

Türkçe

3D GeoInformatics Research Group (3DGIRG)

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Profiles



Prof. Dr. İsmail Rakıp Karas



Address Karabük University
(KBÜ)
Faculty of Engineering,
Computer Engineering
Department,
Demir Celik Campus
78050 Karabük,
TURKEY



[Click for my KBÜ web page](#)

Phone +90.370.418 8118, +90.370.418 7283

Fax +90.370.433 3290

E-mail ismail.karas@karabuk.edu.tr
irkaras@gmail.com

Short Biography

Ismail Rakıp Karas is a Professor of Computer Engineering Department and Head of 3D-GeoInformatics Research Group at Karabük University, Turkey. He received his BSc degree from Selçuk University, MSc degree from Gebze Institute of Technology, and PhD degree from GIS and Remote Sensing program of Yildiz Technical University, in 1997, 2001 and 2007 respectively, three of them from Geomatics Engineering Department. In 2002, he involved in a GIS project at Forest Engineering Department, Oregon State University, USA. During the various periods of 2010, 2011, and 2014, he was a Visiting Researcher in 3D GIS Research Lab, Faculty of Geoinformation Science and Engineering, Universiti Teknologi Malaysia. Between 2000-2009, he was a Research Assistant at Geomatics Engineering Department of Gebze Institute of Technology. Since 2009, he has been in Karabük University and taught undergraduate and graduate classes in Geoinformation and Computer Sciences.

Prof Dr Ismail Rakıp Karas was the Member of Executive Committee in CAYDAG-TUBITAK (A committee under the Scientific and Technological Research Council of Turkey) between 2017 and 2019. He has also carried out administrative duties such as Head of Computer Science Division of Department, Director of Safranbolu Vocational School, Dean of Safranbolu Fine Art and Design Faculty, and acting Dean of Faculty of Architecture in the Karabük University. Currently, he is the Deputy Rector in the same university. As a keynote speaker, Prof Karas has been invited to the different high level conferences. He is the author of more than a hundred international and Turkish publications and papers on various areas of Geoinformation Science. He has organized and chaired some important conferences and workshops such as Geo-Advances 2017. He is in the editorial board of "International Journal of Geo-Spatial Knowledge and Intelligence", "American Journal of Geographic Information System", and some others. He has involved in Tubitak, EU, and other national and international projects and got various awards and supports during his research activities. For more information please visit; <http://www.ismailkaras.com>

Areas of Interest

GeoInformatics, Geographic Information Systems, GIS, Three Dimensional Geographic Information Systems (3D-GIS), Network Analyses, Web based GIS, Geo-Databases, Spatial Data Structures, Computer Graphics, Computational Geometry, Image Processing, Graph Theory, Location Based Services, Indoor Navigation, Intelligent transportation/evacuation models, Topology in GIS.

Academic and Work Experience

2023 - : Deputy Rector, Karabük University

2023 - 2024 : Acting Dean, Faculty of Architecture, Karabük University

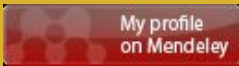
2017 – 2021 : Dean of [Safranbolu Fethi Toker Fine Art and Design Faculty, Karabük University](#)

2017 – 2019 : Member of Executive Committee (Sole Representative of Geomatics Field), CAYDAG-TUBITAK (A Research Group of The Scientific and Technological Research Council of Turkey)

2017 – : Full Professor, [Karabük University, Faculty of Engineering, Computer Engineering Department](#)



WOS-1 WOS-2



2012 – 2017 : Associate Professor, [Karabük University, Faculty of Engineering, Computer Engineering Department](#)

2009 – 2012 : Assistant Professor, [Karabük University, Faculty of Engineering, Computer Engineering Department](#)

2015 – 2017 : [Safranbolu Vocational School Director, Karabük University](#)

2011 – 2016 : Deputy Chair of Department, Computer Engineering Department, Karabük University

2009 – : Head of Computer Science Division, Computer Engineering Department, Karabük University

2013 – 2014 : Member of Committee on Scientific Research and Publication Ethics, Karabük University

2009 – 2010 : Distance Education Learning Center Director, Karabük University

June-Oct 2010, June-Sept 2014: Visitor Researcher, [3D GIS Research Lab, Faculty of Geoinformation and Real Estate, Universiti Teknologi Malaysia \(UTM\), Johor, Malaysia](#)

2008 – 2009 : Geodesy and Target Determination Platoon Commander, 9th Motorized Infantry Brigade, Sarikamis, Kars, Turkey. (Compulsory Military Service)

1999 – 2009 : Researcher, [Gebze Institute of Technology, Department of Geodetic and Photogrammetric Engineering](#).

