



CV / ACADEMIC STAFF

Document No	TIU-HR-FR-009E
Validity Date	07/05/2016
Revision No	00
Unit	Human Resources

Unit

Human Resources

Page No

Area of Experience: Mathematics

Personal Information

Name & Surname :Asst. Prof. Dr. Orhan Tug

Date of Birth: 01.04.1985

Nationality : Turkey

Gender: Male

Marital Status: Maried

Contact Information

Mob Number: +9647501644439

Email :orhan.tug@tiu.edu.iq;tugorhan27@gmail.com

Address/City: Future City, B1-8-34.

Residency position :

 Iraqi Citizen Other Countries Citizen

ID Card Status :

 KRG Residence Temporary ID (one month – three months) Permanent ID (minimum one year)

Professional Information

Last Academic Degree: PhD Degree Master Degree Bachelor Degree Institute

Specialization :

Academic Title Assistant Lecturer Lecturer Assistant Professor Professor

Number of Publications: International Level 28 National Level 2 in Conferences 12

Number of Citations: 288

Have you got a Certificate of Teaching Methods Course? Yes No

If Yes, Identify the;

Issuing Authority: (Salahaddin University)

Issuing Date: (25.06.2014)

Language Skills

Language	Fluent	Good	Primary	
1-English	X	<input type="checkbox"/>	<input type="checkbox"/>	
2-Turkish(Mother tongue)	X	<input type="checkbox"/>	<input type="checkbox"/>	
3-Kurdish	<input type="checkbox"/>	<input type="checkbox"/>	X	

For English Language , have you been certified by:

TOEFL Yes No

If Yes, Identify the;

Score : ()

Issuing Date: ()

IELTS X Yes No

If Yes, Identify the ;

Score : (5.5)

Issuing Date: (April 2024)

PEARSON Yes No

If Yes, Identify the ;

Score : ()

Issuing Date: ()



CV / ACADEMIC STAFF

Document No	TIU-HR-FR-009E
Validity Date	07/05/2016
Revision No	00

Unit

Human Resources

Page No

PERSONAL DATA



Name: Orhan Tug
Mobile: +9647501644439
E-Mail: orhan.tug@tiu.edu.iq

EDUCATION AND QUALIFICATIONS

YEAR	DEGREE
2019	PHD : Department of Mathematics, Faculty of Sciences and Mathematics, University of Nis, Nis-Serbia. PHD THESIS: B(r,s,t,u)-Summable Double Sequence Spaces and Matrix Transformations.
2011	MASTER DEGREE: Functional Analysis Major, Department of Mathematics, Institute of Natural Sciences, Sakarya University, Sakarya-Turkey. MASTER THESIS: Some I and I* Convergent Double Sequence Spaces.
2008	BACHELOR'S DEGREE: Department of Mathematics, Faculty of Arts and Sciences, Atatürk University, Erzurum-Turkey.
2004	BACCALAUREATE (HIGH SCHOOL) : Ünye high school, Ordu-Turkey

WORK EXPERIENCE

Year	Place	Title
2020-	Tishk International University	Lecturer/Head of Department
2011-2020	Tishk International University	Assistant Lecturer/Head of Department

	CV / ACADEMIC STAFF	Document No	TIU-HR-FR-009E
		Validity Date	07/05/2016
		Revision No	00
Unit	Human Resources	Page No	

2010-2011	High School- Istanbul	Math Teacher
-----------	--------------------------	--------------

Note: list them from the most resent to older .

LANGUAGE SKILLS

- 1- Turkish (Mother Tongue)
- 2- English (Fluent speaking, excellent reading and writing)
- 3- Kurdish (Starter)

RESEARCH INTERESTS :

My research interest lies in functional analysis and basically falls into but not limited to

- 1- Summability theory
- 2- Matrix methods
- 3- Double and single sequence spaces
- 4- Schauder bases
- 5- Matrix transformations
- 6- The alpha-, beta- and gamma-duals
- 7- Operator theory
- 8- Spectral theory on Banach spaces
- 9- Measure theory
- 10- Ideal and statistical convergence of sequence spaces

COURSES TAUGHT

- Introduction to Mathematics I-II
- Pre-Calculus I-II
- Advanced Calculus I-II
- Linear Algebra I-II
- Mathematical Analysis I-II
- Foundation of Mathematics
- Discrete Mathematics
- General Mathematics
- Fundamentals of Functional Analysis
- Research Methods in Mathematics
- Technical English in Mathematics
- Introduction to Topology
- Research Projects in Mathematics

	CV / ACADEMIC STAFF	Document No	TIU-HR-FR-009E
		Validity Date	07/05/2016
		Revision No	00
Unit	Human Resources	Page No	

ACADEMIC ACTIVITIES (workshops, seminars , participations, others..)

