

PERSONAL INFORMATION



Aybeyan SELİM

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🔗 <https://publons.com/dashboard/summary/>

🔗 <https://www.scopus.com/authid/detail.uri?authorId=57201667796>

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Sex Male | Date of birth 16. 07. 1980 | Nationality North Macedonia

WORK EXPERIENCE

September 2024 - Present **Dean**
International Vision University, Faculty of Engineering and Architecture, North Macedonia

April 2024 - Present **Associate Professor**
International Vision University, Faculty of Engineering and Architecture, North Macedonia

August 2021 – August 2024 **Dean**
International Vision University, Faculty of Engineering and Architecture, North Macedonia

July 2021 - April 2024 **Assistant Professor**
International Vision University, Faculty of Engineering and Architecture, North Macedonia

September 2019 – July 2021 **Dean**
International Vision University, Faculty of Informatics, North Macedonia

September 2019 – July 2021 **Assistant Professor**
International Vision University, Faculty of Informatics, North Macedonia

September 2015 - September 2019 **Lecturer**
International Vision University, Faculty of Informatics, North Macedonia

September 2004 - September 2015 **Math Teacher**
Municipality Hight School “Gostivar” – Gostivar, North Macedonia

EDUCATION AND TRAINING

December 2015 - February 2019 **PhD in Computer Science**
University of Novi Pazar, Novi Pazar, Serbia
PhD Thesis: Algorithms of computational geometry and their application in linear optimization and dynamic programming
Supervisor: Prof Dr Muzafer Saracevic

September 2012 - November 2015 **Master of Mathematics and Applications**
Faculty of Natural Sciences and Mathematics, Skopje, North Macedonia
Master Thesis: Quadratic programming and its application to analysis of the mean – variance model in portfolio optimization
Supervisor: Prof Dr Irena Stojkovska

September 1999 – July 2004 **Bachelor in Mathematics**
Faculty of Natural Sciences and Mathematics, Skopje, North Macedonia
Graduation Thesis: Binomial and Multinomial Coefficients
Supervisor: Prof Dr Donco Dimovski

PERSONAL SKILLS

Mother tongue(s) Turkish

Other language(s)

	UNDERSTANDING		SPEAKING		WRITING
	Listening	Reading	Spoken interaction	Spoken production	
English	C1	C1	C1	C1	C1
Macedonian	C2	C2	C2	C2	C2
Albanian	C2	C2	C2	C2	C2
Serbian	C2	C2	C2	C2	C2
Bulgarian	C1	C1	C1	C1	C1
French	A2	A2	A2	A2	A2

Communication skills ▪ Good communication skills gained through my experience as Director and Dean.

Organisational / managerial skills ▪ Leadership (currently responsible for a team of 20 people).

Job-related skills ▪ Good command of quality control processes.

Computer skills ▪ Proficient with Microsoft Word, Excel and PowerPoint
 ▪ Proficient in JavaScript, C# and Python coding,
 ▪ Thorough understanding of social media and social media analytics
 ▪ Communication and collaboration tools (Microsoft Teams, Skype, etc.)
 ▪ Data Visualization
 ▪ Digital Forensics

Other skills ▪ Problem solving
 ▪ Analytical thinking

Driving licence ▪ B

ADDITIONAL INFORMATION

- Books and lecture notes
- Selim A., Teoriden Pratiğe Veri Madenciliği , Uluslararası Vizyon Üniversitesi, 2024
 - Selim A., Saracevic M., Mimarlık Matematiği , Uluslararası Vizyon Üniversitesi, 2021
 - Selim A., Ali A., Matematik Soru Bankasi – 3. Sınıf liseler için, 2006

- Book chapters
- Saracevic, M. H., Selimi, A., & Pepić, S. (2022). Implementation of Encryption and Data Hiding in E-Health Application. In I. Management Association (Ed.), *Research Anthology on Securing Medical Systems and Records* (pp. 644-661). IGI Global. <https://doi.org/10.4018/978-1-6684-6311-6.ch029>
 - Saračević M., Elhoseny M., Selimi A., Lončera vič Z. (2021) Possibilities of Applying the Triangulation Method in the Biometric Identification Process. In: Bilan S., Elhoseny M., Hemanth D.J. (eds) *Biometric Identification Technologies Based on Modern Data Mining Methods*. Springer, Cham. https://doi.org/10.1007/978-3-030-48378-4_1
 - Saračević M. , Selimi A. (2020), Data Encryption for IoT Applications based on Two-Parameter Fuss-Catalan Numbers, *Internet of Everything: Security and Privacy Paradigm* (in Book: *Security and Trust Issues in Internet of Things: Blockchain to the rescue*), CRC Press, TAYLOR and FRANCIS, USA. ISBN: 9780367490652.

