

## Assoc. Prof. DİDEM AKYÜZ

### Personal Information

**Email:** dakyuz@metu.edu.tr

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### Education Information

Doctorate, University Of Central Florida, Education (Eğitim), United States Of America 2007 - 2010

Postgraduate, Hacettepe Üniversitesi, Fen Fakültesi, Aktüerya Bilimleri Bölümü, Turkey 2003 - 2006

Undergraduate, Ankara Üniversitesi, Fen Fakültesi, Matematik Bölümü, Turkey 1999 - 2003

### Dissertations

Doctorate, Supporting a Standards-Based Teaching and Learning Environment: A Case Study of an Expert Middle School Mathematics Teacher, University Of Central Florida, Education (Eğitim), 2010

Postgraduate, Faizin Raslantı Değişkeni Olması Durumunda Ödeme Dizileri, Hacettepe Üniversitesi, 2006

### Research Areas

Teacher Training in Science and Math. at Second. Sch. Lev.

### Academic Titles / Tasks

Associate Professor, Middle East Technical University, Faculty of Education, İlköğretim Bölümü, 2016 - Continues

Assistant Professor, Middle East Technical University, Faculty of Education, Matematik Ve Fen Bilimleri Eğitimi Bölümü, 2012 - 2016

### Academic and Administrative Experience

Deputy Head of Department, Middle East Technical University, Faculty of Education, Science and Mathematics Education, 2020 - Continues

Deputy Head of Department, Middle East Technical University, Faculty of Education, İlköğretim Bölümü, 2013 - 2014

### Advising Theses

Akyüz D., An investigation of 8th grade students' statistical literacy through problems with and without context, Postgraduate, T.VURAL(Student), 2020

AKYÜZ D., TEKSÖZ G., AN INVESTIGATION OF TEACHING PRISMS IN 5TH GRADES SUPPORTED BY EDUCATION FOR SUSTAINABLE DEVELOPMENT, Postgraduate, E.KANDİLLİ(Student), 2019

Akyüz D., Middle school mathematics teachers' perceptions of inclusion and their use of teaching strategies in basic arithmetical operations and problems, Postgraduate, B.GÜLDEN(Student), 2019

Akyüz D., Investigating middle school students' achievement and strategies in proportional reasoning problems,

Postgraduate, G.ÖZEN(Student), 2019

Akyüz D., Middle school students' use of problem-solving steps and their strategies in solving word problems,

Postgraduate, C.SİNAN(Student), 2019

AKYÜZ D., Developing eighth grade students' mathematical practices in solids through argumentation: a design-based study, Doctorate, Ş.Şahin(Student), 2018

AKYÜZ D., Investigating preservice middle school mathematics teachers' noticing of students' mathematical thinking in the context of lesson study /, Doctorate, P.GÜNER(Student), 2017

AKYÜZ D., The Effects of using concrete manipulative and GeoGebra on fifth grade students' achievement in quadrilaterals, Postgraduate, Ö.Dışbudak(Student), 2017

AKYÜZ D., Developing mathematical practices in a social context: A hypothetical learning trajectory to support preservice middle school mathematics teachers' learning of triangles, Doctorate, T.UYGUN(Student), 2016

İŞIKSAL BOSTAN M., AKYÜZ D., A pre-service mathematics teacher's technological pedagogical content knowledge regarding different views of 3-D figures in geometry, Postgraduate, İ.SARALAR(Student), 2016

AKYÜZ D., Investigating middle school mathematics teachers' mathematical knowledge for teaching algebra: a multiple case study, Doctorate, D.Girit(Student), 2016

AKYÜZ D., Developing mathematical practices in a social context: a hypothetical learning trajectory to support preservice middle school mathematics teachers' learning of triangles, Doctorate, T.Uygun(Student), 2015

AKYÜZ D., The effects of dynamic geometry use on eight grade students' achievement in geometry and attitude towards geometry on triangle topic, Postgraduate, H.SAMUR(Student), 2015

