Curriculum Vitae:

Abedallah Rababah,

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Jordan University of Science and Technology, JUST
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Home-page: https://www.researchgate.net/profile/Abedallah_Rababah
www.just.edu.jo/∼rababah

Personal Data and Stats:
Languages: Fluent in both English and German.
Erdös Number: 3 (One of the lowest).
RG Impact Factor: > 70 (One of the highest).
Publications: more than 100 publications in Mathematics and Computer Science. (Single author in almost all publications and the first author in the remaining publications.)

Editorial Activities:

- Associate editor of **Journal of Computer Science**,
- Editor of **Communications in Mathematics and Applications**,
- Editor of **International Journal of Advanced and Applied Sciences**,
- Editor of **Applied Mathematical and Computational Sciences**,
- Editor of **Jordanian Journal of Mathematics and Statistics**,
- Editor of **International Journal of Advanced and Applied Sciences**,
- Editor of **DJ Journal of Engineering and Applied Mathematics**,
- Editor of **Oriental Journal of Computer Science and Technology**,
- Editor of **Journal of Advances in Computer Engineering and Technology**,
- Editor of **Fractal Geometry and Nonlinear Analysis in Medicine and Biology**,
- Editor of **Computer Science Communications and Applications**,
- Editor of **International Journal of Numerical Methods and Applications**,
- Honorable Editor of **Advances in Computer Sciences**,
- Editor of **Proceedings of the First Symposium on Curves and Surfaces (ACS 2014)**, Rhodes, Greece, September 22-28, 2014 (Published by AIP, ISI, SCOPUS),
- Editor of **Proceedings of the Second Symposium on Approximation of Curves and Surfaces (ACS 2015)**, Rhodes, Greece, September 23-29, 2015 (Published by AIP, ISI, SCOPUS),

- Editor of **Proceedings of the Third Symposium on Approximation of Curves and Surfaces (ACS 2016)**, Rhodes, Greece, September 19-25, 2016 (Published by AIP, ISI, SCOPUS),

- Guest editor of **Special Issue on "Numerical Analysis and Application"**, Published by Communications in Mathematics and Applications, Vol. 8, No. 2, 2017,

- Editor of **Proceedings of the Fourth Symposium on Approximation of Curves and Surfaces (ACS 2017)**, Thessaloniki, Greece, September 25-30, 2017 (To be Published by AIP, ISI, SCOPUS),

- Supervising the authorship of the books for school mathematics: For the classes from 6−th to 12−th class.

EDUCATION:

- Ph.D. in Applied Mathematics-Numerical Analysis, Approximation Theory, and Computer Aided Geometric Design (CAGD), University of Stuttgart, **West Germany, 1992**.

- M.Sc. in Mathematics-Applied Mathematics, Yarmouk University, **Jordan, 1988**.

- B.Sc. in Mathematics and Statistics, Yarmouk University, **Jordan, 1986**.

THESES:

- Ph.D. Thesis entitled: **"Polynomial and spline approximation of curves"**, supervised by **Prof. Klaus Höllig**.

- M.Sc. Thesis entitled: **"On Hermite-Fejér interpolation to functions of bounded variation based on the zeros of certain Jacobi polynomials"**, supervised by **Prof. Radwan Al-Jarrah**.

RESEARCH INTERESTS: My research interests include: Applied Mathematics-Numerical Analysis, Approximation Theory, Computer Graphics, CAD, and Computer Aided Geometric Design.

ACADEMIC CAREER:

- September 2013-August 2015, Head of Department of Mathematics and Statistics, Jordan University of Science and Technology (JUST), **Jordan**.

- September 2012-Present, Professor, Department of Mathematics and Statistics and Department of Computer Science (joint appointment), Jordan University of Science and Technology (JUST), **Jordan**.

- September 2009-August 2012, Professor, David R. Cheriton School of Computer Science, Faculty of Mathematics, University of Waterloo, Waterloo, Ontario, **Canada**.

- August 2005-August 2009, Associate Professor, Department of Mathematics and Statistics and Department of Computer Science (joint appointment), JUST, **Jordan**.

