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Personal Information

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International Researcher IDs

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Publons / Web Of Science ResearcherID: AAZ-8292-2020

ScopusID: 36008113800

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Education Information

Doctorate, Syracuse University, School of Education, Teaching and Leadership, United States Of America 2000 - 2006

Postgraduate, Celâl Bayar Üniversitesi, Fen Bilimleri Enstitüsü, Matematik (Dr), Turkey 1995 - 1998

Undergraduate, Middle East Technical University, Faculty of Education, Matematik Ve Fen Bilimleri Eğitimi Bölümü, Turkey 1991 - 1995

Foreign Languages

English, C1 Advanced

Dissertations

Doctorate, Recollected Changes in Mathematics Teachers' Beliefs and Practices: Perceptions and Psychological Type Preferences, Syracuse University, 2006

Postgraduate, Geometry of Time-Like Surfaces, Manisa Celal Bayar University, 1998

Research Areas

Social Sciences and Humanities, Education, Teacher Training For Elementary Sch. Edu. in Mathematics, Teacher Training in Science and Math. at Primary Sch. Level, Teacher Training, Teacher Training For Secondary School, Teacher Training in Science and Math. at Second. Sch. Lev.

Academic Titles / Tasks

Associate Professor, Middle East Technical University, Faculty of Education, Mathematics and Science Education, 2013 - Continues

Assistant Professor, Middle East Technical University, Faculty of Education, Mathematics and Science Education, 2009 - 2013

Lecturer PhD, Middle East Technical University, Faculty of Education, Mathematics and Science Education, 2006 - 2009
Research Assistant, Syracuse University, School Of Education, Teaching And Leadership, 2005 - 2006

Courses

M. S. Seminar, Postgraduate, 2020 - 2021
Issues in Mathematics Teacher Education, Doctorate, 2019 - 2020
Instructional Principles and Methods, Undergraduate, 2019 - 2020
Approaches to Teaching and Learning Mathematics, Undergraduate, 2019 - 2020

Advising Theses

Çetinkaya B., Investigating pre-service and in-service mathematics teachers' assessment literacy: Suggestions for an effective teacher education program, Postgraduate, B.ŞAHİN(Student), 2023
Çetinkaya B., AN ANALYSIS OF NINTH GRADE MATHEMATICS MODELING ACTIVITY BOOK BASED ON MODEL-ELICITING ACTIVITY DESIGN PRINCIPLES, Postgraduate, E.NUR(Student), 2023
Çetinkaya B., Examination of core values in the middle and high school mathematics textbooks, Postgraduate, Ş.AYDIN(Student), 2023
ÇETİNKAYA B., An investigation of pre-service mathematics teachers' semiotic representations and modeling routes in a mathematical modeling activity, Postgraduate, M.ÇETİNBAŞ(Student), 2022
Erbaş A. K., ÇETİNKAYA B., Towards defining biology teacher educator competencies: A delphi study, Doctorate, F.KOYUNCU(Student), 2020
ÇETİNKAYA B., Prospective middle school mathematics teachers' developing understanding of geometric transformations, Doctorate, S.AVCU(Student), 2017
ÇETİNKAYA B., Secondary mathematics teachers' mathematics related beliefs throughout a professional development program based on mathematical modelling, Doctorate, D.ÖREN(Student), 2015
ÇETİNKAYA B., Reasoning about and graphing the relationship between covarying quantities: The case of high school students and prospective mathematics teachers, Postgraduate, S.SOFUOĞLU(Student), 2015
Erbaş A. K., Çetinkaya B., A comparative analysis of mathematics teacher content knowledge examinations in Turkey and Texas, Postgraduate, N.YILMAZ(Student), 2014
ERBAŞ A. K., ÇETİNKAYA B., An Investigation of teachers' noticing of students' mathematical thinking in the context of a professional development program, Doctorate, S.Baş(Student), 2014
ERBAŞ A. K., ÇETİNKAYA B., An investigation of teachers' noticing of students' mathematical thinking in the context of a professional development program, Doctorate, S.BAŞ(Student), 2013
ÇETİNKAYA B., ERBAŞ A. K., An investigation of prospective teachers' mathematical modelling processes and their views about factors affecting these processes, Doctorate, A.ŞEN(Student), 2013
ÇETİNKAYA B., ERBAŞ A. K., An Investigation of prospective teachers' mathematical modelling processes and their views about factors affecting these processes, Doctorate, A.Şen(Student), 2013
ÇETİNKAYA B., ERBAŞ A. K., Pre-service elementary mathematics teachers' views about using graphing calculators in elementary school algebra: the case of using Classpad, Postgraduate, M.Kaplan(Student), 2011
ERBAŞ A. K., ÇETİNKAYA B., Pre-service elementary mathematics teachers' views about using graphing calculators in elementary school algebra: The case of using classpad, Postgraduate, M.KAPLAN(Student), 2010