April 2002 – July 2002 : Graduate Student Intern, [Forest Engineering Department, College of Forestry, Oregon State University, Corvallis, OR, USA](#)

Education

PhD, 2007, Geographic Information Systems and Remote Sensing Program, [Department of Geomatics Engineering, Yildiz Technical University](#)

MSc, 2001, [Department of Geomatics Engineering, Gebze Institute of Technology](#)

BSc; 1997, [Department of Geomatics Engineering, Selcuk University](#)

Basic Education; [TED Karabük College, Safranbolu High School](#)

Projects

27. Co-Administrator, Japan - Türkiye - France - Hungary Int'l Joint Research Project under "Solutions for Carbon-Neutral Cities" call, Supported by EIG-Concert Japan and TÜBİTAK 1071. Project Title: **"So-Smart / A Proactive Social-Based Framework for Smart Transportation"**, Project Partners: Nara Institute of Science and Technology, Japan; University of Szeged, Hungary; Okinawa Institute of Science and Technology, Japan; Karabük University, Türkiye; University of Western Brittany, France. 2023 - (EIG: EU The European Interest Group, CONCERT Japan: Connecting and Coordinating European Research and Technology Development with Japan, TÜBİTAK: The Scientific and Technological Research Council of Türkiye)
26. Consultant, Tübitak 4004 Project, **"Bilim ve Teknoloji ile Doğada Yürüyorum, Çevre ve İklim Değişiminin Farkına Varıyorum!"** (Project Administrator: Taner Tünay (Principal of Safranbolu Vilayetler Birliği Secondary School))
25. Consultant, 1001 Research Project Supported by TUBITAK (The Scientific and Technological Research Council of Turkey), **"Deep-AutoML: Developing Innovative Deep-Layered End-to-End AutoML Pipelines on the Simplified Web-Based Interface for Producing Landslide Susceptibility Mapping"**, Project ID: 123Y295 (2023-2025)
24. Co-Administrator, Matching Grant Project, **"Automatic Repair Technique for Semantic 3D Building Models based on CityJSON Standard"** Karabük University & Universiti Teknologi Malaysia, Project ID: KBÜBAP-23-KTP-106 (2023-2024)
23. Principle Investigator (Project Administrator), Mevlana Project Program supported by Turkish Higher Education Council, **"Development Of Navigation System For Indoor By Using Wearable Mobile Technologies"**, Project Partner: Universiti Teknologi Malaysia, Malaysia. Proje ID: MEV.2019-1757 (2019-2022)
22. Principle Investigator (Project Administrator), Mevlana Project Program supported by Turkish Higher Education Council, **"Design of Indoor Robot Prototype Guided by RFID Based Positioning and Navigation System"**, Project Partner: Vasyl Stefanyk Precarpathian National University, Ukraine. Project ID: MEV-2018-1342, 2019-2020