- September 2000-August 2005, Assistant Professor, Department of Mathematics and Statistics and Department of Computer Science (joint appointment), JUST, **Jordan**.

- September 1995-August 2000, Assistant Professor, Department of Mathematics, Qatar Univer-

sity, **Qatar**.

- September 1994-August 1995, Assistant Professor, Department of Mathematics, Yarmouk University, **Jordan**.

- September 1992-August 1994, Assistant Professor, Mathematics Institute B, University of Stuttgart, **West Germany**.

- September 1989-August 1992, Research and teaching assistant, Mathematics Institute A, University of Stuttgart, **West Germany**.

- September 1988-August 1989, Learning German language, Auslandsinstitute, Dortmund, **West Germany**.

- September 1986-June 1988, Teaching assistant, Department of Mathematics, Yarmouk University, **Jordan**.

TEACHING EXPERIENCE:

- University of Waterloo, **Canada** (September 2009-August 2012):
  I taught Math 211: Advanced Calculus for Electrical and Computer Engineering (ECE) Students (Ordinary Differential Equations, Laplace Transform, Fourier Series, and Partial Differential Equations):
  https://ece.uwaterloo.ca/∼math211/Outline/
  CS 488 and CS 688: Computer Graphics (Undergraduate and Graduate Courses):
  http://www.student.cs.uwaterloo.ca/∼cs488/
  and Math 127: Calculus I for the Sciences:

- University of Stuttgart, **West Germany** (September 1992-August 1994):
  I taught Calculus I , II, and III, Differential Geometry, Linear Algebra, Analytic Geometry, and Curves and Surfaces in Computer Aided Geometric Design.

- Jordan University of Science and Technology, **Jordan** (September 2000-2009 and September 2012-Present), Qatar University, **Qatar** (September 1995-August 2000), and Yarmouk University, **Jordan** (September 1994-August 1995):
  I have taught repeatedly most of the undergraduate level courses. I list, in particular, the following courses: Calculus I , II, III & IV, Calculus for Biological Sci., Linear Algebra, Analytic Geometry, Introduction to Approximation Theory, Numerical Analysis I & II, Partial Differential Equations, Ordinary Differential Equations, Discrete Mathematics, Mathematical Methods, Computer Graphics, Programming and Scientific Computations I & II, Operations Research, and Linear Programming.
  Approximation Theory (Graduate Level), Numerical Analysis I and II (Graduate Levels), Independent Study (Graduate Level), Special Topics in Applied Mathematics (Graduate Level), and Mathematics for Pharmaceutics (Graduate Level).

- **Furthermore**:
  - (Students' Evaluation) Although there are diverse of factors that affect the students' evaluation to their teachers, teachers should benefit from this feedback and consider it as a useful instrument that helps to improve the teaching's outcome and the students learning and satisfaction. Furthermore, giving the students the opportunity to share their opinion on the learning process encourages the students to be more responsible and improves the students' attitudes towards evaluating their teachers. This should be reflected on the

students' performance and they like the lecture that their teachers offer. My students always give me excellent feedback about the courses that I teach; this also encourages me to give my students more and more.

- (Courses Development) I developed the contents and teaching methods of the following courses: Numerical Analysis I, Numerical Analysis II, Numerical Methods, Higher Mathematics VI for Engineering Students, Programming and Scientific Computations I, Programming and Scientific Computations II.

- (Computer and Technology) As a Mathematics Professor, I am familiar with using technology and computer programming languages in research, teaching, and learning of Mathematics; these computer algebra systems include Maple, Mathematica, and Matlab.

- (Accreditation and Quality Assurance) Active participating in many workshops, training days, and symposiums in computer skills, mathematics education, accreditation, quality assurance, and interactive learning.

- ABET Accreditation for the Department of Mathematics, 2013-2015.