Designed Lessons

Çetinkaya B., Çakroğlu E., Approaches to Teaching and Learning Mathematics, Undergraduate, 2019 - 2020

Published journal articles indexed by SCI, SSCI, and AHCI

- I. **Pre-service Mathematics Teachers' Understanding of Rate of Change Throughout a Model Development Sequence**
KERTİL M., ERBAŞ A. K., ÇETİNKAYA B.
International Journal of Science and Mathematics Education, vol.21, no.6, pp.1769-1796, 2023 (SSCI)
- II. **Developing prospective teachers' covariational reasoning through a model development sequence**
Kertil M., Erbaş A. K., Çetinkaya B.
MATHEMATICAL THINKING AND LEARNING, vol.21, pp.207-233, 2019 (SSCI)
- III. **Understanding Prospective Teachers' Mathematical Modeling Processes in the Context of a Mathematical Modeling Course**
Sen Zeytun A., Çetinkaya B., Erbaş A. K.
EURASIA JOURNAL OF MATHEMATICS SCIENCE AND TECHNOLOGY EDUCATION, vol.13, pp.691-722, 2017 (SSCI)
- IV. **Pre-service Teachers' Developing Conceptions about the Nature and Pedagogy of Mathematical Modeling in the Context of a Mathematical Modeling Course**
Çetinkaya B., Kertil M., Erbaş A. K., Korkmaz H., Alacacı C., Çakıroğlu E.
MATHEMATICAL THINKING AND LEARNING, vol.18, pp.287-314, 2016 (SSCI)
- V. **Matematik eğitiminde matematiksel modelleme Temel kavramlar ve farklı yaklaşımlar Mathematical modeling in mathematics education Basic concepts and different approaches**
Erbaş A. K., Kertil M., Çetinkaya B., Çakıroğlu E., Alacacı C., Baş S.
Kuram Ve Uygulamada Eğitim Bilimleri, vol.14, pp.1607-1627, 2014 (SSCI)
- VI. **Understanding Teachers in the Midst of Reform: Teachers' Concerns about Reformed Sixth Grade Mathematics Curriculum in Turkey**
ÇETİNKAYA B.
EURASIA JOURNAL OF MATHEMATICS SCIENCE AND TECHNOLOGY EDUCATION, vol.8, no.3, pp.155-166, 2012 (SSCI)
- VII. **Psychometric Properties of the Turkish Adaptation of the Mathematics Teacher Efficacy Belief Instrument for In-Service Teachers**
Cetinkaya B., ERBAŞ A. K.
SPANISH JOURNAL OF PSYCHOLOGY, vol.14, no.2, pp.956-966, 2011 (SSCI)
- VIII. **Teachers' knowledge about ninth grade students' ways of algebraic thinking, Öğretmenlerin dokuzuncu sınıf öğrencilerinin cebirsel düşünme yapılarıyla ilgili bilgileri**
Baş S., Erbaş A., Çetinkaya B.
EGİTİM VE BİLİM, vol.36, pp.41-55, 2011 (SSCI)
- IX. **Teachers' Knowledge about Ninth Grade Students' Ways of Algebraic Thinking**
Bas S., ERBAŞ A. K., ÇETİNKAYA B.
EGİTİM VE BİLİM-EDUCATION AND SCIENCE, vol.36, no.159, pp.41-55, 2011 (SSCI)
- X. **Mathematics Teachers' Covariational Reasoning Levels and Predictions about Students' Covariational Reasoning Abilities**
Sen Zeytun A., Çetinkaya B., Erbaş A. K.
KURAM VE UYGULAMADA EGİTİM BİLİMLERİ, vol.10, no.3, pp.1601-1612, 2010 (SSCI)
- XI. **Mathematics teachers' covariational reasoning levels and predictions about students' covariational reasoning abilities**
Şen Zeytun A., Çetinkaya B., Erbaş A.
Kuram ve Uygulamada Eğitim Bilimleri, vol.10, no.3, pp.1573-1612, 2010 (SSCI)
- XII. **Öğrencilerin Basit Doğrusal Denklemlerin Çözümünde Karşılaştıkları Güçlükler ve Kavram Yanılgıları Student Difficulties and Misconceptions in Solving Simple Linear Equations**
Erbaş A. K., Çetinkaya B., Ersoy Y.
Eğitim Ve Bilim-Education And Science, vol.34, pp.44-59, 2009 (SSCI)

