentation) (Publication No: 580281)

27. ERSOY SOLEY, AZAK AYŞE ZEYNEP (2007). 3 Boyutlu Lorentz Uzayında Lamarle Formülü. 2. Türk Dünyası Matematik Sempozyumu (Abstract/Oral Presentation) (Publication No: 1965206)

Books

1. ERSOY SOLEY, AKYİĞİT MAHMUT, YILDIZ ÖNDER GÖKMEN, Eğriler Teorisi (2023)., Nobel Akademik Yayıncılık, Edition No:1, Pages 336, ISBN:978-625-397-105-2, Turkish (Scientific Book) (Publication No: 8383274)
2. TOSUN MURAT, ERSOY SOLEY Models and Theories in Social Systems. Studies in Systems, Decision and Control, Chapter: Rolling Circles of Motions: Yesterday and Today (2019)., Springer Nature Switzerland AG, Editors: Cristina Flaut, Šárka Hošková-Mayerová, Daniel Flaut, Edition no:1, Pages 576, ISBN:978-3-030-00084-4, English (Scientific Book) (Publication No: 4413734)
3. ERSOY SOLEY, AKYİĞİT MAHMUT, GÖZ YASLARI OLMADAN TOPOLOJİ, Chapter name:(0.Giris,1. Topolojik Uzaylar, 2. Öklid Topolojisi, 3. Limit noktalar,4. Homeomorfizmler, 5. Sürekli Fonksiyonlar,6.Sonsuz Kümeler) (2015)., Topology Without Tears, Edition no:1, Pages 171, Turkish (Book Translation) (Publication No: 1850394)

Articles published in national refereed journals

1. ERSOY SOLEY, TOSUN MURAT (2020). Minkowski Uzayında Asli Regle Yüzeylerin Kesit Eğriliği. Erzincan Üniversitesi Fen Bilimleri Enstitüsü Dergisi, 13, 83-91., Doi: 10.18185/erzifbed.622178 (Control No: 6122285)
2. ERSOY SOLEY, POLAT HİLAL, TÜRKÖĞLU AYŞENUR (2017). The de Groot Dual of time scales. SAÜ. Fen Bilimleri Dergisi, 21(6), 1336-1341. (Control No: 3886142)
3. ERSOY SOLEY, EREN KEMAL (2013). Sabit olmayan ortalama eğrilikli timelike Bonnet yüzeyler. Sakarya Üniversitesi Fen Bilimleri Enstitüsü Dergisi, 17(1), 113-118. (Control No: 7205308)
4. TOSUN MURAT, GÜNGÖR MEHMET ALİ, CEMİLE SAMANCI, ERSOY SOLEY (2004). Yarı Öklidiyen Uzayında Yarı Hiperregle Yüzeyler. Fırat Üniversitesi Fen ve Mühendislik Bilimleri Dergisi, 597-606. (Control No: 710277)

C. Papers presented at national scientific meetings and published in

1. ERSOY SOLEY, BİLGİN MERVE (2018). Topolojik Bihiperbolik Modüller. 31.Ulusal Matematik Sempozyumu, Erzincan Binali Yıldırım Üniversitesi (Abstract/Oral Presentation) (Publication No: 4824315)
2. ERSOY SOLEY, EREN KEMAL (2013). Timelike Tangent Developable Surfaces and Bonnet Surfaces. 11. Geometri Sempozyumu (Abstract/Oral Presentation) (Publication No: 8247137)
3. ERSOY SOLEY, İNALCIK ABDULLAH, MASAL MELEK (2010). Generalized Non Null Bertrand Curves in Minkowski 4 Space. 9. Geometri Sempozyumu (Abstract/Oral Presentation) (Publication No: 1060531)
4. AZAK AYŞE ZEYNEP, AKYİĞİT MAHMUT, ERSOY SOLEY (2010). Involute evolute curves in Galilean space G 3. 8. Geometri Sempozyumu, 66 (Abstract/Oral Presentation) (Publication No: 536737)

5. AZAK AYŞE ZEYNEP, AKYİĞİT MAHMUT, ERSOY SOLEY (2010). G^3 Galile Uzayında İnvolut-Evolüt Eğrileri. VIII. Geometri Sempozyumu (Abstract/Oral Presentation) (Publication No: 8276221)
6. ERSOY SOLEY, MASAL MELEK, TOSUN MURAT (2010). AW_k Tipi Mannheim Eğri Çiftleri. VIII. Geometri Sempozyumu, (Abstract/Oral Presentation) (Publication No: 2286636)
7. ERSOY SOLEY, AKYİĞİT MAHMUT (2009). The Euler Savary Formula for the 1 Parameter Homothetic Motions in the Hyperbolic Plane. 7. Geometri Sempozyumu (Abstract/Oral Presentation) (Publication No: 580280)
8. MASAL MELEK, ERSOY SOLEY, GÜNGÖR MEHMET ALİ (2008). Kompleks Düzlemde 1 Parametrel Homotetik Hareketler İçin Euler Savary Formülü. VI. Ulusal Geometri Sempozyumu (Abstract/Oral Presentation) (Publication No: 713229)
9. TOSUN MURAT, ERSOY SOLEY, GÜNGÖR MEHMET ALİ (2004). k Mertebeden simetrik homotetik hareketler altında regle yüzeylerin Blaschke invaryantları üzerine. II. Geometri Sempozyumu (Abstract/Oral Presentation) (Publication No: 713355)

Technical Notes, Case Reports, Research Notes

1. ERSOY SOLEY, GÜRSES NURTEN (2012). Technical Note, Bobillier Formula for One Parameter Motions in the Complex Plane. Journal of Mechanisms and Robotics, 4(2), Doi: 10.1115/1.4006195 (Publication No: 7205228)

Editorial and Reviewer Roles

- Editor, *Fundamental Journal of Mathematics and Applications* (2020–2022)
- Guest Editor, *Tbilisi Mathematical Journal* (2019)
- Guest Editor, *Facta Universitatis, Series: Mathematics and Informatics* (2019)
- Assistant Editor, *Sakarya University Journal of Science* (2019)

Other Experiences

- Visiting Scholar, Vienna University of Technology (2014)
- Mathematics Teacher, Adapazarı Atatürk High School, Sakarya (2001–2002)
- Mathematics Teacher, Adnan Menderes Primary School, Aydın (2000–2001)