

PERSONAL DETAILS

Name Amr Zakaria
Nationality Egyptian
Birthday 19/03/1985
Address Institute of Mathematics
Department of Analysis
University of Debrecen
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ACADEMIC QUALIFICATIONS

PhD in Mathematics Sep. 2016–June 2020
University of Debrecen, Debrecen, Hungary
Supervisor: Prof. Zsolt Páles
Thesis Title: Comparison and characterization problems of general classes of means

PhD in Mathematics Sep. 2011–Nov. 2015
University of Ain Shams, Cairo, Egypt
Supervisors: Prof. Ali Kandil, Prof. Osama El-Tantawy and Prof. Sobhy El-Sheikh
Thesis Title: Proximity relations and some related structures

MSc in Mathematics Oct. 2009–Jul. 2011
University of Ain Shams, Cairo, Egypt
Supervisors: Prof. Ali Kandil, Dr. Mohamed Yakout
Thesis Title: Rought sets and its different applications

Special Diploma in Mathematics (Excellent) Sep. 2007–Sep. 2008
University of Ain Shams, Cairo, Egypt

General Diploma in Mathematics (Excellent) Sep. 2006–Jul. 2007
University of Ain Shams, Cairo, Egypt

B.Sc Mathematics Excellent First Class Honors Sep. 2002–Sep. 2006
University of Ain Shams, Cairo, Egypt

ACADEMIC POSITIONS

Doctoral studies University of Debrecen, Debrecen, Hungary
September 2016–February 2019

Lecturer University of Ain Shams, Cairo, Egypt
Jan. 2016–Sep. 2016

Teaching Assistant University of Ain Shams, Cairo, Egypt
Mar. 2007–Jan. 2016

AWARDS AND GRANTS

SUPPORTED BY

Pre-Doctoral Scholarship

University of Debrecen, Hungary

Supervisor: Prof. Zsolt Páles

01 February 2019–30 January 2020

University of Debrecen, Hungary

Post-Graduate Scholarship

University of Debrecen, Hungary

Supervisor: Prof. Zsolt Páles

01 September 2018–30 January 2019

Tempus Public Foundation, Hungary

Post-Graduate Scholarship

University of Debrecen, Hungary

Supervisor: Prof. Zsolt Páles

01 April 2018–30 May 2018

Tempus Public Foundation, Hungary

Post-Graduate Scholarship

University of Debrecen, Hungary

Supervisor: Prof. Zsolt Páles

01 October 2016–30 March 2017

Tempus Public Foundation, Hungary

Post-Graduate Scholarship

University of Debrecen, Hungary

Supervisor: Prof. Zsolt Páles

20 February 2015–18 June 2015

University of Ain Shams, Cairo, Egypt

Post-Graduate Scholarship

University of Prince Edward Island, Canada

Supervisor: Prof. Maxime R. Burke

18 September 2012–17 December 2012

University of Ain Shams, Cairo, Egypt

ORGANIZING CONFERENCES

- Numbers, Functions, Equations 2018, Hajdúszoboszló, Hungary, August 26–September 01, 2018.

MEMBERSHIP IN PROFESSIONAL ORGANIZATION

- Working Group on Generalized Convexity;
- Egyptian Mathematical Society.

PEER REVIEWER

- Mathematical Reviews;
- Pure and Applied Mathematics Journal.

REFEREE

- International Journal of Computer Mathematics: Computer Systems Theory;
- Facta Universitatis;
- International Journal of Artificial Life Research (IJALR);
- Neural Computing and Applications Journal;
- International Journal of Fuzzy System Applications (IJFSA);
- Filomat;

- Kuwait Journal of Science;
- Annals of Fuzzy Mathematics and Informatics.