AKYÜZ D., The Effects of dynamic geometry use on eighth grade students' achievement in geometry and attitude towards geometry on triangle topic, Postgraduate, H.Samur(Student), 2015

AKYÜZ D., İŞIKSAL BOSTAN M., The Effect of using dynamic geometry software on eight grade students' achievement in transformation geometry, geometric thinking and attitudes toward mathematics and technology y, Postgraduate, M.Buğra(Student), 2014

AKYÜZ D., The effect of using dynamic geometry software on eight grade students' achievement in transformation geometry, geometric thinking and attitudes toward mathematics and technology, Postgraduate, M.BUĞRA(Student), 2014

ÇAKIROĞLU E., AKYÜZ D., A phenomenological study on incorporating the history of mathematics into teaching from the perspective of primary and mathematics teachers, Postgraduate, S.SÖZEN(Student), 2013

ÇAKIROĞLU E., AKYÜZ D., Investigating the use of technology on pre-service elementary mathematics teachers' plane geometry problem solving strategies, Postgraduate, İ.KOYUNCU(Student), 2013

## Jury Memberships

Doctorate, Doctorate, Orta Doğu Teknik Üniversitesi, September, 2018

Doctorate, Doctorate, Orta Doğu Teknik Üniversitesi, July, 2018

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

- I. **Mathematical Practices of Eighth Graders about 3D Shapes in an Argumentation, Technology, and Design-Based Classroom Environment**  
Dogruer S. S. , AKYÜZ D.  
INTERNATIONAL JOURNAL OF SCIENCE AND MATHEMATICS EDUCATION, vol.18, no.8, pp.1485-1505, 2020  
(Journal Indexed in SSCI)
- II. **Noticing Student Mathematical Thinking Within the Context of Lesson Study**  
GÜNER P., AKYÜZ D.  
JOURNAL OF TEACHER EDUCATION, vol.71, no.5, pp.568-583, 2020 (Journal Indexed in SSCI)
- III. **Measuring technological pedagogical content knowledge (TPACK) through performance assessment**  
AKYÜZ D.  
COMPUTERS & EDUCATION, vol.125, pp.212-225, 2018 (Journal Indexed in SCI)

- IV. **MATHEMATICAL PRACTICES IN A TECHNOLOGICAL SETTING: A DESIGN RESEARCH EXPERIMENT FOR TEACHING CIRCLE PROPERTIES**  
AKYÜZ D.  
INTERNATIONAL JOURNAL OF SCIENCE AND MATHEMATICS EDUCATION, vol.14, no.3, pp.549-573, 2016 (Journal Indexed in SSCI)
- V. **INVESTIGATING PLANE GEOMETRY PROBLEM-SOLVING STRATEGIES OF PROSPECTIVE MATHEMATICS TEACHERS IN TECHNOLOGY AND PAPER-AND-PENCIL ENVIRONMENTS**  
Koyuncu I., AKYÜZ D., ÇAKIROĞLU E.  
INTERNATIONAL JOURNAL OF SCIENCE AND MATHEMATICS EDUCATION, vol.13, no.4, pp.837-862, 2015 (Journal Indexed in SSCI)
- VI. **Çember Özelliklerini Öğretmeyi Amaçlayan Teknoloji ve Sorgulama Tabanlı bir Sınıfta Oluşan Sosyomatematikselsel Normların İncelenmesi**  
AKYÜZ D.  
Eğitim Ve Bilim-Education And Science, vol.39, pp.58-72, 2014 (Journal Indexed in SSCI)
- VII. **An Investigation into Sociomathematical Norms in a Technology and Inquiry Based Classroom for Teaching Circle Properties**  
Akyuz D.  
EGITIM VE BILIM-EDUCATION AND SCIENCE, vol.39, no.175, pp.58-72, 2014 (Journal Indexed in SSCI)
- VIII. **A Proposed Instructional Theory for Integer Addition and Subtraction**  
Stephan M., AKYÜZ D.  
JOURNAL FOR RESEARCH IN MATHEMATICS EDUCATION, vol.43, no.4, pp.428-464, 2012 (Journal Indexed in SSCI)
- IX. **The Role of the Teacher in Supporting Imagery in Understanding Integers**  
AKYÜZ D., Stephan M., Dixon J. K.  
EGITIM VE BILIM-EDUCATION AND SCIENCE, vol.37, no.163, pp.268-282, 2012 (Journal Indexed in SSCI)