COMMITTEE SERVICE: During the period 1992-Present, I have served the following Committees:

- Community Level:
  - Member of the Council of Trustees of Jadara University, Jordan.
  - Member of the Board of Directors of Jadara University, Jordan.
  - Member of the Society for Faculty Members of the Jordan Universities.
  - Member of Environmental Society and Cancer Education Society.
- University Level at Jordan University of Science and Technology:
  - Member of the University Court, 2014-2015.
  - Member of the University Council, 2007-2008.
  - Member of the Saving Fund committee, 2007-2009.
- College Level:
  - Coordinator of the Committee of Proposing a Building for the Faculty of Science, 2013-2014.
  - Coordinator of the Faculty Scientific Day, 2013-2014.
  - Member of the Graduate Studies Committee, 2012-2015.
  - Member of the Research Committee, 2012-2015.
  - Member of the College Council, 2001-2002, 2013-2015.
  - Member of the Scientific Day and Seminars Committee, 2001-2002.
  - Member of the Internet Committee, 2001-2002.
  - Coordinator and Member of many promotion and other committees.
- Department Level at:
  - JUST, September 2000-August 2009 and September 2012-Present: Graduate Studies Committee, Library Committee, Research Committee, Students Advisory Committee, Social Committee, Course Description Committee, Qualifying Exam Committee.

– Qatar University, September 1995-August 2000: Course Description Committee, Computer Lab Committee, Department Coordinator with Engineering Faculty, Appointment Committee, Textbooks Committee, Cont. Learning and Society Service Committee, Students Advisory Committee, Social Committee.

– Yarmouk University, September 1994-August 1995: Computer Lab Committee, Graduate Studies Committee, Appointment Committee, Scholarship Committee, Qualifying Exam Committee.

– Stuttgart University, September 1992-August 1994: Computer Lab Committee, Research Committee, Seminar Committee, Social Committee, Student Advisory Committee.

– University of Waterloo, September 2009-August 2012: Seminar Committee, Computer Graphics Lab Committee, Research Committee.

MEMBERSHIP: I am/was member of the following mathematical societies and professional organizations:

- The American Mathematical Society, 1992-2000.
- The German Mathematical Society, 1992-Present.
- The IEEE Computer Society, 1995-2000.
- The Jordan Mathematical Society, 1992-Present.
- Society for Special Functions & their Applications, 2015-Present.

EDITORIAL AND REFEREEING ACTIVITIES: I have been serving as a referee, or editor, for the following Journals since 1992:

- (Editor-in-Chief/Associate Editor) for Journal of Computer Science,
- (Editorial Board) for Communications in Mathematics and Applications,
- (Editorial Board) for International Journal of Advanced and Applied Sciences,
- (Editorial Board) for Applied Mathematical and Computational Sciences,
- (Editorial Board) for DJ Journal of Engineering and Applied Mathematics,
- (Editorial Board) for The Jordanian Journal of Mathematics and Statistics,
- (Editorial Board) for Oriental Journal of Computer Science and Technology,
- (Editorial Board) for Journal of Advances in Computer Engineering and Technology,
- (Editorial Board) for Fractal Geometry and Nonlinear Analysis in Medicine and Biology,
- (Editorial Board) for Computer Science Communications and Applications,
- (Editorial Board) for International Journal of Numerical Methods and Applications,
- (Editor) of the Proceedings of the First Symposium on Curves and Surfaces, Rhodes, Greece, September 22-28, 2014 (Published by AIP, ISI, SCOPUS),
- (Editor) of the Proceedings of the Second Symposium on Approximation of Curves and Surfaces, Rhodes, Greece, September 23-29, 2015 (Published by AIP, ISI, SCOPUS),
- (Editor) of Proceedings of the Third Symposium on Approximation of Curves and Surfaces, Rhodes, Greece, September 19-25, 2016 (Published by AIP, ISI, SCOPUS),

- (Guest editor) of Special Issue on "Numerical Analysis and Application", published by Communications in Mathematics and Applications, Vol. 8, No. 2, 2017,

- (Editor) of Proceedings of the Fourth Symposium on Approximation of Curves and Surfaces, Thessaloniki, Greece, September 25-30, 2017 (To be Published by AIP, ISI, SCOPUS),

- Journal of Approximation Theory,

- Journal of Computer Mathematics,

- Journal of Mathematical Analysis and Applications,

- Journal of Computational and Applied Mathematics,

- Computer-Aided Design,

- Computer Aided Geometric Design,

- Computational Methods in Applied Mathematics,

- Computers and Graphics,

- Applied Mathematics and Computation,

- Zentralblatt für Mathematik,

- Mathematical Reviews,

- A referee for many promotions,

- External Examiner for many dissertations of graduate students,

- And local Journals: Mu'tah Sci. Journal; Abhath Al-Yarmouk Sci. Journal; Qatar University Sci. Journal; Jordan Journal of Mathematics.