LIST OF TALKS

- [1] *Equality problems related to Cauchy means*, 18th International Conference on Functional Equations and Inequalities, Bedlewo, Poland, June 9-15, 2019.
- [2] *On the equality of Bajraktarević means to quasi-arithmetic means*, 57th International Symposium on Functional Equations, Jastarnia, Poland June 2–9, 2019.
- [3] *Equality problems related to Cauchy means*, Annual Seminar on Analysis, Síkfőkút, Hungary, May 24–26, 2019.
- [4] *On the equality of Bajraktarević means to quasi-arithmetic means*, Analysis Research Seminar, Institute of Mathematics, University of Debrecen, May 8, 2019.
- [5] *On the equality of Bajraktarević means to quasi-arithmetic means*, 2nd Debrecen Spring Workshop on Analysis, Institute of Mathematics, Debrecen, Hungary, April 4, 2019.
- [6] *On the equality problem of two variable Cauchy means*, 15th International Student Conference on Analysis, Ustroń, Poland, February 2–5, 2019.
- [7] *Equality of Bajraktarević means with Cauchy means*, 19th Katowice–Debrecen Winter Seminar on Functional Equations and Inequalities, Zakopane, Poland, January 30–February 2, 2019.
- [8] *Invariance of a symmetric Bajraktarević mean with respect to two nonsymmetric Bajraktarević means*, Numbers, Functions, Equations 2018, Hajdúszoboszló, Hungary, August 26–September 01, 2018.
- [9] *On the local and global comparison of generalized Bajraktarević means*, Annual Seminar on Analysis, Síkfőkút, Hungary, June 8–10, 2018.
- [10] *On the invariance equation for two-variable weighted nonsymmetric Bajraktarević means*, 1st Debrecen Spring Workshop on Analysis, Institute of Mathematics, Debrecen, Hungary, April 4, 2018.
- [11] *On the invariance equation for two-variable weighted nonsymmetric Bajraktarević means*, 14th International Student Conference on Analysis, Síkfőkút, Hungary, February 3–6, 2018.
- [12] *Equality and homogeneity of generalized Bajraktarević means*, 18th Debrecen–Katowice Winter Seminar on Functional Equations and Inequalities Hajdúszoboszló, Hungary, January 31–February 3, 2018.
- [13] *On the local and global comparison of generalized Bajraktarević means*, 12th International Symposium on Generalized Convexity and Monotonicity, Hajdúszoboszló, Hungary, August 27–September 02, 2017.
- [14] Annual Seminar on Analysis, Síkfőkút, Hungary, June 23–25, 2017.
- [15] *Generalized rough multiset via multiset ideals*, 28th International Conference on Topology and its Applications, Mansoura, Egypt, July 28–29, 2015.
- [16] *I-proximity spaces*, 3rd International Conference on Mathematics and Information Sciences, Luxor, Egypt, December 28-30, 2013.
- [17] *New structures of proximity spaces*, International Conference on Mathematics, Trends and Development (ICMTD12), Cairo, Egypt, December 2012.
- [18] *On I-proximity spaces*, 26th International Conference on Topology and its Applications, Tanta, Egypt 2012.
- [19] *Generalized rough sets via ideals*, 25th International Conference on Topology and its Applications, Port Said, Egypt 2011.

- [20] *On bipreordered approximation spaces*, 24th International Conference on Topology and its Applications, BeniSuef, Egypt 2010.
- [21] Regularly attending, participating and lecturing in the weekly seminar of Department of Analysis at University of Debrecen in the academic years 2016/2017, 2017/2018 and 2018/2019.