- Saračević M., Selimi A., Pepic S. (2019), Implementation of Encryption and Data Hiding in E-Health Application, Intelligent Data Processing and Information Security Systems, ISBN: 978-1-799-81290-6, IGI Global Book, USA.
- Muzafer Saračević, Aybeyan Selimi, Šemsudin Plojović: *Some Specific Examples of Attacks on Information Systems and Smart Cities Applications*. Cybersecurity and Secure Information Systems, 06/2019: pages 205-226; , ISBN: 978-3-030-16836-0, DOI:10.1007/978-3-030-16837-7_10
- Aybeyan Selimi, Muzafer H. Saračević, Agim Rushiti: *İnteraktif Matematik Eğitiminde Multimedya Cihazların Önemi – Makedonya Örneği*. Balkan Eğitim Araştırmaları 2018/ Balkan Educational Studies 2018, 10/2018: pages 31-41; Trakya University Publication No: 195., ISBN: ISBN: 978-975-374-201-6

 Publications in WOS scientific journals (SCI / SCIE /)

- Pepić, S., Saračević, M., Selim, A., Karabašević, D., Mojsilović, M., Hasić, A., & Brzaković, P. (2024). Novel steganographic method based on Hermitian positive definite matrix and weighted Moore–Penrose inverses. *Applied Sciences*, 14*(22), 10174. <https://doi.org/10.3390/app142210174>
- Selim, A., Ali, I., Saracevic, M. & Ristevski, B. (2024). Application of the digital twin model in higher education. *Multimed Tools Appl* <https://doi.org/10.1007/s11042-024-20014-3>
- Aybeyan Selim, Ilker Ali & Blagoj Ristevski.(2024). University Information System's Impact on Academic Performance: A Comprehensive Logistic Regression Analysis with Principal Component Analysis and Performance Metrics.TEM Journal, 13(2), 1589-1598.
- Saracevic M. , Adamovic S., Macek N., Selimi A., Pepic S.(2021), *Source and Channel Models for Secret-key Agreement ´ Based on Catalan Numbers and the Lattice Path Combinatorial Approach*, Journal of Information Science and Engineering, 37, 469-482, DOI: 10.6688/JISE.202103_37(2).0012, (SCI: IF = 0.541).
- Selimovic F., Stanimirovic P., Saračević M. , Selimi A., Krtolica P. (2020) *Authentication based on the image encryption using Delaunay triangulation and Catalan objects*, Acta Polytechnica Hungarica: Journal of Applied Sciences, Vol.17 , No 2. , 207-224. publisher: Obuda University, Hungarian Academy of Engineering and IEEE Hungary Section, (Science Citation Index: IF = 1.219).
- Saracevic, Muzafer and Selimi, Aybeyan (2019) "Convex polygon triangulation based on planted trivalent binary tree\ and ballot problem," *Turkish Journal of Electrical Engineering and Computer Sciences*: Vol. 27: No. 1, Article 26. <https://doi.org/10.3906/elk-1805-143> publisher: TUBITAK, Ankara - Turkey (Thomson Reuters Science Citation Index: IF = 0.687)
- Aybeyan Selimi, Samedin Krrabaj, Muzafer Saracevic, Selver Pepic: *Memoization method for storing of minimum-weight triangulation of a convex polygon*. Computer Science - AGH, Vol.20, ISSN: 1508-2806; e-ISSN: 2300-7036, AGH University of Science and Technology, Poland, Indexed in SCOPUS (Elsevier) and ESCI-Emerging Sources Citation Index. DOI:10.7494/csci.2019.20.2.3193
- Muzafer Saracevic, Aybeyan Selimi, Faruk Selimovic: *Generation of cryptographic keys with algorithm of polygon triangulation and Catalan numbers*. Computer Science - AGH, Vol.19, ISSN: 1508-2806; e-ISSN: 2300-7036, AGH University of Science and Technology, Poland, Indexed in SCOPUS (Elsevier) and ESCI-Emerging Sources Citation Index.