Articles Published in Other Journals

- I. **Why do prospective teachers have difficulties in mathematical modelling? Insights from their perspectives**
Sen Zeytun A., Çetinkaya B., Erbaş A. K.
International Journal of Mathematical Education in Science and Technology, vol.55, no.1, pp.94-117, 2024 (ESCI)
- II. **Secondary mathematics teachers' noticing of students' mathematical thinking through modeling-based teacher investigations**
Bas-Ader S., ERBAŞ A. K., ÇETİNKAYA B., Alacaci C., ÇAKIROĞLU E.
MATHEMATICS EDUCATION RESEARCH JOURNAL, vol.35, pp.81-106, 2023 (ESCI)
- III. **An instructional unit for prospective teachers' conceptualization of geometric transformations as functions**
Avcu S., Çetinkaya B.
INTERNATIONAL JOURNAL OF MATHEMATICAL EDUCATION IN SCIENCE AND TECHNOLOGY, vol.52, no.5, pp.669-698, 2021 (ESCI)
- IV. **Mathematics teachers' knowledge and skills about questioning in the context of modeling activities**
Yenmez A. A., Erbaş A. K., Çakıroğlu E., Çetinkaya B., Alacaci C.
TEACHER DEVELOPMENT, vol.22, pp.497-518, 2018 (ESCI)
- V. **Developing teachers' models for assessing students' competence in mathematical modelling through lesson study**
Yenmez A. A., Erbaş A. K., Çakıroğlu E., Alacaci C., Çetinkaya B.
INTERNATIONAL JOURNAL OF MATHEMATICAL EDUCATION IN SCIENCE AND TECHNOLOGY, vol.48, pp.895-912, 2017 (ESCI)
- VI. **Evolution of Mathematics Teachers' Pedagogical Knowledge when They are Teaching through Modeling**
Yenmez A. A., Erbaş A. K., Alacaci C., Çakıroğlu E., Çetinkaya B.
INTERNATIONAL JOURNAL OF EDUCATION IN MATHEMATICS SCIENCE AND TECHNOLOGY, vol.5, pp.317-332, 2017 (ESCI)
- VII. **Pre-service Elementary Mathematics Teachers' Ways of Thinking about Rate of Change in the Context of a Modeling Activity**
Kertil M., Erbaş A. K., Çetinkaya B.
Türk Bilgisayar ve Matematik Eğitimi Dergisi, vol.8, no.1, pp.188-217, 2017 (Peer-Reviewed Journal)
- VIII. **Exploring prospective secondary mathematics teachers' interpretation of student thinking through analysing students' work in modelling**
Kabar M. G. D., Erbaş A. K., Çetinkaya B., Çakıroğlu E., Alacaci C.
MATHEMATICS EDUCATION RESEARCH JOURNAL, vol.28, pp.349-378, 2016 (ESCI)
- IX. **Problem çözememe problemimiz ve matematiksel modelleme**
ERBAŞ A. K., ÇETİNKAYA B.
Türkiye Bilimler Akademisi (TÜBA)-Günce, no.51, pp.72-75, 2016 (Non Peer-Reviewed Journal)
- X. **Investigating prospective mathematics teachers' pedagogical approaches in response to students' errors in the context of mathematical modeling activities Matematik öğretmen adaylarının öğrenci hatalarına yönelik pedagojik yaklaşımlarının matematiksel modelleme etkinlikleri bağlamında incelenmesi**
Didiş M. G., Erbaş A. K., Çetinkaya B.
Elementary Education Online, vol.15, pp.1367-1384, 2016 (Scopus)
- XI. **Öğrenci çalışmalarını incelemenin öğrenci düşünme şekillerini anlamadaki rolü ile ilgili matematik öğretmen adaylarının düşünceleri**
Didiş M. G., Erbaş A. K., Çetinkaya B., Çakıroğlu E., Alacaci C.
Turkish Journal of Computer and Mathematics Education, vol.6, pp.139-162, 2015 (Peer-Reviewed Journal)
- XII. **Prospective secondary mathematics teachers interpretations of students thinking**
Didiş M. G., Erbaş A. K., Çetinkaya B., Çakıroğlu E.