### Articles Published in Other Journals

- I. **Co-teaching practices that build autonomy for students with learning disabilities in mathematics**  
AKYÜZ D., Stephan M.  
INTERNATIONAL JOURNAL OF MATHEMATICAL EDUCATION IN SCIENCE AND TECHNOLOGY, 2020 (Journal Indexed in ESCI)
- II. **Developing ratio tables to explore ratios**  
SOZEN OZDOGAN S., AKYÜZ D., STEPHAN M.  
Australian Mathematics Education Journal, vol.1, no.2, pp.16-21, 2019 (Refereed Journals of Other Institutions)
- III. **Ortaokul Matematik Öğretmen Adaylarının Üçgen Eşitsizliğini Toplu Argümantasyonla Kavrayışları**  
Uygun T., Akyüz D.  
İnönü Üniversitesi Eğitim Fakültesi Dergisi, vol.20, no.1, pp.27-41, 2019 (National Refreed University Journal)
- IV. **Developing Subject Matter Knowledge through Arguemntation**  
UYGUN T., AKYÜZ D.  
International Journal of Research in Education and Science, vol.5, no.2, pp.532-547, 2019 (Refereed Journals of Other Institutions)
- V. **The Comparative Effects of Concrete Manipulatives and Dynamic Software on the Geometry Achievement of Fifth-Grade Students**  
Disbudak O., Akyüz D.  
INTERNATIONAL JOURNAL FOR TECHNOLOGY IN MATHEMATICS EDUCATION, vol.26, no.1, pp.3-20, 2019 (Journal Indexed in ESCI)
- VI. **Middle Grade Students' Evoked Concept Images of Number Line Models and Their Calculation Strategies with Integers Using These Models**  
YILMAZ A., AKYÜZ D., Stephan M.  
INTERNATIONAL JOURNAL OF EDUCATION IN MATHEMATICS SCIENCE AND TECHNOLOGY, vol.7, no.1, pp.93-115,

2019 (Journal Indexed in ESCI)