Scholarships and Honors:

- A DAAD-Stipendium at Fakultät für Mathematik, Darmstadt Universität, Summer 2002.

- Mitarbeiter der Fakultät für Mathematik, Stuttgart Universität, September 1989-August 1992.

- Listed several times on the Faculty of Science Honor List, Yarmouk University, 1983-1986.

- Best five papers on Solid and Physical Modeling Conference, Dijon, **France**, 2012.

- I have got small grants to support my students and buy computers as follows: In 2001 (JD 1500); in 2012 (JD 1500); in 2013 (JD 5000); in 2014 (JD 4500).

- Awards of excellence for editorship in several journals.

Graduate Students' Supervision:

- I have supervised the following Master Students in mathematics and computer science:
  - Sabine Wengor, Geometrische Stetigkeit zwishen Bézierfläschen, 1993, University of Stuttgart, West Germany.
  - Mohammad Al-Qudah, Jacobi-weighted orthogonal polynomials on triangular domains, 2002, JUST.
  - Khaldoun Ayyal-Salman, Quadrature and cubature formulas, 2003, JUST.
  - Mohammad Al-Natour, Weighted dual functionals for univariate Bernstein polynomials,

2004, JUST.

– (Co-Supervisor) Osama Abo Eid, Enhancement of Keywords Extraction from Databases, 2007, JUST.

– Ashraf Alquran, Cubic and quartic high order approximation, 2007, JUST.

– Nidal Ababneh, Degree reduction of Bézier surfaces, 2008, JUST.

– Salisu Ibrahim, Weighted G^2 multi-degree reduction of Bézier curves, 2014, JUST.

– Yusuf Fatihu, Degree reduction of disk Bézier curves, 2014, JUST.

– Sadiya Rano, Methods for computing derivatives of the Jacobi polynomials using recurrence relations, 2014, JUST.

– Walaa Al-Kasasbeh, Orthogonal polynomials on the triangular domain, 2014, JUST.

– Ayman Al-Shbool, The transformation matrix of Chebyshev III Bernstein polynomial bases, 2014, JUST.

– Haneen Hinawi, Transformation between Gauss-Lobatto and Bernstein bases, 2015, JUST.

– Wesam Odaibat, Bernstein methods to solve differential equations, 2015, JUST.

– Wala Hijazi, Solving differential equations using the Jacobi polynomials, 2016, JUST.

– Alaa Badarneh, Methods of high order approximation for curves and surfaces, 2016, JUST.

– Israa Hijazi, Characterization of some types of Chebyshev polynomials, 2016, JUST.

– Anas AlKalani, Expansion of reciprocal polynomial using Chebyshev polynomials of the second kind, 2016, JUST.

– Maram Al-Jammal, Defining and solving some fractional differential equations, 2017, JUST.

– Zaid Khalaileh, Solution of linear second-order partial differential equations with mixed conditions using Bernstein polynomials and differentiation matrices, 2017, JUST.

– Asma Al-Sharqi, Construction of generalized orthogonal polynomials in Bernstein form on triangular domain, 2017, JUST.

• Current Students:

– (Ph. D. Thesis) Nora Mahloul, Polynmes de Krawtchouk et leurs applications, Universite des Sciences ed de la Technologie - HOUARI BOUMEDIENE, Algeria.

– (JUST) Moath Jaradat, Shihnaz Abo Ghazleh, Israa Rababah, Amani Thalji, and Rashed Rababa.

• I have served as a member of the examining committees for several graduate students at both levels of Master and Ph.D. in Jordan and abroad. I have been appointed as a member of the Board of Examiners for adjudicating the Ph.D. theses for several students.