21. Principle Investigator (Project Administrator), 1001 Research Project Supported by TUBITAK (The Scientific and Technological Research Council of Turkey), **"Intelligent Dynamic Evacuation System: Developing User-Based Smart Building Evacuation Model for Emergency Cases by Using Artificial Intelligence Techniques"**, Project ID: 112Y050, 2012-2015
20. GIS Expert, ARS Progetti SPA-Italy, **"Technical Assistance for the Institutional Building of Transport Coordination Unit Regarding Transport Infrastructure Needs Assessment Information System"**, Ministry of Transport Project Supported by European Union, Project ID: TR0702.28-01/FWC/066, Jan 2011 - Aug 2011
19. Co-Administrator, **"Genetic Algorithm-Aided Routing for 3D Dynamic Networks Using RFID based Positioning"**, Universiti Teknologi Malaysia Research University Grant Scheme Project, Project ID: PY/2011/00991, 2011-2013. Administrator: Alias Abdul-Rahman
18. Principle Investigator (Project Administrator), Karabük University Research Project, **"Development Of A 3D GIS Based Intelligent Mobile Navigation System for Evacuation of Indoor Environments in Emergency Cases"**, Project ID: KBÜ-BAP-14/2-DR-007, 2013-2017
17. Principle Investigator (Project Administrator), Karabük University Research Project, **"Artificial Intelligence Based Personal Smart Evacuation Model Design for the Occupants in the Complex Buildings within the Scope of 3D GIS"**, Project ID: KBÜ-BAP-11/2-DR-005, 2010-2014
16. Principle Investigator (Project Administrator), Karabük University Research Project, **"Generating Rapid, High Quality and Low Size 3D City Models and Integration with Internet-Based 3D Campus Information System"**, Project ID: KBÜ-BAP-11/2-YL-019, 2011-2013
15. Principle Investigator (Project Administrator), Karabük University Research Project, **"RFID Based Indoor Positioning System Design in the Scope of 3D GIS"**, Project ID: KBÜ-BAP-13/2-YL-028, 2011-2013
14. Principle Investigator (Project Administrator), Karabük University Research Project, **"Development of Full or Semi Automated Method for the Correction of Topological Problems of Travel Data Collected by Mobile Devices"**, Project ID: KBÜBAP-17-DR-437, 2017-
13. Principle Investigator (Project Administrator), Karabük University Research Project, **"Road Detection from Satellite Images by Using ANN and Obtaining Topological Graph Model"**, Project ID: KBÜBAP-17-DR-436, 2017-
12. Principle Investigator (Project Administrator), Karabük University Research Project, **"Real-Time Navigation System Implementation within The Scope Of 3D Geographic Information Systems For Multi Storey Car Park"**, Project ID: KBÜ-BAP-16/1-YL-141, 2016-
11. Principle Investigator (Project Administrator), Karabük University Research Project, **"Augmented Reality Application For Historical Place Of Safranbolu Eski Carsi"**, Project ID: KBÜ-BAP-16/1-YL-140, 2016-
10. Principle Investigator (Project Administrator), Istanbul Metropolitan Municipality Project, **"Designing Topological Relationships of the 3D Objects and Network Analysis in 3D GIS"**, 2006 – 2007
9. Researcher, Istanbul Metropolitan Municipality Project, **"Developing and Designing GIS for Istanbul Surrounding Plans"**, June 2005-June 2006
8. Principle Investigator (Project Administrator), Istanbul Metropolitan Planning Center Project, **"Web Based Stock Tracking System"**, 2005 - 2006
7. Researcher, Gebze Technical University Research Project, **"Web Based Information System Designing For Academic Activities"**, Project ID: 2003-A-19, June 2003 – June 2004
6. Researcher, Gebze Technical University Research Project, **"Designing Gebze Institute of Technology Campus Information System"**, Project ID: 2003-A-20, June 2003 – June 2005
5. Researcher, Gebze Technical University Research Project, **"Developing Software Package for GPS Vector Networks"**, Project ID: 2003-A-21, June 2003 – June 2004
4. Researcher, **"Investigating Landslides and Aquatic Habitat Correlation"**, Oregon State University, USA, April 2002 – July 2002 (Project Administrator: Dr. Michael Wing)
3. Project Administrator representing Safranbolu Vocational School, Erasmus+ KA2 Project (Cooperation for Innovation and the Exchange of Good Practices Strategic Partnerships for vocational education and training), **"Fusion Cuisine"**, Project ID: 2016-1-TR01-KA202-035191, 2016-