- VII. **The Evaluation of a Pre-Service Mathematics Teacher's TPACK: A Case of 3D Shapes with GeoGebra**  
Saralar I., Işıksal Bostan M., Akyüz D.  
INTERNATIONAL JOURNAL FOR TECHNOLOGY IN MATHEMATICS EDUCATION, vol.25, pp.3-21, 2018 (Journal Indexed in ESCI)
- VIII. **Öğretmen Adaylarının Ders İmecesini (Lesson Study) Kapsamında Matematiksel Fark Etme Nitelikleri**  
Güner P., Akyüz D.  
Ondokuz Mayıs Üniversitesi Eğitim Fakültesi Dergisi, vol.36, pp.447-467, 2017 (Other Refereed National Journals)
- IX. **Ders İmecesini (Lesson Study) Mesleki Gelişim Modeli: Öğretmen Adaylarının Fark Etme Becerilerinin İncelenmesi**  
GÜNER P., AKYÜZ D.  
İlköğretim Online, vol.16, pp.428-452, 2017 (Other Refereed National Journals)
- X. **The development of a self-efficacy scale for mathematical modeling competencies**  
KOYUNCU İ., Guzeller C. O., AKYÜZ D.  
INTERNATIONAL JOURNAL OF ASSESSMENT TOOLS IN EDUCATION, vol.4, no.1, pp.19-36, 2017 (Journal Indexed in ESCI)
- XI. **The Effects of Using Dynamic Geometry on Eighth Grade Students' Achievement and Attitude towards Triangles**  
Samur Turk H., Akyüz D.  
INTERNATIONAL JOURNAL FOR TECHNOLOGY IN MATHEMATICS EDUCATION, vol.23, pp.95-102, 2016 (Journal Indexed in ESCI)
- XII. **Ortaokul matematik öğretmen adaylarının üçgenler konusunda tanım oluşturma sürecindeki öğrenmeleri**  
Uygun T., AKYÜZ D.  
Abant İzzet Baysal Üniversitesi Eğitim Fakültesi Dergisi, vol.16, pp.2002-2022, 2016 (Other Refereed National Journals)
- XIII. **Algebraic Thinking in Middle School Students at Different Grades Conceptions about Generalization of Patterns**  
Girit D., Akyüz D.  
Necatibey Eğitim Fakültesi Elektronik Fen ve Matematik Eğitimi Dergisi (elektronik), vol.10, pp.242-271, 2016 (Other Refereed National Journals)
- XIV. **Solution Strategies of a Teacher Candidate Rediscovering Numbers in Base Eight**  
AKYÜZ D.  
İnönü Üniversitesi Eğitim Fakültesi Dergisi, vol.17, pp.199-216, 2016 (Other Refereed National Journals)
- XV. **Pre-Service Middle School Mathematics Teachers' Understanding of Students' Knowledge: Location of Decimal Numbers on a Number Line**  
GİRİT D., AKYÜZ D.  
INTERNATIONAL JOURNAL OF EDUCATION IN MATHEMATICS SCIENCE AND TECHNOLOGY, vol.4, no.2, pp.84-100, 2016 (Journal Indexed in ESCI)
- XVI. **Farklı öğretim yöntemleri ve sınıf seviyesine göre öğretmen adaylarının TPAB analizi**  
AKYÜZ D.  
Türk Bilgisayar ve Matematik Eğitimi Dergisi, vol.7, pp.89-111, 2016 (Other Refereed National Journals)
- XVII. **Improving the quality of mathematics teaching with effective planning practices**  
Akyüz D., Dixon J. K., Stephan M.  
Teacher Development, vol.17, no.1, pp.92-106, 2013 (Journal Indexed in ESCI)

## Books & Book Chapters

- I. **A Phenomenological Study: Incorporating the History of Mathematics from the Perspective of Teachers**

Sozen Ozdogan S., AKYÜZ D., ÇAKIROĞLU E.

in: The Language of Mathematics, Patrick M. Jenlink, Editor, Rowman Littlefield, London, pp.113-142, 2020

**II. Çocuklara Matematik Tarih ile Nasıl Öğretilir?**

Akyüz D.

in: Prof. Dr. Emine Akyüz'e Armağan Akademisyenlikte 50 YIL, , Editor, Pegem A Yayıncılık, Ankara, pp.74-77, 2018

**III. Teaching Integers to Students with Disabilities: Three Case Studies**

Stephan M., Akyüz D.

in: Exploring the Integer Addition and Subtraction Landscape, Laura Bofferding, Nicole M. Wessman-Enzinger, Editor, Springer, London/Berlin , Zug, pp.75-108, 2018

## Refereed Congress / Symposium Publications in Proceedings

**I. Argümantasyon Tabanlı Geometri Öğretimi: Öğretmen Adayının Karşılaştığı Zorluklar**

Akyüz D.

6. International Eurasian Educational Research Congress, Ankara, Turkey, 19 - 22 June 2019, pp.1681-1686

**II. ORTAOKUL MATEMATİK ÖĞRETMENLERİNİN KAYNAŞTIRMA ÖĞRENCİLERİNE KULLANDIKLARI ÖĞRETİM YÖNTEM VE TEKNİKLERİ**

Gülden B., Akyüz D.

6. International Eurasian Educational Research Congress, Ankara, Turkey, 19 - 22 June 2019, pp.1803-1808

**III. Tasarım Tabanlı Araştırmanın Matematik Öğretiminde Uygulanması: Öğrenci Merkezli İçerik Geliştirme**

Özdoğan S. S. , Akyüz D.

6. International Eurasian Educational Research Congress, Ankara, Turkey, 19 - 22 June 2019, pp.1756-1762

**IV. Students' Difficulties and Misconceptions in Integers**

Doğruer Ş. Ş. , Akyüz D.