BOOKS: I am the author/guest editor of the following books entitled:

• Author of "Programming and Scientific Computations", (1999), 370 pages, published by Qatar University, ISBN 999214656-7 (Textbook for 2 courses).

- Guest editor of the Proceedings of the First Symposium on Curves and Surfaces, Rhodes, Greece, 2014, Published by American Institute of Physics, Vol. 1648, (ISI, SCOPUS).

- Guest editor of the Proceedings of the Second Symposium on Approximation of Curves and Surfaces, Rhodes, Greece, 2015, Published by American Institute of Physics, Vol. 1738, (ISI, SCOPUS).

- Guest editor of the the Proceedings of the Third Symposium on Approximation of Curves and Surfaces, Rhodes, Greece, 2016, Published by American Institute of Physics, Vol. 1863, (ISI, SCOPUS).

- Guest editor of Special Issue on "Numerical Analysis and Applications", Published by Communications in Mathematics and Applications, Vol. 8, No. 2, 2017.

- Guest editor of the the Proceedings of the Fourth Symposium on Approximation of Curves and Surfaces, Thessaloniki, Greece, 2017, To be Published by American Institute of Physics, (ISI, SCOPUS).

- Supervising the authorship of the books for school mathematics: For the classes from 6-th to 12-th class.

- Author of "Numerical Analysis", A book in preparation.

PRESENTATIONS AND ABSTRACTS IN CONFERENCES: I have participated and/or presented talks in the following conferences:

1. 5Th INTERNATIONAL CONFERENCE ON RECENT ADVANCES IN PURE AND APPLIED MATHEMATICS, at Karadeniz Technical University Prof. Dr. Osman Turan Convention Center in Trabzon, **Turkey**, July 23-27, 2018.
    - Talk:
    - Invited Speaker
    - Scientific Committee

2. Fourth International Conference on Mathematics and Computing, Indian Institute of Technology, Varanasi, **India**, January 9-11, 2018.
    - Talk: Geometric degree reduction of Bézier curves
    - Invited Speaker
    - Technical Program Committee

   http://iitbhu.ac.in/icmc2018/apm/index.html

3. First International Conference on Computational and Mathematical Methods in Engineering & Technology, Melbourne, **Australia**, December 18-20, 2017. (Organizer of symposium: Orthogonal Polynomials: Theory and Applications.)
    - Honorary Conference Co-Chair
    - (Organizer of Symposium)
    - Member of International Advisory Committee

   http://icommet.net

4. Fifteenth International Conference of Numerical Analysis and Applied Mathematics, The MET Hotel, Thessaloniki, **Greece**, September 25-30, 2017. (Organizer of symposium: The Fourth

Symposium on Approximation of Curves and Surfaces (ACS 2017))

- Talk: Chebyshev reciprocal approximation.
- (Organizer of Symposium)
- Member of Scientific Committee
- Head of two sessions

http://www.icnaam.org/

5. 17th International Conference Computational and Mathematical Methods in Science and Engineering, Rota, Cadiz, **Spain**, July 4-8, 2017. (Organizer of symposium: Orthogonal Polynomials and Applications).
http://cmmse.usal.es/cmmse2017/welcome

6. Third International Conference on Networks & Communications, Dubai, **UAE**, May 27-28, 2017.

- Program Committee Member
- Reviewer

http://iccsea.org/2017/nwcom/program.html

7. Nineteenth International Conference on Geometry, Integrability and Quantization, Bulgaria, June 2-7, 2017. Talk: Best approximation of circular arcs of degree ten with twenty one equioscillations.
http://www.bio21.bas.bg/conference/

8. International Conference on Computational Mathematics and Engineering Sciences, Istanbul, Turkey, May 20 - 22, 2017.

- (Plenary Speaker) Talk: Multi-degree reduction of Said-Ball curves with endpoints constraints.
- Member of Scientific Committee
- Head of a session

https://cmes.sciencesconf.org/resource/page/id/21

9. International Conference on recent advances in pure and applied mathematics, Izmir, Turkey, May 11-15, 2017.

- Talk: Quadrature formula with high degree of exactness (Presented by Mohammad Bani Khaled).
- Poster: Best cubic spline interpolation based on minimizing the error (Presented by Mohammad Bani Khaled).
- Poster: On Chebyshev collocation method and applications to nonlinear integral equations (Presented by Nora Mahloul).
- Member of Scientific Committee

http://2017.icrapam.org/
http://2017.icrapam.org/files/abstract_book.pdf

10. Fourth Annual International Conference on Design, Manufacturing, and Mechatronics, Guangzhou, Guangdong, **China**, May 26-28, 2017.