A-Conference Participations with a paper

- 1- ***On the domain of Nörlind Mean in the space of almost null and almost convergent sequence space***, KMD 2014 Karatekin Mathematics days 2014 International Mathematics Symposium (11-13 June, 2014)
- 2- ***Generalized Weighted Nörlund Mean and Ideal Convergence***, ICRAPAM 2014 1st International conference on Recent in Pure and Applied mathematics (6-9 November 2014)
- 3- ***On the space of Nörlund Almost null and Nörlund Almost Convergent Sequences***, ICRAPAM 2015 2nd International conference on Recent in Pure and Applied mathematics (3-6 June 2015)
- 4- ***Four-dimensional generalized difference matrix and some double sequence spaces***, AMS 2015 International conference on Advancements in mathematical sciences (5-7 Nowember, 2015)
- 5- ***On some Generalized Nörlund Ideal Convergent Sequence Spaces, International Conference on Energy, Environment and Applied Science (ICEEAS-2016) 10-11 April 2016, Ishik University, Erbil, IRAQ. And Co-Chair of the conference***
- 6- ***Four-dimensional generalized difference matrix and some double sequence spaces***, ICAAM 2016 Third International Conference on Analysis and Applied Mathematics, September 7-10, 2016 in Almaty, Kazakhstan
- 7- ***B-summable almost convergent double sequences, International Conference on Applied science, Energy and Environment, ICASEE-2017, May 20-21, 2017Erbil IRAQ***
- 8- ***On The Sequence Space $bv(N^t)$ And Some Applications, International Conference on Applied science, Energy and Environment, ICASEE-2017, May 20-21, 2017Erbil IRAQ***
- 9- ***On the Characterization of Some Classes of Four-Dimensional Matrices and Almost B-summable Double Sequences, National Conference on Pure and Applied Mathematics and Mathematics Education, NCPAME-2018, February 11-12, 2018, Erbil-IRAQ.***
- 10- ***On the domain of four-dimensional sequential band matrix in some double sequence spaces, CPMMI-2020, Serbia.***
- 11- ***Domain of Generalized Difference Operator Δ_i^3 of Order Three in The Sequence Spaces l_1 and bv , ICOWOBAS-22, 28 August 2021, Malaysia.***
- 12- ***On the New Hahn Sequence Space h_d^p , International Conference on Applied science, Energy and Environment, ICASEE-22, 26-27 March 2022 Erbil-IRAQ***
- 13- ***On the second order Hahn Sequence Space h^2 , ICOWOBAS-23, 8-12 May 2023, Tishk International University, Erbil IRAQ.***
- 14- ***On the Hahn sequence space $h(\lambda)$ with speed, ICOWOBAS-23, 8-12 May 2023, Tishk International University, Erbil IRAQ.***



CV / ACADEMIC STAFF

Document No	TIU-HR-FR-009E		
Validity Date	07/05/2016		
Revision No	00		
Unit	Human Resources	Page No	

15- Common Reasons for Manuscript Rejections, National Symposium: 7th Excellent Paper Symposium, Erbil-IRAQ.

16- Properties of Certain Sequence Spaces and Corresponding Matrix Classes, ICASEE-25, January 27-29 2025, Tishk International University, Erbil IRAQ.

17- On the Hahn sequence space $h(\lambda)$ with speed, ICOWOBAS-25, 7-9 May 2025, UTM, Malaysia.

B-Organizational Academic Activities

- **Co-Chair** of ICEEAS-2016(3rd International Conference on Energy, Environment and Applied science), Erbil-IRAQ
- **Secretary** of ICASEE-2017(4th International Conference on Applied science, Energy and Environment,), Erbil-IRAQ
- **Chair** of NPC-2017(National Pop Conference), Erbil-IRAQ
- **International Organization Committee member** of TWMS-2017 Astana-KAZAKHISTAN
- **Chair** of NCPAME-2018(National Conference on Pure and Applied Mathematics and Mathematics Education), Erbil-IRAQ
- **Secretary** of NPC-2018(2nd National Pop Conference), Erbil-IRAQ
- **Secretary** of ICASEE-2018(5th International Conference on Applied science, Energy and Environment), Erbil-IRAQ.
- **Secretary** of ICCRAMS 2019(1st International Conference on Clinical Research and Medical Sciences), Eebil IRAQ.
- **Chair** of ICASEE-2022(6th International Conference on Applied science, Energy and Environment), Erbil-IRAQ.
- **International Organization Committee member** of International Conference on Nonlinear Analysis and Applications-2022, November 22-23, 2022, (ICNAA 2022), Department of Mathematics, School of Fundamental and Applied Sciences, Assam Don Bosco University, Tapesia Garden, Sonapur-782402, Assam, India.
- **Co-Chair** of ICOWOBAS-2023(9th International Conference and Workshop of Basic and Applied Sciences), Erbil-IRAQ.
- **Co-Chair** of ICASEE-2025(7th International Conference on Applied science, Energy and Environment), Erbil-IRAQ.
- **Co-Chair** of ICOWOBAS-2025(10th International Conference and Workshop of Basic and Applied Sciences), UTM, Malaysia.
- **Chair** of NAYREC-2025(12th National Young Researcher Conference), TIU, Erbil-IRAQ.