 Publications in other international scientific journals (ESCI, Scopus, EBSCO, etc)

- Selim, A., & Ali, I. (2025). The Role of Artificial Intelligence in Personalized Learning Environments. *International Scientific Journal Vision*, 10(1), 9-22.
- Selim, A., & Ali, İ. (2024). The Role of Digital Forensic Analysis in Modern Investigations. *Journal of Emerging Computer Technologies*, 4(1), 1-5. <https://doi.org/10.57020/ject.1445625>
- Selim A. (2021). A Systematic Review of Big Data, Digital Transformation Areas and Industry 4.0 Trends in 2021, *International Scientific Journal Vision*, 6(2), 27-41

- Aybeyan Selimi , Muzafer Saracevic , Arafat Useini ., *Impact of Using Digital Tools in High School Mathematics: A Case Study in North Macedonia*, Universal Journal of Educational Research, Vol. 8, No. 8, pp. 3615 - 3624, 2020. DOI: 10.13189/ujer.2020.080838.
- Rahmanovic A., Saracevic M., Selimi A. (2018), Design and Implementation of Electronic Payment System In The Specific Case Study, Knowledge – International Journal, Vol.24, ISSN: 1857-923X.
- Aybeyan Selimi, Muzafer Saracevic. (2018) Computational Geometry Applications. Southeast European Journal of Soft Computing, ISSN: 2223 -1859, Vol.7, No.2.
- Muzafer Saračević, Aybeyan Selimi, Mersad Mujević: Implementation Example of the Expert system for Decision Support on Android platform based on a specific Dataset. Periodicals of Engineering and Natural Sciences, ISSN: 2303-4521, Vol.6, No.1, Indexed in SCOPUS (Elsevier).
- Aybeyan Selimi: Achievement of MPEG-7 and MPEG-21 as standarts for access, distribution and management with information , International Scientific Journal Vision, Volume 3 (1), 2018, pp. 75-92.
- Aybeyan Selimi, Mimica Milošević, Muzafer Saračević: AHP – TOPSIS Model as a Mathematical Support in the Selection of Project from Aspect of Mobility – Case Study. Journal of Applied Mathematics and Computation, Vol. 2 No. 6, pp. 257- 265, ISSN Print: 2576-0645 , USA.
- Muzafer Saračević, Aybeyan Selimi: Application of the Computational Geometry in Linear Optimization, International Scientific Journal Vision, Volume 2, Issue 2, 2017, pp. 73 – 88.
- Aybeyan Selimi, Muzafer H. Saračević: Makedonya Cumhuriyetinde Devlet Matura Sinavinda Matematik Sinavlarin Değerlendirilmesi. Hikmet Uluslararası Hakemli İlmî Araştırma Dergisi No: 30, 2017, pp. 88 -101.
- Aybeyan Selimi, Muzafer H. Saračević: The Importance of Riskless Cash with the Deterministic Return in Risk Assessment of Computer Lab, Hikmet Uluslararası Hakemli İlmî Araştırma Dergisi No: 29, 2017, pp. 144 – 158.
- Mimica Milošević, Aybeyan Selimi, Dušan Milošević: Information For Sustainable Development In Republic of Macedonia. Safety Engineering, Vol. 6 (2), 2016, pp. 65 - 71, DOI:10.7562/SE2016.6.02.03
- Milošević M, Selimi A. Development of computer maintenance and troubleshooting skills training, International Scientific Journal Vision, Volume1, Issue 1, 2016, pp. 74 93.
- Aybeyan Selimi, Skender Fehmi., Bir periyotta sadece varlıkların risk edildiği ortalama – varyans modeli, Hikmet Uluslararası Hakemli İlmî Araştırma Dergisi No:26, 2015, pp. 136 -147.