- Technical Program Committee
- Reviewer

http://www.icdmm2017.org/

11. Third International Conference on Signal and Image Processing, Dubai, **UAE**, January 28-29, 2017.
    - Program Committee Member
    - Reviewer

    http://csen2016.org/2017/SIPRO/index.html

12. Fourteenth International Conference of Numerical Analysis and Applied Mathematics, Rodos Palace Hotel, Rhodes, **Greece**, September 19-25, 2016. (Organizer of symposium: The Third Symposium on Approximation of Curves and Surfaces (ACS 2016))
    - Talk: Weighted degree reduction of Bézier curves.
    - (Organizer of Symposium)
    - Member of Scientific Committee
    - Head of three sessions

    http://www.icnaam.org/

13. Third International Conference on recent advances in pure and applied mathematics, Bodrum, Turkey, May 19-23, 2016.
    - Talk: The best quadratic approximation of hyperbola with order four.
    - Head of three sessions

    http://2016.icrapam.org/
    http://2016.icrapam.org/images/AbsBook2016.pdf

14. 24th International Conference on Finite or Infinite Dimensional Complex Analysis and Applications, Anand International College of Engineering, Jaipur, August 22-26, 2016.
    - (Invited Speaker) Talk: On Hermite-Fejer interpolation of functions of bounded variation.
    - Member of Scientific Committee

    http://www.anandice.ac.in/24icfidcaa-2016/

15. International Conference on Special Functions & Applications, Jamia Millia Islamia - Central University, New Delhi, India, September 9 - 11, 2016.
    - (Invited Speaker) Poster: Chebyshev-Bernstein polynomial bases
    - Member of Scientific Committee

    http://www.ssfaindia.webs.com/index.htm

16. Thirteenth International Conference of Numerical Analysis and Applied Mathematics, Rodos Palace Hotel, Rhodes, **Greece**, September 23-28, 2015. (Organizer of a symposium: The Second Symposium on Approximation of Curves and Surfaces (ACS 2015))
    - Talk: Weighted G^2-multi-degree reduction of Bézier curves.
    - (Organizer of Symposium)
    - Member of Scientific Committee

- Head of three sessions

http://www.icnaam.org/

17. <u>A. Rababah</u> and Yusuf Fatihu, G^2-Multi-degree reduction of disk Bézier curves, ICNAAM 2015.

18. <u>A. Rababah</u> and Sadiya Rano, Methods for computing derivatives of the Jacobi polynomials using recurrence relations, ICNAAM 2015.

19. <u>A. Rababah</u> and Ayman Al-Shbool, The transformation matrix of Chebyshev III Bernstein polynomial basis, ICNAAM 2015.
http://icnaam.org/

20. International Conference on Special Functions and Applications (ICSFA-2015), Amity University New Delhi, Noida, September 10-12, 2015.

- (Invited Speaker) Talk: Techniques for computing orthogonal polynomials on triangular domains
- Member of Scientific Committee
- Head of three sessions
- The honor of awarding certificates to senior Mathematicians who significantly contributed to mathematics.

http://www.ssfaindia.webs.com/conf.htm

21. The 28th International Conference of the Jangjeon Mathematical Society (ICJMS'2015), Akdeniz University Antalya, **Turkey**, May 15-19, 2015.

- Talk: Recurrence relation for orthogonal polynomials on triangular domains.
- Head of two sessions

http://jms.akdeniz.edu.tr/en

22. Twelfth International Conference of Numerical Analysis and Applied Mathematics, Rodos Palace Hotel, Rhodes, Greece, **Greece**, September 23-29, 2014 (Organizer of a symposium: The First Symposium on Approximation of Curves and Surfaces (ACS 2014)).