2. Participant, Europe Union Grundtvig 2 Project, **"SUITCASE Sharing Understanding of Identity Through Culture, Art and Self Expression Citizenship"**, Project ID: 05-IRL01-S2G01-00068-1, Partners: The Darndale Belcamp Resource Centre-IR, Vraa Hojskole-DK, CTP 5 Circolo Didattico Portici-IT, CVO Antwerpen Zuid-BE, Vapaa Taidekoulu-FI, Gerede Municipality Presidency-TR, 2005-2006
[[Photos](#)]
1. Researcher/Specialist, TÜBİTAK Sector Research Project Supported by TUBITAK (The Scientific and Technological Research Council of Turkey), **"Evaluation of Micro-Scale Horizontal and Vertical Movements of the North Anatolian Fault Around the Hersek Plain (Yalova) Using Geodetic Methods"**, Project ID: 101Y075 (2001-2002)

Theses

- Ismail Rakip Karas, **"Evaluating Topological Relationships of the Objects in 3D GIS and Network Analysis"** (A 3D GIS Prototype Development for Network Analyses: Automatic Data Extraction/Generation, Network Analyses, Simulation, and Navigation), PhD Thesis, Istanbul, 2007.
[[Abstract](#)] [[Full Thesis \(PDF\)](#)]
- Ismail Rakip Karas, **"Software Development and Internet Applications for GIS"**, MSc Thesis, Gebze, 2001.
[[Abstract](#)] [[Full Thesis \(PDF\)](#)]
- Ismail Rakip Karas, **"Basic Language Programming for Land Surveying Problems"**, BSc Thesis, Konya, 1997.
[[Info](#)]

Publications Books and Book Chapters

19. Mohamed Ben Ahmed, Anouar Abdelhakim Boudhir, Rani El Meouche, Ismail Rakip Karas (Eds.), 2024, **"Innovations in Smart Cities Applications Volume 7"**, Series: Lecture Notes in Networks and Systems, Published by Springer, Switzerland AG 2024, ISBN 978-3-031-53824-7
18. Jamali, A., Karas, İ.R. (2022). **"Land Use Land Cover Mapping in Support of Land Degradation Mapping Using Tree-Based Classifiers"**. In: Al-Quraishi, A.M.F., Mustafa, Y.T., Negm, A.M. (eds) **Environmental Degradation in Asia**. Earth and Environmental Sciences Library. Springer, Cham. https://doi.org/10.1007/978-3-031-12112-8_1
17. I. R. Karas, M. Ben Ahmed, A. B. Abdelhakim, R. Dionisio, D. Santos, and B. K. Ane, Editor of **Volume XLVIII-4/W3-2022, The International Archives of the Photogrammetry, Remote Sensing and Spatial Information Sciences**, 2022.
16. Mohamed Ben Ahmed, Anouar Abdelhakim Boudhir, Ismail Rakip Karas, Vipul Jain, Sehl Mellouli (Eds.), 2022, **"Innovations in Smart Cities Applications Volume 5"**, Series: Lecture Notes in Networks and Systems, Published by Springer, Switzerland AG 2022, ISBN 978-3-030-94190-1
15. I. R. Karas, M. Ben Ahmed, A. A. Boudhir, and B. K. Ane, Editor of **Volume XLVI-4/W5-2021, The International Archives of the Photogrammetry, Remote Sensing and Spatial Information Sciences**, 2021.
14. Mohamed Ben Ahmed, İsmail Rakip Karas, Domingos Santos, Olga Sergeyeve, Anouar Abdelhakim Boudhir (Eds.), 2021, **"Innovations in Smart Cities Applications Edition 4"**, Series: Lecture Notes in Networks and Systems, Published by Springer, Switzerland AG 2021, ISBN 978-3-030-66839-6
13. I. R. Karas, M. Ben Ahmed, A. A. Boudhir, and B. K. Ane, Editor of **Volume XLIV-4/W3-2020, The International Archives of the Photogrammetry, Remote Sensing and Spatial Information Sciences**, 2020.
12. Ben Ahmed, M., Boudhir, A.A., Santos, D., El Aroussi, M., Karas, I.R. (Eds.), 2020, **"Innovations in Smart Cities Applications Edition 3"**, Series: Lecture Notes in Intelligent Transportation and Infrastructure, Published by Springer, Switzerland AG 2020, ISBN 978-3-030-37628-4
11. Abujayyab S.K.M., Karas I.R. (2020) **"Handling Massive Data Size Issue in Buildings Footprints Extraction from High-Resolution Satellite Images"**. In: Ofluoglu S., Ozener O., Isikdag U. (eds), Pages 195-210, **Advances in Building Information Modeling**. Series: Communications in Computer and Information Science, vol 1188. Published by Springer, Switzerland AG 2020, ISBN 978-3-030-42851-8
10. Ben Ahmed Mohamed, İsmail Rakip Karas, Rachid Saadane, Wassila Mtalaa, Boudhir Anouar Abdelhakim, Editors of **"Proceedings of the 4th**