RESEARCH IN MATHEMATICS EDUCATION, vol.16, pp.77-78, 2014 (Scopus)

- XIII. **A comparison of secondary school mathematics curriculum guidebooks: Turkey, Germany and Canada**
Güzel İ., Karataş İ., Çetinkaya B.
Turkish Journal of Computer and Mathematics Education, no.1, pp.309-327, 2010 (Peer-Reviewed Journal)
- XIV. **Meslek Lisesi Öğrencilerinin Doğrusal ve Sabit Fonksiyon ile Bunların Grafikselleştirilmesine İlişkin Algıları Vocational High School Students Perceptions on Linear and Constant Functions with their Graphical Representation**
HATISARU V., ÇETİNKAYA B.
Eskişehir Osmangazi Üniversitesi Sosyal Bilimler Dergisi, vol.11, pp.67-88, 2010 (Peer-Reviewed Journal)
- XV. **Exploring the Quality of the Mathematical Tasks in the New Turkish Elementary School Mathematics Curriculum Guidebook the Case of Algebra**
Ubuz B., Erbaş A. K., Çetinkaya B., Özgeldi M.
ZDM - Mathematics Education, vol.42, pp.483-491, 2010 (Peer-Reviewed Journal)
- XVI. **Using an online portfolio course in assessing students work**
Yılmaz H., Çetinkaya B.
The Turkish Online Journal of Educational Technology, vol.6, no.4, pp.80-85, 2007 (Peer-Reviewed Journal)

Books & Book Chapters

- I. **Developing conscious citizens through mathematical modeling**
Adigüzel Sari Ç., Çetinkaya B., Erbaş A. K.
in: Researching mathematical modelling education in disruptive times, Siller Hans-Stefan, Geiger Vince, Kaiser Gabriele, Editor, Springer, London/Berlin , Zürich, pp.493-503, 2024
- II. **Desirable features of mathematical tasks: Views of mathematics teacher educators**
Alacacı C., Çetinkaya B., Erbaş A. K.
in: Research Studies on Learning and Teaching of Mathematics, Cai Jinfa, Stylianides Gabriel J., Kenney Patricia Ann, Editor, Springer, London/Berlin , Zürich, pp.131-155, 2023
- III. **Akıl yürütme ve matematiksel modelleme [Reasoning and mathematical modeling]**
Kertil M., Çetinkaya B., Erbaş A. K.
in: Okul öncesinden liseye matematiksel akıl yürütme, Arzu Aydoğan-Yenmez; Semirhan Gökçe, Editor, Anı Yayıncılık, Ankara, pp.74-103, 2022
- IV. **Lise matematik konuları için günlük hayattan modelleme soruları**
Erbaş A. K., Çetinkaya B., Alacacı C., Çakıroğlu E., Aydoğan Yenmez A., Şen Zeytin A., Korkmaz H., Kertil M., Didiş M. G., Baş S., et al.
Türkiye Bilimler Akademisi, Ankara, 2016
- V. **Matematik eğitiminde matematiksel modelleme**
Kertil M., Çetinkaya B., Erbaş A. K., Çakıroğlu E.
in: Matematik eğitiminde teoriler, E. Bingölbali, S. Arslan, & İ. Ö. Zembat, Editor, Pegem A Yayıncılık, Ankara, pp.539-563, 2016
- VI. **Değişim oranı olarak türev ve tarihsel gelişimi**
Çetinkaya B., Erbaş A. K., Alacacı C.
in: Tanımları ve tarihsel gelişimleriyle matematiksel kavramlar, M. F. Özmantar, H. Şandır, A. Delice, E. Bingölbali, & İ. Ö. Zembat, Editor, Pegem A Yayıncılık, Ankara, pp.529-555, 2013
- VII. **Conic sections and their historical development**
Alacacı C., Erbaş A. K., Çetinkaya B.
in: Tanımları ve tarihsel gelişimleriyle matematiksel kavramlar, M. F. Özmantar, H. Şandır, A. Delice, E. Bingölbali, & İ. Ö. Zembat, Editor, Pegem A Yayıncılık, Ankara, pp.291-308, 2013
- VIII. **Polynomials with their importance and historical development**
Erbaş A. K., Çetinkaya B., Alacacı C.