- Talk: Quartic approximation of circular arcs using equioscillating error function
- (Organizer of Symposium)
- Member of Scientific Committee
- Head of three sessions

http://www.icnaam.org/

23. Michigan Computational Algebraic Geometry Conference, Western Michigan University, Kalamazoo, MI, **USA**. Talk: Improving the order of the Taylor method, May 3-4, 2013.
https://sites.google.com/site/michigancag/home

24. Solid and Physical Modeling (SPM12) Conference, University of Burgundy, Dijon, **France**, October 29-31, 2012. Talk: Linear methods for G^1, G^2, and G^3-multi-degree reduction of Bézier curves
http://spm12.u-bourgogne.fr

25. The SIAM/ACM Geometric and Physical Modeling (GD/SPM11) Conference, Orlando, Florida, **USA**, Linear methods for degree reduction of Bézier curves with geometric continuity, October

24-27, 2011, joint work, Talk presented by Stephen Mann.
http://www.siam.org/meetings/gdspm11/

26. The Fields Institute and Waterloo Workshop in Computer Algebra W80, Wilfrid Laurier University, Waterloo, **Canada**, May 26-29, 2011.
http://www.cargo.wlu.ca/W80/index.html

27. The OCCAM-Fields-MITACS Biomedical Problems Solving Workshop, University of Toronto, Toronto, **Canada**, June 22-26, 2009.
http://www.fields.utoronto.ca/programs/scientific/08-09/biomedical/

28. The Taylor Model Methods V, Fields Institute, Toronto, **Canada**, May 20-23, 2008, Talk: Hermite approximation with high accuracy for space curves in $\Re^d$, (One hour talk), can be viewed at:
http://www.fields.utoronto.ca/audio/07-08/taylor-model/rababah/

29. The Fourth Education Forum, Amman, April 24-25, 2007.

30. The Tenth Faculty Scientific Day at JUST, May 9-10, 2007, Talk: Degree reduction and approximation.

31. Korea Conference on Mathematical Methods for Curves and Surfaces, Busan, **South Korea**, January 9-11, 2006.

   - (Invited Speaker) Talk: Bivariate orthogonal polynomials on triangular domains
   - Member of Scientific Committee
   - Head of three sessions

   Talk can be viewed at:
   http://mathnet.kaist.ac.kr/Video/etc/etc.html

32. Conference on Interactive Mobile and Computer Aided Leaning (IMCL 2006) Amman, Jordan, April 19 - 21, 2006. Talk: The dual functions for the generalized Bernstein basis.
http://www.imcl-conference.org/

33. Ninth Faculty Scientific Day at JUST, May 9-10, 2006. Talk: Degree raising and reduction of triangular Bézier surfaces.

34. Numerical Analysis and Approximation Theory, Cluj-Napoca, **Romania**, July 5-8, 2006. Talk: Degree raising and reduction of Bézier surfaces
http://www.cs.ubbcluj.ro/ naat2006/

35. Conference on Shimura Varieties and Arakelov Geometry, CRM, Barcelona, **Spain**, July 10-15, 2006, Talk: Degree reduction and elevation of triangular Bézier surfaces.
http://www.crm.es/General/Memories/MemoriaAng2006.pdf

36. Seventh Faculty Scientific Day at JUST, May 18-19, 2004. Talk: Jacobi-weighted orthogonal polynomials.

37. Sixth International Conference on Mathematical Methods for Curves and Surfaces, Tromsø, **Norway**, July 1-6, 2004. Talk: Degree reduction of triangular Bézier surfaces with continuous conditions at vertices
http://heim.ifi.uio.no/ cagd/

38. Sixth Faculty Scientific Day at JUST, May 27-28, 2003.

39. First Annual Conference on Mathematics and Computer Science, Irbid National University,

October 15-16, 2003. Talk: Applications to Chebyshev-Bernstein transformation.