28. Uluslararası Eğitim Bilimleri Kongresi, Ankara, Turkey, 25 - 28 April 2019, pp.1097-1104

**V. Investigation of Fifth and Sixth Grade Students' Use of Strategies and Approaches in Problem Solving**

Alkan C. S. , Akyüz D.

28. Uluslararası Eğitim Bilimleri Kongresi, Ankara, Turkey, 25 - 28 April 2019, pp.1105-1112

**VI. Öğrencilerin Matematik Öğrenimini Desteklemede Başlat-Keşfet-Tartış Örneği**

Özdoğan S. S. , Akyüz D.

28. Uluslararası Eğitim Bilimleri Kongresi, Ankara, Turkey, 25 - 28 April 2019, pp.1133-1145

**VII. Solution Strategies of Middle School Students in Proportional Reasoning Problems**

Yılmaz G. Ö. , Akyüz D.

28. Uluslararası Eğitim Bilimleri Kongresi, Ankara, Turkey, 25 - 28 April 2019, pp.1124-1132

**VIII. Difficulties of 5th Grade Students in Drawing Nets of Prisms**

Ece K., Akyüz D.

INTERNATIONAL LEARNING TEACHING ANDEDUCATIONAL RESEARCH CONGRESS (ILTER-2018), Amasya, Turkey, 6 - 08 September 2018, pp.631-635

**IX. The Perceptions of Middle School Mathematics Preservice Teachers about Sociomathematical Norms**

Gülnur A., Akyüz D.

INTERNATIONAL LEARNING TEACHING ANDEDUCATIONAL RESEARCH CONGRESS (ILTER-2018), Amasya, Turkey, 6 - 08 September 2018, pp.343-347

**X. How Argumentation and Geogebra Support Students'xx Understanding of Nets of Prisms**

Şahin Doğruer Ş., Akyüz D.

International Learning Teaching and Educational Research Congress (ILTER-2018), Amasya, Turkey, 6 - 08 September 2018, pp.270-276

**XI. Determination of the Statistical Literacy Differences between Mathematics and Science Teachers**

Karataş M. D. , Akyüz D.

ERPA International Congresses on Education 2018, İstanbul, Turkey, 28 June - 01 July 2018, pp.132-138