International Conference on Smart City Applications", Publisher: Association for Computing Machinery (ACM Library), (2019), New York, NY, United States, ISBN: 978-1-4503-6289-4

9. R. Hassan, I. R. Karas, U. Isikdag, and A. A. Rahman, Editor of **Volume XLII-4/W12, The International Archives of the Photogrammetry, Remote Sensing and Spatial Information Sciences**, 2018.
8. Karas I.R., Atila U., Demiral E. (2017) "**Developing a 3D Routing Instruction Engine for Indoor Environment**". In: Yuan H., Geng J., Bian F. (eds), Pages: 34-42, *Geo-Spatial Knowledge and Intelligence. Series: Communications in Computer and Information Science (CCIS)*, vol 698. Published by Springer, Singapore, 2017, ISBN 978-981-10-3965-2.
7. I. R. Karas, U. Isikdag, A. A. Rahman, Editor of **Volume XLII-4/W6, The International Archives of the Photogrammetry, Remote Sensing and Spatial Information Sciences**, 2017.
6. I. R. Karas, U. Isikdag, A. A. Rahman, Editor of **Volume IV-4/W4, ISPRS Annals of the Photogrammetry, Remote Sensing and Spatial Information Sciences**, 2017.
5. Umit Atila, Ismail Rakip Karas, Yasin Ortakci, "**3D Network Analysis for User Centric Evacuation Systems**", Pages: 101-114, *Encyclopedia of GIS*, Editors: Shashi Shekhar, Hui Xiong, Xun Zhou, Published by Springer International Publishing Switzerland 2016, ISBN 978-3-319-23519-6
4. U. Isikdag, A. A. Rahman, F. A. Castro, and I. R. Karas, Editor of **Volume XLII-2/W1, The International Archives of the Photogrammetry, Remote Sensing and Spatial Information Sciences**, 2016.
3. Umit Atila, Ismail Rakip Karas, Muhammed Kamil Turan, Alias Abdul- Rahman, "**Automatic Generation of 3D Networks in CityGML and Design of an Intelligent Individual Evacuation Model for Building Fires Within the Scope of 3D GIS**", Pages: 123-142, *Innovations in 3D Geo-Information Sciences, Series: Lecture Notes in Geoinformation and Cartography*, Editor: U. Isikdag, Published by Springer International Publishing Switzerland 2014, 320 p., Hardcover, ISBN 978-3-319-00514-0
2. Umit Atila, Ismail Rakip Karas and Alias Abdul Rahman, "**A 3D-GIS Implementation for Realizing 3D Network Analysis and Routing Simulation for Evacuation Purpose**", Pages: 249 - 260, *Progress and New Trends in 3D Geoinformation Sciences, Series: Lecture Notes in Geoinformation and Cartography*, Editors: Pouliot, J.; Daniel, S.; Hubert, F.; Zamyadi, A., (Published by Springer Verlag, Berlin Heidelberg, 2013, 400 p., Hardcover, ISBN 978-3-642-29792-2)
1. Ismail Rakip Karas, Fatmagul Batuk, Abdulah Emin Akay, Ibrahim Baz, "**Automatically Extracting 3D Models and Network Analysis for Indoors**", Pages: 395 - 404, *Innovations in 3D Geoinformation Science, Series: Lecture Notes in Geoinformation and Cartography*, Editors: A. Abdul-Rahman, S. Zlatanova, V. Coors, (Published by Springer Verlag, Berlin Heidelberg, 2006, XX, 760 p., 438 illus., Hardcover, ISBN: 3-540-36997-X)