40. SIAM Conference on geometric design and computing, Seattle, Washington, **USA**, November 10-13, 2003. Talk presented by B. G. Lee: Multiple degree reduction and elevation of Bézier curves using Jacobi-Bernstein basis transformation.
http://meetings.siam.org/sess/

41. Fifth International Conference on Curves and Surfaces, Saint Malo, **France**, June 27-July 3, 2002. Talk: Jacobi-Bernstein basis transformation.
https://books.google.jo/books/about/CurveandSurfaceDesignSaintMalo2002.html

42. Fifth Faculty Scientific Day at JUST, May 12-16, 2002, Talk: On high order piecewise approximation methods.

43. Chemnitz Finite Element Symposium, Chemnitz, **Germany**, September 23-25, 2002. Talk: High accuracy piecewise approximation for curves.
http://www.tu-chemnitz.de/sfb393/fem-symposium/2002/registration/participants.php3

44. Workshop on Fourier Analysis and Convexity, Milano, **Italy**, June 11-22, 2001. Talk: Transformation of Chebyshev-Bernstein polynomial basis

45. Fourth Faculty Scientific Day at JUST, May 23-24, 2001. Talk: On Hermite-Fejér interpolation

46. Dirac Operators: Yesterday and Today, American University of Beirut, **Lebanon**, August 27-September 7, 2001.

47. Third Jordanian Mathematics Conference, September 2-5, 1996. Talk: Approximation with quartic Bernstein polynomials.

48. 17.te Konferenz über Differentialgeometrie, Darmstadt, **West Germany**, June 3, 1994. Talk: Verbesserung der Taylorschen Approximationsordnung

49. Second Jordanian Mathematics Conference, September 11-14, 1994. Talk: Geometric Hermite approximation.

50. Conference about Differential Geometry, Stuttgart, **West Germany**, June 11, 1993. Talk: Piecewise approximation with high order.

51. The Second Gauss Symposium, München, **West Germany**, August 1-7, 1993. Talk: Local approximation of high geometric order.

52. DFG/GAMM-Conference about Boundary Interpolation, Stuttgart, **West Germany**, November 19-20, 1993, Talk: Conjecture about spline interpolation.

PUBLICATIONS IN PEER REVIEWED INTERNATIONAL CONFERENCES:
The following articles have been published in peer reviewed international conferences:

1. <u>A. Rababah</u>, Preface for "The Third Symposium on Approximation of Curves and Surfaces (ACS 2016)", ICNAAM (2016), AIP Conference Proceedings 1863, 060001 (2017) (ISI, SCOPUS); http://doi.org/10.1063/1.4992215

2. <u>A. Rababah</u> and Zainab AlMeraj, The best uniform approximation of ellipse with degree two, AIP Conference Proceedings 1863, 060003 (2017) (ISI, SCOPUS); http://doi.org/10.1063/1.4992217

3. <u>A. Rababah</u> The best uniform quintic approximation of circular arcs with high accuracy, AIP

Conference Proceedings 1863, 060005 (2017) (ISI, SCOPUS); http://doi.org/10.1063/1.4992219

4. <u>A. Rababah</u>, Mohammed Bani Khalid, and Mohammed Shakhaterh, Quadratic spline interpolation with minimized error, AIP Conference Proceedings 1863, 060007 (2017) (ISI, SCOPUS); http://doi.org/10.1063/1.4992221

5. <u>A. Rababah</u>, Preface for "The Second Symposium on Approximation of Curves and Surfaces (ACS 2015)", ICNAAM (2015), AIP Conference Proceedings 1738, 050001 (2016) (ISI, SCOPUS); http://doi.org/10.1063/1.4951816

6. <u>A. Rababah</u> and Ayman Al-Shbool, The transformation matrix of Chebyshev III Bernstein polynomial basis, ICNAAM (2015), published by AIP. 1738, 050007; http://doi.org/10.1063/1.495182

7. <u>A. Rababah</u> and Yusuf Fatihu, G^2-degree reduction of disk Bézier curves, ICNAAM (2015), published by AIP, 1738, 050003; http://doi.org/10.1063/1.4951818

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1. <u>A. Rababah</u> and Yusuf Hamza, Multi-degree Reduction of Said-Ball Curves with Endpoints Constraints.

2. <u>A. Rababah</u> and M. Bani Khaled, Best Quadratic Spline Interpolation Based on Minimizing the Error.

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