in: Tanımları ve tarihsel gelişimleriyle matematiksel kavramlar, M. F. Özmantar, H. Şandır, A. Delice, E. Bingölbali, & İ. Ö. Zembat, Editor, Pegem A Yayıncılık, Ankara, pp.371-386, 2013

Refereed Congress / Symposium Publications in Proceedings

- I. **An investigation of pre-service mathematics teachers' modeling routes in a technology-integrated mathematical modeling activity**
Çetinbaş M., ÇETİNKAYA B.
6th International Symposium on Turkish Computer and Mathematics Education, Ankara, Turkey, 28 October 2023
- II. **15th National Science and Mathematics Education Congress**
Adıgüzel-Sarı Ç., ÇETİNKAYA B.
Öğretmen adaylarının bir matematiksel modelleme sorusu kapsamındaki varsayımları, Kars, Turkey, 27 - 30 September 2023
- III. **Matematik öğretmen adaylarının göç konusuna ilişkin kurdukları problemler**
Adıgüzel-Sarı Ç., ÇETİNKAYA B., ERBAŞ A. K.
15th National Science and Mathematics Education Congress, Kars, Turkey, 27 September 2023
- IV. **Matematik öğretmenlerine göre toplumda matematik [According to mathematics teachers, mathematics in society]**
Adıgüzel Sarı Ç., ÇETİNKAYA B.
10th International Eurasian Educational Research Congress, Ankara, Turkey, 08 June 2023, pp.936-938
- V. **Developing conscious citizens through mathematical modeling**
ADIGÜZEL SARI Ç., ÇETİNKAYA B., ERBAŞ A. K.
20th International Community of Teachers of Modelling and Applications, Würzburg, Germany, 24 - 27 September 2022
- VI. **Talking across professional communities: Teacher educator competencies in mathematics and in technology**
Alacacı C., Çetinkaya B., Erbaş A. K.
14th International Congress on Mathematical Education, Beijing, China, 11 - 18 July 2021, pp.1-4
- VII. **Prospective teachers' views about the sources of difficulties they experienced in mathematical modeling**
Zeytun A. Ş., Çetinkaya B., Erbaş A. K.
8th International Eurasian Educational Research Congress , Aksaray, Turkey, 7 - 10 July 2021, pp.646-647
- VIII. **Mathematical creativity in mathematics textbook: A case study with fractions unit in fifth grade**
Adıgüzel Ç., Erbaş A. K., Çetinkaya B.
8th International Eurasian Educational Research Congress , Aksaray, Turkey, 7 - 10 July 2021, pp.657-659
- IX. **Professional competencies that mathematics teacher educators should have: Reflections from a workshop**
Çetinkaya B., Erbaş A. K., Celikdemir K., Koyuncu F., Kol M., Alacacı C.
39th annual meeting of the North American Chapter of the International Group for the Psychology of Mathematics Education , Indiana, United States Of America, 5 - 08 October 2017, pp.491-494
- X. **Matematik öğretmen, yetiştirmek için gerekli matematik bilgisi: Ne bilmeli? Ne düzeyde bilmeli? Ne şekilde bilmeli?**
ERBAŞ A. K., ÇETİNKAYA B., ALACACI C., KOYUNCU F., ÇELİKDEMİR K., KOL M., YILMAZ N., CANSU KURT Ü.
3. Türk Bilgisayar ve Matematik Eğitimi Sempozyumu Bildiri Özetleri Kitabı, Afyon, Turkey, 17 - 19 May 2017, pp.60-61
- XI. **Anticipating Students' Thinking through Lesson Study: A Case Study with Three Prospective Middle School Mathematics Teachers.**
YILMAZ N., YETKİN ÖZDEMİR İ. E., ÇETİNKAYA B.
10th Congress of European Research in Mathematics Education, Dublin, Ireland, 1 - 05 February 2017
- XII. **İlköğretim matematik öğretmen adaylarının dönme dönüşümü ile ilgili bilgilerinin incelenmesi**