 International Scientific
 Congresses / Conferences

- Selim, A., Milošević, M., & Miločević, D. (2025). Smart City Challenges: Prioritization Methods. In *ALFATECH – Smart Cities and modern technologies – 2025* (pp. 201-207).
- Ilker Ali, Aybeyan Selim, Blagoj Ristevski & Sonja Mančevska, Exploring the Impact of Pair Programming on Student Achievement: A Comparative Analysis, XIII International Conference on Applied Internet and Information Technologies - AIIT 2023, Faculty of ICT, Bitola, N. Macedonia, 13 October 2023
- Aybeyan Selim & Ilker Ali, Implementing Innovative and Interactive Approaches in Education: A Case Study of North Macedonia, 21. International Turkish World Social Sciences Congress, Gazi University, Ankara, Turkiye, 11 October 2023
- Aybeyan Selim, Mimica Milošević & Dušan Milošević, Intuitionistic Fuzzy AHP In Decision Making For Evaluation of the Factors in Successful Internet of Things, The Second International Congress Sustainable Environment and Technologies "Creating sustainable Community", 23-25 September, 2022 , Belgrade - Serbia
- Aybeyan Selim, Ilker Ali., The Impact of Digital Literacy Skills on the Higher Education in North Macedonia. 6. International Congress of Economics and Business "Digitalization", Gostivar, North Macedonia; 10-12 June. 2022
- Aybeyan Selim., *Encryption Technique With Catalan Numbers*, ICONST- Conference on Engineering Science and Technology conference / 8-10 September 2021 Budva / Montenegro
- Fehmi Skender, Aybeyan Selim & Ilker Ali., *General Usage and Features of Data Visualization Software*, ICONST- Conference on Engineering Science and Technology conference / 8-10 September 2021 Budva / Montenegro

- Aybeyan Selim, İlker Ali: *The Effect of Pair Programming Technique on Computer Course Exams – Case Study in North Macedonia*, UBAK - 9th International Scientific Research Congress - *Science and Engineering I* 12 – 13 December 2020 Ankara, Turkey
- Aybeyan Selim, İlker Ali: *The Impact of AIS of International Vision University in the Realization of Online Exams in COVID-19 Pandemic* ICONST- Conference on Engineering Science and Technology conference / 2-5 September 2020 Budva / Montenegro
- Aybeyan Selimi, Arafat Üseini: *Yenilikçi Eğitim ile Dijital Yetkinlik ve Girişimcilik Becerilerinin Geliştirilmesi -Kuzey Makedonya Örneği*. 5. International Congress of Economics and Business "New trends in Economics and Business Opportunities", Bursa, Turkey; 07/2019
- Aybeyan Selimi, *Interactive Teaching Tools in High School Mathematics - A case Study in North Macedonia*, International Scientific Research Congress (IBAD-2019), April 25-26, 2019 – Uppsala, Sweden
- Saracevic Muzaffer, Selimi Aybeyan: (2018), *Security in the WEB environment and concrete examples of attacks on the Internet*, ICEB' 18 - 4. International congress on economics and business, ISBN: 978-975-8628-67-4, Budapest/Hungary.
- Selimi Aybeyan., Milosevic Mimica., Saracevic Muzaffer. (2017), *AHP – TOPSIS Model as a Mathematical Support In the Selection of Project From Aspect of Mobility*, International conference of applied sciences engineering and mathematics: "Apply the science of today - create the opportunities of tomorrow" (ICASEM 2017), ISBN 978-608-65137-5-7, International Balkan University, Ohrid-Struga, Republic of Macedonia
- Aybeyan Selimi, Suad Bećirović: *Applied Analysis of Electronic Market Preferences of the Students of International Vision University*. 3th International Congress on Economics and Business "New Economic Trends and Business Opportunities" Novi Sad SERBIA; 05/2017
- Aybeyan Selimi: *Single Period Mean -Variance Model With Risky Assets Only*. 2nd International Congress On Economics And Business (ICEB'16) "New Economic Trends and Business Opportunities", Sarajevo; 05/2016
- Milošević A., Šćepanović J., Milošević M., Selimi A., *Optimal organization of work for winter roads maintenance by implementing multi-criteria analysis methods*, E – GTZ 2016, 3 rd International Scientific Meeting, Tuzla, 2. – 4. June 2016, pp. 725 – 732 ISBN 978-9958-628-18-4
- Aleksandra Milošević, Mimica Milošević, Dušan Milošević, Aybeyan Selimi: *Višekriterijumska AHP metoda za održiv razvoj u građevinarstvu*. DOI:10.14415/konferencijaGFS2016.094
- Selimi A. Milošević M., Milošević D. *Analiza informisanosti za održivi razvoj u Makedoniji sa matematičkim osvrtom*, 11th International conference management and safety – M&S 2016 conference theme: sustainable development and safety program cycle: modern management concepts and safety, 2016, Serbian language UDC 005:502(497.7)
Selimi A., Rushiti A., *DEA Model for Innovative Research Teams in Republic of Macedonia*, 14. Uluslararası Türk Dünyası Sosyal Bilimler Kongresi, E-ISBN 978-975-498-238-1, pp. 826 – 832.