	CV / ACADEMIC STAFF	Document No	TIU-HR-FR-009E
		Validity Date	07/05/2016
		Revision No	00
Unit	Human Resources	Page No	

PUBLICATIONS

SELECTED ARTICLES:

(The Publications appears in SCI, SCI Exp.,SSCI and AHCI are shown with *)

- 1- Tuğ, O. "On the New Hahn Sequence Space h (2)." *Abstract and Applied Analysis*. Vol. 2025. No. 1. Wiley, 2025. <https://doi.org/10.1155/aaa/6726703>.
- 2- Tuğ, O., Malkowsky, E., Rakočević, V. and Hazarika, B., 2025. On the Four-Dimensional Forward Difference Matrix, Summability, Fixed Point Theory and Generalized integrals with Applications, Chapman and Hall/CRC. <https://www.routledge.com/Summability-Fixed-Point-Theory-and-Generalized-Integrals-with-Applications/Kalita-Nazir-Tikare-Tikare/p/book/9781032980027>
- 3- Tuğ, O., Malkowsky, E., Rakočević, V. and Yaying, T., 2025. On the Double Sequence Space H ϑ as an Extension of Hahn Space h . *International Journal of Mathematics and Mathematical Sciences*, 2025(1), p.2089578.<https://doi.org/10.1155/ijmm/2089578>
- 4- Orhan Tug, "On The Spectrum of Norlund Type Matrix Operator $A=(a_{nk})$ on The Sequence Spaces l_1 and bv ", Eurasian Journal of Science & Engineering., <https://doi.org/10.23918/eajse.v9i2p15>
- 5- Ohan Tug, "Domain of generalized difference operator Δ_i^3 of order three in the sequence spaces l_1 and bv ", AIP Conference Proceedings, 2023
- 6- Orhan Tuğ, Eberhard Malkowsky, Bipan Hazarika, Taja Yaying, "On the New Generalized Hahn Sequence Space h_d^p ", Abstract and Applied Analysis, vol. 2022, Article ID 6832559, 11 pages, 2022. <https://doi.org/10.1155/2022/6832559>
- 7- Tuğ, O., Kawa, M. "On The Spectrum of the Matrix Operator $A = (a_{nk})$ on Hahn Sequence Space h " Eurasian Journal of Science & Engineering. <https://doi.org/10.23918/eajse.v8i3p94>.
- 8- Yaying, T., Kirisci, M., Hazarika, B. and Tug, O., "Domain of q -Cesàro matrix in Hahn sequence space h_d and the space bv of the sequences of bounded variation" FILOMAT, <https://doi.org/10.2298/FIL2219427Y>.
- 9- Tuğ, O., "Domain of Generalized Difference Operator D^3_i of Order Three in The Sequence Spaces l_1 and bv " AIP, <https://doi.org/10.1063/5.0103773>
- 10- *Tuğ, O., Rakočević, V., & Malkowsky, E. "On the spaces \mathcal{BV} ϑ of double sequences of bounded variation." Asian-European Journal of Mathematics (2022): 2250204. <https://doi.org/10.1142/S1793557122502047>
- 11- *Tuğ, O., "The Generalized Difference Operator of Order Three and Its Domain in the Sequence Spaces and ", Journal of Mathematics, vol. 2022, Article ID 6343084, 13 pages, 2022. <https://doi.org/10.1155/2022/6343084>
- 12- *Tuğ, O., Rakočević, V., & Malkowsky, E. (2021). Domain of generalized difference operator Δ_i^3 of order three on the hahn sequence space h and matrix transformations. Linear and Multilinear Algebra, 1-19. <https://doi.org/10.1080/03081087.2021.1991875>
- 13- Tuğ, O., (2021) Almost and Strongly Almost $B(er, se, et, ue)$ -Summable Double Sequences. Eurasian Journal of Science & Engineering, 7 (2). pp. 71-89. ISSN 2414-5602. <https://doi.org/10.23918/eajse.v7i2p71>