- XII. **PRE-SERVICE TEACHERS'xx GOALS FOR INTEGRATING TECHNOLOGY INTO TEACHING MIDDLE SCHOOL MATHEMATICS**  
Dilberoğlu M., Yılmaz A., Sevinç Ş., Akyüz D.  
International Conference on Education in Mathematics, Science Technology (ICEMST), Muğla, Turkey, 28 April - 01 May 2018, pp.163
- XIII. **Investigating the Effect of Beliefs on Prospective Teachers'xx Technological Pedagogical Content Knowledge**  
AKYÜZ D.  
Winter Global Education, Teaching Learning Conference, Tignes, France, 29 January - 02 February 2018, pp.10-18
- XIV. **Investigating Teaching Practices for Teaching Algebraic Expressions within a Multiple Case Study**  
Girit D., Akyüz D.  
International Conference on Education in Mathematics, Science Technology (ICEMST), Aydın, Turkey, 18 - 21 May 2017, vol.6, pp.31-37
- XV. **Preservice Middle School Mathematics Teachers' Knowledge about Students' Mathematical Thinking Related to Perimeter and Area**  
Güner P., Akyüz D.  
International Conference on Education in Mathematics, Science Technology, Aydın, Turkey, 18 - 21 May 2017, pp.61-67
- XVI. **Preservice middle school mathematics teachers' conception of auxiliary elements of triangles**  
Uygun T., Akyüz D.  
Internatiobnal Conference on Education in Mathemnatics, Science and Technology, Aydın, Turkey, 18 - 21 May 2017
- XVII. **Examination of Planned and Implemented Lessons**  
Güner P., Akyüz D.  
International Conference on Mathematics and Mathematics Education, Şanlıurfa, Turkey, 11 - 13 May 2017
- XVIII. **Practices that Support in-the-Moment Teacher Productive Noticing: A Case Study of an Expert Teacher**  
AKYÜZ D.  
21st Association of Mathematics Teacher Educators Conference, 9 - 11 February 2017
- XIX. **A Study on a Pre Service Mathematics Teacher s Technological Pedagogical Content Knowledge regarding Different Views of 3 D Figures in Geometry**  
saralar i., ISIKSAL BOSTAN M., AKYÜZ D.  
European Educational Research Association (ECER), Dublin, Ireland, 22 - 26 August 2016
- XX. **Mathematical Knowledge for Teaching of Patterns A Case Study of Middle School Mathematics Teacher**  
GİRİT D., AKYÜZ D.  
International Congress on Mathematics Education, 24 - 31 July 2016
- XXI. **Direct or Inquiry Instruction for Students with Special Needs The Wrong Question**  
stephan m., AKYÜZ D., smith j.  
International Congress on Mathematics Education, Hamburg, Germany, 24 - 31 July 2016
- XXII. **İlköğretim Matematik Öğretmen Adaylarının Teknolojik Pedagojik Alan Bilgisi TPAB Öğretmen Adaylarının Yıl Dağılımları ve Farklı Ders İşleyiş Biçimlerine Göre TPAB Seviyelerinin İncelenmesi**  
Güner P., AKYÜZ D.  
Türk Bilgisayar ve Matematik Eğitimi Sempozyumu (TÜRKBİLMAT-2), Adıyaman, Turkey, 16 - 18 May 2015
- XXIII. **Ders İmecesini Lesson Study Mesleki Gelişim Modelinin Öğretmen Adaylarının Fark Etme Becerileri Üzerine Yansıması**  
Güner P., AKYÜZ D.  
Türk Bilgisayar ve Matematik Eğitimi Sempozyumu (TÜRKBİLMAT-2), Adıyaman, Turkey, 16 - 18 May 2015
- XXIV. **Investigating The Use of Technology on Prospective Teacher Thinking Preferences Comparing Solutions of Geometry Problems with and without Technology**

Akyüz D.

International Conference on Education in Mathematics, Science & Technology, Antalya, Turkey, 23 - 26 April 2015, pp.279-289