Avcu S., Çetinkaya B.

3. Türk Bilgisayar ve Matematik Eğitimi Sempozyumu, Afyonkarahisar, Turkey, 17 - 19 May 2017, pp.146-148

- XIII. **Kovaryasyonel değişkenlerin grafikleştirilmesinde düzgün ve düzgün parçalı grafik çizen öğrencilerin değişim varyansı bazında düşünme süreçleri**

Sofuoğlu S., Çetinkaya B.

3. Türk Bilgisayar ve Matematik Eğitimi Sempozyumu, Afyonkarahisar, Turkey, 17 - 19 May 2017, pp.139-141

- XIV. **Overcoming the first obstacle in teaching integral conceptually: Associating derivative-integral**
Meşe D., Çetinkaya B.

4. International Eurasian Educational Research Congress, Denizli, Turkey, 11 - 14 May 2017, pp.963-965

- XV. **Matematik öğretmen eğitimcisi yeterlikleri: Öğretmenlerin, doktora öğrencilerinin ve öğretmen eğitimcilerinin öncelikleri**

Erbaş A. K., Kol M., Çetinkaya B., Cansu Kurt Ü.

IVth International Eurasian Educational Research Congress , Denizli, Turkey, 11 - 14 May 2017, pp.986-989

- XVI. **Development of Teaching Materials**

DİDİŞ KABAR M. G., BAŞ S., ÇAKIROĞLU E., ERBAŞ A. K., ÇETİNKAYA B., ALACACI C.

ICME-13, 24 - 31 July 2016

- XVII. **Researchers experience of developing mathematical modeling tasks for secondary levels**

DİDİŞ M. G., BAŞ S., ÇAKIROĞLU E., ERBAŞ A. K., ÇETİNKAYA B., ALACACI C.

13th International Congress on Mathematical Education, Hamburg, Germany, 24 - 31 July 2016

- XVIII. **Ortaokul matematik öğretmen adaylarının dikey matematikselleştirme sürecinin bir matematiksel modelleme etkinliği bağlamında incelenmesi**

KOL M., ERBAŞ A. K., ÇETİNKAYA B.

Türk Bilgisayar ve Matematik Eğitimi Sempozyumu - 2, Adıyaman, Turkey, 16 - 18 May 2015, pp.120

- XIX. **Öğretmen adaylarının iki niceliğin eş zamanlı değişimini içeren durumları modellerken grafik oluşturma ve yorumlama süreçlerinin incelenmesi**

KERTİL M., ÇETİNKAYA B., ERBAŞ A. K.

11. Ulusal Fen ve Matematik Eğitimi Kongresi (UFBMEK-XI), Turkey, 11 - 14 November 2014, pp.157-158

- XX. **Prospective Secondary Mathematics Teachers' Interpretations of Students' Thinking**

DİDİŞ KABAR M. G., ERBAŞ A. K., ÇETİNKAYA B., ÇAKIROĞLU E.