	CV / ACADEMIC STAFF	Document No	TIU-HR-FR-009E
		Validity Date	07/05/2016
		Revision No	00
Unit	Human Resources	Page No	

14- *Malkowsky, E., Milovanović, G.V., Rakočević, V., Tuğ, O. The roots of polynomials and the operator Δ_i^3 on the Hahn sequence space h. Comp. Appl. Math. 40, 222 (2021). <https://doi.org/10.1007/s40314-021-01611-6>

15- *Malkowsky, E., Rakočević, V. & Tuğ, O. (2021) Compact operators on the Hahn space. Monatsh Math (2021). <https://doi.org/10.1007/s00605-021-01588-8>

16- Tuğ, O. "The spaces of $B(r,s,t,u)$ strongly almost convergent double sequences and matrix transformations", Bulletin des Sciences Mathématiques, Volume 169, July 2021, 102989. <https://doi.org/10.1016/j.bulsci.2021.102989>

17- *Tuğ, O.; Rakočević, V.; Malkowsky, E. "On the Domain of the Four-Dimensional Sequential Band Matrix in Some Double Sequence Spaces". Mathematics 2020, 8, 789. <https://doi.org/10.3390/math8050789>

18- *Tuğ, O., "On The Characterization of Some Classes of Four Dimensional Matrices and Almost B-Summable Double Sequences", Journal of Mathematics, HINDAWI, 2018. <https://doi.org/10.1155/2018/1826485>

19- *Tuğ, O., "On almost B-summable double sequence spaces", Journal of Inequalities and Applications, vol. 2018, pp. , 2018. <https://doi.org/10.1186/s13660-017-1606-6>

20- *Tuğ, O., "Four-Dimensional Generalized Difference Matrix and Almost Convergent Double Sequence Spaces", Springer Proceedings in Mathematics and Statistics, vol. 216, pp. 83–87, 2017. https://doi.org/10.1007/978-3-319-67053-9_7

21- *Tuğ, O., "Four-dimensional generalized difference matrix and some double sequence spaces." Journal of Inequalities and Applications 2017.1 (2017): 149. <https://doi.org/10.1186/s13660-017-1423-y>

22- *Tuğ, O., and Başar. F., "Four-dimensional generalized difference matrix and some double sequence spaces." international conference on analysis and applied mathematics (ICAAM 2016). Vol. 1759. No. 1. AIP Publishing, 2016. <https://doi.org/10.1063/1.4959689>

23- *Tuğ, O., and Başar. F., "On the Spaces of Nörlund Almost Null and Nörlund Almost Convergent Sequences." Filomat 30.3 (2016). <https://doi.org/10.2298/FIL1603773T>

24- *Tuğ, O., and Başar. F., "On The Spaces Of Norlund Null And Norlund Convergent Sequences." TWMS J. Pure Appl. Math., V.7, N.1, 2016, pp.76-87

25- Tuğ, O., "Some Almost Lacunary Double Sequence Spaces Defined by Orlicz Functions in 2-Normed Spaces", ISRN Mathematical Analysis, Vol. 2012, No. ID 378575, Jan. 2013, pp. 11. <https://doi.org/10.5402/2012/378575>

26- Tuğ, O., Dogan, M., and Kurudirek, A., "Some New Double sequence Spaces in 2-Normed Spaces Defined by Ideal Convergence and an Orlicz Function", ISRN Mathematical Analysis, Vol. 2012, No. ID 524962, Jan. 2013, pp. 11. <https://doi.org/10.5402/2012/524962>

27- Tuğ, O., On some Generalized Nörlund Ideal Convergent Sequence Spaces", Zanco Journal of Pure and Applied Science, 2016.

28- Tuğ, O., and Mutlay, D., "Review on Some Sequence Spaces of p-adic Numbers", Eurasian Journal of Science & Engineering, Volume 3, Issue 1 (Special Issue); September, 2017, 231-237.

29- Tuğ, O., "On the $B(r,s,t,u)$ -Matrix Domain in the Sequence Space L_u ", Eurasian Journal of Science & Engineering, 3 (1), 204-211

	CV / ACADEMIC STAFF	Document No	TIU-HR-FR-009E
		Validity Date	07/05/2016
		Revision No	00
Unit	Human Resources	Page No	

30- Tuğ, O., “On the Domain of Nörlund Matrix in the Space of Bounded Variation Sequences”, Eurasian Journal of Science & Engineering, 3 (2), 111-120.
<https://doi.org/10.23918/eajse.v3i2p111>

31- Tuğ, O., “Nörlund Matrix Domain on Sequence Spaces of p -adic Numbers”, Eurasian Journal of Science & Engineering, Volume 3, Issue 3; June, 2018, 33-41.