Journal Articles

34. Kahraman İ, Karaş İR, Turan MK. "**Real-Time Protozoa Detection from Microscopic Imaging Using YOLOv4 Algorithm**", *Applied Sciences*. 2024; 14(2):607. <https://doi.org/10.3390/app14020607>
33. Sohaib K.M. Abujayyab, Rania Almajalid, Raniyah Wazirali, Rami Ahmad, Enes Taşoğlu, Ismail R. Karas, Ihab Hijazi, "**Integrating object-based and pixel-based segmentation for building footprint extraction from satellite images**", *Computer and Information Sciences*, Volume 35, Issue 10, 2023, 101802, ISSN 1319-1578
32. Özkan, M., Karaş, İ. R. & Özcan C. (2023). "**Web Tabanlı Uygulamaların Coğrafi Bilgi Sistemleri ile Desteklenmesi**", *International Journal of Advanced Natural Sciences and Engineering Researches*, 7(7), 171-179.
31. Anday Duru, Ismail Rakip Karas, Fatih Karayürek, Aydın Gülses (2022), "**A Deep Learning Approach for Classification of Dental Tubule Occlusions**", *Applied Artificial Intelligence*, 36:1, DOI: 10.1080/08839514.2022.2094446
30. A. Mazouzi, S. Reguieg Yssaad, I. Rakip Karas (2022), "**A Hybrid Method for Road Marking Detection**", *International Review of Automatic Control (I.R.E.A.CO.)*, Vol. 15, N. 1, ISSN 1974-6059, DOI: 10.15866/ireaco.v15i1.21708.
29. Alizadehashrafi, B., Darkahi Ghareh Bagh, M., Ata, S., Karas, I. R. (2021). "**Examination of Logical Structure in Photo Series Using Electroencephalography and Eye Tracking Techniques**". *International Journal of Multidisciplinary Studies and Innovative Technologies*, 5(1), 107-113.