- XXV. **Preservice Elementary Teachers Conception of Multiplication on Whole Numbers**  
Uygun T., AKYÜZ D.  
International Society of Educational Research Conference, Kapadokya, Turkey, 29 October - 02 November 2014, pp.57
- XXVI. **An Investigation of Preservice Elementary Mathematics Teachers Content Knowledge about Measures of Central Tendency**  
Uygun T., AKYÜZ D.  
International Society of Educational Research Conference, Kapadokya, Turkey, 29 October - 02 November 2014, pp.19
- XXVII. **Preservice Elementary Teachers Knowledge Of Addition And Subtraction Problem Types And Strategies**  
Uygun T., AKYÜZ D.  
International Society of Educational Research Conference, Kapadokya, Turkey, 29 October - 02 November 2014, pp.55
- XXVIII. **İlköğretim Matematik Öğretmen Adaylarının Geometri Problem Çözmede Biliş Üstbiliş Süreçlerinin İncelenmesi**  
Girit D., AKYÜZ D.  
11. Ulusal Fen Bilimleri ve Matematik Eğitim Kongresi, Adana, Turkey, 11 - 14 September 2014, pp.22-23
- XXIX. **Farklı Sınıf Seviyelerindeki Ortaokul Öğrencilerinin Örüntülerden Genelleme Stratejileri**  
Girit D., AKYÜZ D.  
11. Ulusal Fen Bilimleri ve Matematik Eğitim Kongresi, Adana, Turkey, 11 - 14 September 2014, pp.634-635
- XXX. **Dinamik Geometri Yazılımı Kullanımının Sekizinci Sınıf Öğrencilerinin Dönüşüm Geometrisi Konusundaki Başarısı Üzerine Etkisi**  
Girit D., AKYÜZ D.  
11. Ulusal Fen Bilimleri ve Matematik Eğitim Kongresi, Adana, Turkey, 11 - 14 September 2014, pp.816
- XXXI. **Ortaokul 7 Sınıf Öğrencilerinin Sayı Doğrusu Modellerinin İncelenmesi**  
Girit D., AKYÜZ D.  
11. Ulusal Fen Bilimleri ve Matematik Eğitim Kongresi, Adana, Turkey, 11 - 14 September 2014, pp.452-453
- XXXII. **İlköğretim Matematik Öğretmeni Adaylarının Öğrencilerin Kesir Ondalık Gösterim ve Yüzde Kavramlarının İlişkisi Hakkındaki Bilgilerine Dair Düşünceleri ve Önerileri**  
Girit D., AKYÜZ D.  
13. Matematik Sempozyumu Anadolu'da Matematik (MATDER), Karabük, Turkey, 15 - 17 May 2014, pp.330-335
- XXXIII. **The Effect of Visual and Non Visual Thinking Preferences on Students Use of Dynamic Software Two Preservice Teachers Problem Solving Strategies**  
Girit D., AKYÜZ D.  
European Educational Research Association (ECER), İstanbul, Turkey, 10 - 13 September 2013
- XXXIV. **Students Conceptions About Decimals And Connection With Fractions**  
Girit D., AKYÜZ D.  
European Educational Research Association (ECER), İstanbul, Turkey, 10 - 13 September 2013
- XXXV. **An Instructional Design Collaborative in One Middle School Task Design in Mathematics Education**  
Michelle S., AKYÜZ D.  
Proceedings of ICMI Study 22, Oxford, United Kingdom, 22 - 26 July 2013, pp.511-520
- XXXVI. **Preservice Teacher s Reflective Practice Guide For Learning About Teaching**  
Ayan R., AKYÜZ D., Işıksal M., ÇAKIROĞLU E.  
Eighth Congress of European Research in Mathematics Education, Manavgat, Turkey, 6 - 10 February 2013
- XXXVII. **Öğretmen Adaylarının Matematik Öğretimine Yönelik Kavrayışlarının Gelişimi Üzerine Bir Özel Durum Çalışması**  
Işıksal M., AKYÜZ D., ÇAKIROĞLU E., Ayan R.

11. Matematik Sempozyumu Anadolu'da Matematik (MATDER), Samsun, Turkey, 19 - 21 September 2012, pp.175-176
- XXXVIII. **Supporting Teachers Development of Technology Based Lessons for Algebra and Geometry**  
AKYÜZ D., Dixon J., Safi F., Coşkun Ş.  
Applied Education Congress (Uygulamalı Eğitim Kongresi), Ankara, Turkey, 13 - 15 September 2012, pp.188-189
- XXXIX. **Practices of an Expert Mathematics Teacher in Small Groups**  
AKYÜZ D.  
Proceedings of 37th Annual Conference of the Association for Teacher Education in Europe, Eskişehir, Turkey, 25 - 29 August 2012, pp.48-59
- XL. **Ortaokul Öğrencilerinin Tamsayılar Konusundaki Çözüm Stratejileri**  
AKYÜZ D.  
X. Ulusal Fen Bilimleri Ve Matematik Eğitim Kongresi (UFBMEK), Niğde, Turkey, 27 - 30 June 2012, pp.348
- XLI. **Developing Techno Pedagogical Skills in Preservice Elementary Mathematics Teachers**  
BALGALMIŞ E., ÇAKIROĞLU E., AKYÜZ D., Kathryn S.  
Society for Information Technology & Teacher Education International Conference, Austin, United States Of America, 5 - 09 March 2012, pp.2235-2240
- XLII. **Using Pictures in Geogebra with Everyday Context to Support Teaching and Learning Algebra**  
AKYÜZ D.  
58th Annual Conference of the Florida Council of Teachers of Mathematics (FCTM), Orlando, United States Of America, 30 September - 02 October 2010
- XLIII. **Developing the Concept of Integers in the Context of Finance**  
Stephan M., AKYÜZ D.  
Eighty-eighth Annual Meeting of National Council of Teachers of Mathematics (NCTM), San Diego, United States Of America, 21 - 24 April 2010
- XLIV. **Conducting Design Research with Teachers Artifacts and Practices that Support Teacher Engagement**  
Stephan M., AKYÜZ D., McManus G., Smith J., Dickey A.  
Educational Design Research Conference, Athens, Greece, 26 - 27 March 2010
- XLV. **Preservice Teachers Understanding of Continuity**  
Coşkun Ş., AKYÜZ D.  
14th Annual Conference of the Association of Mathematics Teacher Educators (AMTE), Irvine, Scotland, 28 - 30 January 2010
- XLVI. **The Effect of Using Calculator in Eight Grade Turkish Mathematics Students Results from the Trends in International Mathematics and Science Study**  
AKYÜZ D., Coşkun Ş.  
Florida Educational Research Association's (FERA) Annual Meeting, Orlando, United States Of America, 18 - 20 November 2009
- XLVII. **Supporting Teachers as They Develop Technology based Lessons for Geometry Instruction**  
AKYÜZ D., Dixon J.  
Conference of Florida Association of Teacher Educators, Daytona Beach, United States Of America, 9 - 10 October 2009
- XLVIII. **Developing Meaning and Understanding through Technology An Illustration Using Algebra II Activities**  
AKYÜZ D.  
57th Annual Conference of the Florida Council of Teachers of Mathematics (FCTM), West Palm Beach, United States Of America, 1 - 03 October 2009
- XLIX. **An investigation into two preservice teachers use of different representations in solving a pattern task**  
AKYÜZ D., Coşkun Ş., Hacıömeroğlu E. S.  
Proceedings of the 31st annual meeting of the North American Chapter of the International Group for the Psychology of Mathematics Education (PMENA), Atlanta, United States Of America, 23 - 26 September 2009, pp.1261-1265