International Panel Discussions

- "Sustainability: improving our products, people and planet", World Quality Week, 7-11 November 2022, Gostivar, North Macedonia
- Conference on promoting academic integrity, Erasmus UniversityRotterdam & Council of Europe, 5 Oct. 2022, Rotterdam
- Experience Sharing and Cooperation Possibilities Between Türkiye and North Macedonia in the Field of Higher Education, June, 9 – 10, 2022, Gostivar, North Macedonia

**Memberships and Reviews –
Conferences****Chief Editor**

International Scientific Journal Vision (ISSN: 2545-4323) (2022-2024)

Editorial Board

- Journal of Emerging Computer Technologies (e-ISSN: 2757-8267)
- Hikmet International Uluslararası Hakemli İlmî Araştırma Dergisi
- Journal of Applied Multidisciplinary Science

Management Information Systems Field Editor

- Izmir Journal of Social Sciences

Invited Speaker

- İzmir International Conference on Technology and Social Sciences, "New Studies and Trends in Social Sciences", August 17-19,2022, İzmir, Türkiye
- 5th International Conference on Data Science and Applications (ICONDATA'22), September 7-11, 2022, in Muğla/Fethiye, Türkiye

Reviewer

- Array - ELSEVIER multidisciplinary journal
- Computer science AGH - Poland (WOS, e-ISSN: 2300-7036)
- Multimedia Tools and Applications (WOS, e- ISSN: 1573-7721)
- Expert Systems (WOS, e- ISSN: 1468-0394)
- IEEE Transactions on Reliability (WOS, e- ISSN: 0018-9529)
- International Journal on Artificial Intelligence Tools (WOS, e- ISSN: 1793-6349)
- Mathematics (WOS, e- ISSN: 2227-7390)
- Symmetry (WOS, ISSN 2073-8994)
- Molecules (WOS, ISSN 1420-3049)
- Fractal and Fractional (WOS, ISSN 2504-3110)
- Journal of Emerging Computer Technologies (e-ISSN: 2757-8267)
- Electronics (WOS, ISSN 2079-9292)
- Applied Sciences (WOS, ISSN: 2076-3417)
- Sustainability (WOS, ISSN 2071-1050)
- Sensors (WOS, ISSN 1424-8220)
- Machines (WOS, ISSN 2075-1702)

Organizing/Executive /Scientific Board

- 21. International Turkish World Social Sciences Congress, Gazi University, Ankara, Türkiye , 11 October 2023
- The 12th International Symposium on Intelligent Manufacturing and Service Systems, May 26-28, 2023 İstanbul, Türkiye
- ICONST- Conference on Engineering Science and Technology conference / 8-10 September 2021 Budva, Montenegro
- Ekonomik, Siyasal, Sosyal, Tarihsel, Uluslararası İlişkiler ve Güvenlik Boyutlarıyla Türkiye – Avrupa İlişkileri” , 27-28-29 Kasım 2021, Turkey
- International CEO and Social Sciences Congress (CEOSSC)" 18-20 December 2020
- Bandırma'nın Geleceği" başlığıyla 21-23 Kasım 2019 tarihlerinde Bandırma, Turkey
- V. Uluslararası Stratejik Araştırmalar Kongresi Agustos 28/31. 2019, 28/31, North Macedonia