28. Mazouzi Amine, Kerfa Djoudi, Ismail Rakip Karas, "**A new method for vehicles detection and tracking using information and image processing**", International Journal of Electrical and Computer Engineering (IJECE), Vol.11, No.6, December 2021, pp. 4942~4949, ISSN: 2088-8708, DOI: 10.11591/ijece.v11i6.pp4942-4949
27. Ali Hassan Chughtai, Habibullah Abbasi, Ismail Rakip Karas, "**A review on change detection method and accuracy assessment for land use land cover**", Remote Sensing Applications: Society and Environment, Volume 22, 2021, 100482, ISSN 2352-9385.
26. T. A. Almohamad, M. F. M. Salleh, M. N. Mahmud, İ. R. Karas, N. S. M. Shah and S. A. Al-Gailani, "**Dual-Determination of Modulation Types and Signal-to-Noise Ratios Using 2D-ASIQH Features for Next Generation of Wireless Communication Systems**", in IEEE Access, vol. 9, pp. 25843-25857, 2021, doi: 10.1109/ACCESS.2021.3057242.
25. Abujayyab, S, Karas, İ. (2020). "**Landslide Susceptibility Mapping Using Shallow Neural Networks Model at Refahiye District in Turkey**". Turkish Journal of Remote Sensing and GIS, 1(2), 61-77.
24. Sohaib K. M. Abujayyab, Ismail Rakip Karas, "**Employing Neural Networks Algorithm for LULC Mapping**", Baltic J. Modern Computing, Vol. 8 (2020), No. 2, 370-378.
23. Anton Yudhana, Jessy Rahmayanti, Son Ali Akbar, Subhas Mukhopadhyay and Ismail Rakip Karas, "**Modification of Manual Raindrops Type Observatory Ombrometer with Ultrasonic Sensor HC-SR04**" International Journal of Advanced Computer Science and Applications (IJACSA), 10(12), 2019.
22. Anton Yudhana, Yunita Dwi Andriliana, Son Ali Akbar, Sunardi, Subhas Mukhopadhyay and Ismail Rakip Karas, "**Monitoring of Rainfall Level Ombrometer Observatory (OBS) Type using Android Sharp GP2Y0A41SK0F Sensor**" International Journal of Advanced Computer Science and Applications (IJACSA), 10(11), 2019.
21. Noor Ahmed Shaikh, Ghulam Ali Mallah, İsmail Rakip Karas, Abdullah Emin Akay, "**Using Mobile Image Recognition System for Nonwood Species Identification in the Field**", Journal of Innovative Science and Engineering (JISE), Year 2018, Volume 2, Issue 2, Pages 40 - 50.
20. Kadriye Oz, İsmail Rakip Karas, "**Anomaly Detection with Structural Similarity and Optical Flow Histogram**", Journal of Intelligent Systems with Applications, Volume: 1, Issue: 1, Pages: 127-130, 2018
19. Umit Atila, Yasin Ortakci, Kasim Ozacar, Emrullah Demiral, Ismail Rakip Karas, "**SmartEscape: A Mobile Smart Individual Fire Evacuation System Based on 3D Spatial Model**", ISPRS International Journal of Geo-Information 2018, 7(6), 223.
18. Yasin Ortakci, Umit Atila, Emrullah Demiral, Ismail Rakip Karas, "**Intelligent Mobile Indoor Navigation System for Fire Evacuation Based on Artificial Neural Network**", in International Journal of Computer Science and Information Security. November 2016, Vol 14 (11), pp. 980-996.
17. Idris Kahraman, Muhammed Kamil Turan, and Ismail Rakip Karas, "**Road Detection from High Satellite Images Using Neural Networks**", International Journal of Modeling and Optimization, Vol. 5, no. 4, pp. 304-307, 2015.
16. Oguz Kose, Ismail Rakip Karas, Umit Atila, "**PID Controlled Line Follower Robot Design on Indoor 3D Networks**", TELKOMNIKA, Telecommunication, Computing, Electronics and Control, Vol 13(4).
15. Umit Atila, Ismail Rakip Karas, Alias Abdul-Rahman, "**Integration of CityGML and Oracle Spatial for implementing 3D network analysis solutions and routing simulation within 3D-GIS environment**", Geo-Spatial Information Science, Vol 16(4), 221-237 pp., 2013.
14. Ismail Rakip Karas, Fatmagul Batuk, Alias Abdul Rahman, "**An Evacuation System For Extraordinary Indoor Air Pollution Disaster Circumstances**", Disaster Advances Journal, Vol 5(2), 33-40 pp., 2012.
13. Ismail Rakip Karas, Sait Demir, "**Use of Geographic Information Systems in Iron and Steel Industry**", Energy Education Science and Technology Part A: Energy Science and Research, Vol. 29(2), 1387-1398 pp., 2012.
12. Ismail Rakip Karas, Sait Demir, "**Dijkstra Algorithm Interactive Training Software Development for Network Analysis Applications in GIS**", Energy Education Science and Technology Part A: Energy Science and Research, Vol. 28(1), 445-452 pp., 2011.
[Full Paper (PDF)]