LIST OF PUBLICATIONS

- [1] A. Kandil, M. Yakout, A. Zakaria, *On bipreordered approximation spaces*, Journal of Life Science, **8** (2011), 505-509.
- [2] A. Kandil, M. Yakout, A. Zakaria, *Generalized rough sets via ideals*, Ann. Fuzzy Math. Inform. **5** (2013), 525-532.
- [3] A. Kandil, O. A. Tantawy, S. A. El-Sheikh, A. Zakaria, *I-proximity spaces*, Jökull Journal, **63** (2013), 237-245.
- [4] A. Kandil, O. A. Tantawy, S. A. El-Sheikh and A. Zakaria, *New structures of proximity spaces*, Information Sciences Letters, **3** (2014), 85-89.
- [5] A. Kandil, O. A. Tantawy, S. A. El-Sheikh and A. Zakaria, *Generalized I- proximity spaces*, Mathematical Sciences Letters, **3** (2014), 173-178.
- [6] A. Kandil, O. A. Tantawy, S. A. El-Sheikh and A. Zakaria, *Soft I-proximity spaces*, Ann. Fuzzy Math. Inform. **9** (4) (2015), 675-682.
- [7] S. A. El-Sheikh and A. Zakaria, *Note on "rough multiset and its multiset topology"*, Ann. Fuzzy Math. Inform. **10** (2) (2015), 235-238.
- [8] A. Zakaria, *Note on "on multiset topologies"*, Ann. Fuzzy Math. Inform. **10** (5) (2015), 825-827.
- [9] A. Zakaria, S. J. John and S. A. El-Sheikh, *Generalized rough multiset via multiset ideals*, Journal of Intelligent and Fuzzy Systems, **30** (3) (2016), 1791-1802.
- [10] A. Kandil, O. A. Tantawy, S. A. El-Sheikh and A. Zakaria, *On I-proximity spaces*, Applied Mathematics and Information Sciences Letters, **4** (2) (2016), 79-84.
- [11] S. A. El-Sheikh and A. Zakaria, *Erratum to "Supra M-topological space and decompositions of some types of supra msets"*, Ann. Fuzzy Math. Inform. **12** (1) (2016), 99-100.
- [12] Á. Száz and A. Zakaria, *Mild Continuity Properties of Relations and Relators in Relator Spaces*, Essays in Mathematics and Its Applications: In Honor of Vladimir Arnold, ed. by P.M.Pardalos, Th.M. Rassias, (2016), pp. 439–511.
- [13] A. Kandil, M. M. Yakout and A. Zakaria, *New Approaches of Rough Sets via Ideals.*" Handbook of Research on Generalized and Hybrid Set Structures and Applications for Soft Computing. IGI Global, 2016. 247-264. doi:10.4018/978-1-4666-9798-0. Ch012.
- [14] A. Kandil, O. A. Tantawy, S. A. El-Sheikh and A. Zakaria, *Multiset proximity spaces*, Journal of the Egyptian Mathematical Society **24** (2016), 562-567.
- [15] A. Kandil and A. Zakaria, *Note on "IP-separation axioms in ideal bitopological ordered spaces II"*, **25** (2017), 155-157.
- [16] A. Zakaria, *Measuring Soft Roughness of Soft Rough Sets Induced by Covering*, Thriving Rough Sets, Studies in Computational Intelligence, 708 (2017), 269-281.
- [17] A. Kandil, M. M. Yakout and A. Zakaria, *Generalized rough relations via ideals*, Creative Mathematics and Informatics, **26** (2017), 79-84.
- [18] A. Zakaria, *Erratum to "new approach for closure spaces by relations"*, Acta Mathematica Academiae Paedagogicae Nyíregyháziensis. **33** (2017), 115-116.

- [19] A. Kandil and A. Zakaria, *Note on "approximation space on novel granulations"*, Journal of the Egyptian Mathematical Society, **25** (2017), 231-232.
- [20] Zs. Páles and A. Zakaria, *On the local and global comparison of generalized Bajraktarević means*, Journal of Mathematical Analysis and Applications, **455** (2017), 792–815.
- [21] Zs. Páles and A. Zakaria, *On the invariance equation for two-variable weighted nonsymmetric Bajraktarević means*, Aequationes Mathematicae, **93** (2019), 37–57.
- [22] R. L. Lovas, Zs. Páles and A. Zakaria, *Characterization of the equality of Cauchy means to quasiarithmetic means*, J. Math. Anal. Appl. **484** (2020), printed online.
- [23] Zs. Páles and A. Zakaria, *Equality and homogeneity of generalized integral means*, Acta Math. Hungar. (2020), printed online.
- [24] Zs. Páles and A. Zakaria, *On the equality of Bajraktarević means to quasi-arithmetic means*, Result. Math. **75** (2020), no. 1, printed online.
- [25] A. Zakaria, S. J. John and K. P. Girirsh, *Multiset filters*, Journal of the Egyptian Mathematical Society, **27** (2020), printed online.
- [26] L. Losonczi, Zs. Páles and A. Zakaria, *On the equality of two-variable general functional means*. Submitted.