British Society for Research into Learning Mathematics (BSRLM), 9 - 10 November 2013, vol.33, pp.19-24

- XXI. **Lise matematik öğretmenlerinin modelleme ve modellemenin matematik öğretiminde kullanılmasına yönelik düşünceleri Bir hizmet içi eğitim programının etkisi**

ÖREN VURAL D., ÇETİNKAYA B., ERBAŞ A. K., ALACACI C., ÇAKIROĞLU E.

I. Türk Bilgisayar ve Matematik Eğitimi Sempozyumu, Turkey, 20 - 22 June 2013

- XXII. **An investigation on students' degree of acquisition related to van Hiele level of geometric reasoning: A case of 6-8th graders in Turkey**

KOÇ Y., İSİKSAL BOSTAN M., SEVİŞ Ş., OSMANOĞLU A., ÇETİNKAYA B., AŞKUN C. S., BULUT S.

Eighth Congress of European Research in Mathematics Education (CERME 8), 6 - 10 February 2013

- XXIII. **Teachers as investigators of students' written work: Does this approach provide an opportunity for professional development?**

BAŞ ADER S., DİDİŞ KABAR M. G., ERBAŞ A. K., ÇETİNKAYA B., ÇAKIROĞLU E., ALACACI C.

Eighth congress of the European Society of Research in Mathematics Education (CERME 8), 6 - 10 February 2013, pp.2936-2945

- XXIV. **Solo modeli ile uzamsal gorselleştirme becerilerinin ölçülmesi**

KOC Y., İSİKSAL BOSTAN M., OSMANOĞLU A., ÇETİNKAYA B., AŞKUN C. S., BULUT S., SEVİŞ Ş., ESEN Y.

10. Matematik Sempozyumu, Turkey, 21 - 23 September 2011

- XXV. **INVESTIGATING PRE-SERVICE TEACHERS' UNDERSTANDING OF RATE OF CHANGE AND DERIVATIVE GRAPHS THROUGH A MODEL DEVELOPMENT SEQUENCE**

Kertil M., Didis M. G., ERBAŞ A. K., ÇETİNKAYA B.

35th Annual Conference of the International-Group-for-the-Psychology-of-Mathematics-Education (PME), Ankara, Turkey, 10 - 15 July 2011, pp.333

- XXVI. **USING HISTORY OF MATHEMATICS IN TEACHING MATHEMATICS: TEACHERS' VIEWS**
Hatisaru V., ERBAŞ A. K., ÇETİNKAYA B.
35th Annual Conference of the International-Group-for-the-Psychology-of-Mathematics-Education (PME), Ankara, Turkey, 10 - 15 July 2011, pp.312
- XXVII. **UNDERSTANDING PRE-SERVICE MATHEMATICS TEACHERS' DIFFICULTIES IN CONSTRUCTING A MATHEMATICAL MODEL**
Sen-Zeytun A., ÇETİNKAYA B.
35th Annual Conference of the International-Group-for-the-Psychology-of-Mathematics-Education (PME), Ankara, Turkey, 10 - 15 July 2011, pp.387
- XXVIII. **ASSESSING STUDENTS' LISTENING SKILLS: A CASE STUDY**
Hatisaru V., ÇETİNKAYA B.
35th Annual Conference of the International-Group-for-the-Psychology-of-Mathematics-Education (PME), Ankara, Turkey, 10 - 15 July 2011, pp.311
- XXIX. **Pre-service physics teachers'xx difficulties in constructing mathematical models of simple harmonic motion**
SenZeytun A., ÇETİNKAYA B., YILDIRIM U., ERBAŞ A. K.
14th International Conference on the Teaching of Mathematical Modelling and Applications, 27 - 31 July 2009
- XXX. **Pre-service physics teachers' difficulties in constructing mathematical models of simple harmonic motion**
Şen Zeytun A., Çetinkaya B., Yıldırım U., Erbaş A. K.
14th International Conference on the Teaching of Mathematical Modelling and Applications, Hamburg, Germany, 27 - 31 July 2009
- XXXI. **6(TH) GRADE MATHEMATICS TEACHERS' CONCERNS ABOUT A REFORMED MATHEMATICS CURRICULUM**
ÇETİNKAYA B., Oren D., Aydın U., ERBAŞ A. K.
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Non Academic Experience

METU

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