- L. **Developing Algebraic Thinking through Multiple Representations When a Symbolic Answer Is Not Enough**  
AKYÜZ D., Andreasen J., Cristwell P.  
Eighty-Seventh Annual Meeting of National Council of Teachers of Mathematics (NCTM), Washington, Kiribati, 22 - 25 April 2009
- LI. **Diagnosis and Remediation of Common Misconceptions about Linear and Quadratic Equations**  
AKYÜZ D.  
56th Annual Conference of the Florida Council of Teachers of Mathematics (FCTM), Jacksonville, United States Of America, 16 - 18 October 2008

## Supported Projects

- AKYÜZ D., Project Supported by Higher Education Institutions, Geometri'nin Argümantasyona Dayalı bir Teknoloji Kullanımı ile Öğretilmesi, 2018 - 2019
- AKYÜZ D., Project Supported by Higher Education Institutions, Matematik Öğretmen Adaylarının Geometri Öğretimini Destekleyen Teknoloji Tabanlı Öğretim İçeriklerinin Geliştirilmesi, 2016 - 2016
- AKYÜZ D., Project Supported by Higher Education Institutions, Öğretmen Adaylarının Somut Materyal Ve Teknoloji Kullanarak Problem Çözme Stratejileri, 2012 - 2014

## Scientific Refereeing

- JOURNAL OF MATHEMATICS TEACHER EDUCATION, Journal Indexed in SSCI, December 2019
- Project Supported by Higher Education Institutions, BAP Research Project, Middle East Technical University, Turkey, November 2018
- Project Supported by Higher Education Institutions, BAP Research Project, Middle East Technical University, Turkey, November 2018
- Project Supported by Higher Education Institutions, BAP Research Project, Middle East Technical University, Turkey, November 2018

## Tasks In Event Organizations

- Akyüz D., Vth International Eurasian Educational Research Congress, Bilimsel Kongre veya Sempozyum Organizasyonu, Scientific Congress, Antalya, Turkey, Mayıs 2018

## Citations

- Total Citations (WOS):110  
h-index (WOS):4

## Invited Talks

- Geogebra, Seminar, Ankara Üniversitesi Geliştirme Vakfı Okulları, Turkey, September 2018