11. Abdul Salam Soomro, Abdul Qadeer Khan Rajput, Ismail Rakip Karas, "**GIS-Based Terrain Analysis of Balakot Region after occurred Landslide Disaster in October 2005**", Mehran University Research Journal of Engineering & Technology, ISSN: 0254-7821, **Volume: 30, Issue: 4, Pages: 673-680**, 2011.
10. Ismail Rakip Karas and Umit Atila, "**A Genetic Algorithm Approach for Finding the Shortest Driving Time on Mobile Devices**", Scientific Research and Essays, ISSN 1992-2248, Vol. 6(2), pp. 394-405, 2011.
9. Karas I.R., Batuk F., Yesil E., "**The Difficulties in Realising 3D GIS and 3D Spatial Analysis Applications**", (in Turkish), Electronic Journal of Map Technologies, ISSN: 1309-3983, Vol. 2(3), Pages: 1-12, 2010.
8. Idris Kahraman, Ismail Rakip Karas, Alias Abdul-Rahman, Behnam Alizadehashrafi, "**Photo Realistic Modeling of the Buildings and Integration with Google Earth for Urban Information Systems**" (In Turkish), Academic Platform Journal of Engineering and Science, Vol 1(2), 28-33 pp., 2013.
7. Ismail Rakip Karas, Yasin Ortakci, Muhammed Kamil Turan, "**Interactive Training Software for Optimum Travel Route Analysis Applications in Railway Networks**", Engineering Science and Technology, an International Journal, Vol 16(2), pp. 81-87, 2013
6. Habibullah U. Abbasi, Ismail Rakip Karas, Mushtaq Ahmed Baloch, "**Assessment of Deforestation of Riverine Forests of Nawabshah and Hyderabad Divisions Using Landsat Data**", International Geoinformatics Research and Development Journal, Vol. 3, Issue 1, 31-39 pp., 2012
5. Abdullah Emin Akay, Kazuhiro Aruga, Hakan Oguz, Ismail Rakip Karas, Recep Gundogan, "**Using Lidar Remote Sensing Technology In Forestry Applications**", Environmental Monitoring and Assessment, ISSN: 0167-6369, Volume: 151(1), Issue: 1-4, Pages: 117-125, 2009.
4. H. U. Abbasi, A. G. Memon, I. R. Karas, S. M. Ghoto, M. A. Baloch, S. Shaikh, "**Assessment of Natural and Anthropogenic Impact on Riverine Forest Using Analytic Hierarchy Process Model**", Sindh University Research Journal (Science Series), Vol. 44 (1), 01-06 pages, 2012.
3. Atila, U., Karas, I.R., Gologlu, C., Yaman, B., Orak, I.M., "**An idea for finding the shortest driving time using genetic algorithm based routing approach on mobile devices**", International Journal of Mathematics and Computers in Simulation, Volume 6, Issue 1, 2012, Pages 9-16
2. Ismail Rakip Karas, Bulent Bayram, Fatmagul Batuk, Abdullah Akay, Ibrahim Baz, "**Multidirectional Scanning Model, MUSCLE, to Vectorize Raster Images with Straight Lines**", Sensors, ISSN: 1424-8220, Volume: 8, Issue: 4, Pages: 2673-2694, 2008.
1. H. U. Abbasi, A. S. Soomro, A. Memon, S. R. Samo, I. R. Karas, "**Temperature Modeling of Indus Basin Using Landsat Data**", Sindh University Research Journal (Science Series), Vol.44 (2), 177-182 pages, 2012

Keynote & Invited Speeches and Presentations

29. Ismail Rakip Karas, "**Networking / Internet Structure of an GIS Based Navigation Application**", 7th International Conference on Internet Applications, Protocols, and Services (NETAPPS2024), 6-7 November 2024, Kuala Lumpur, Malaysia.
28. Ismail Rakip Karas, "**3D GIS Applications; Data Analyses and Visualisation**", 2nd International Conference on Emerging Trends and Applications in Artificial Intelligence (ICETAI), October 02-03, 2024, Baghdad, Iraq.
[haber](#) [foto](#) [video](#)
27. Ismail Rakip Karas, "**ERASMUS+: Turkish Experience**", Unlocking Global Synergies Webinars, Organised by School of Computing (SOC), in conjunction with SOC Karnival 2024, 27 May 2024, Universiti Utara Malaysia, Sintok, Kedah, Malaysia.
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6. Trainer, "**Training for Scientific Project Management and Proposal Writing**", 28-29 Dec 2019, Karabük University. (Other Trainers: Prof. Dr. Mustafa Büyükat, Prof. Dr. Mustafa Keskin, Prof. Dr. İlkey Erdoğan Orhan, Prof. Dr. Nurettin Demir, Prof. Dr. Rahmi Ünal, Prof. Dr. Hasan Solmaz, Accos. Prof. Dr. Engin Gedik)
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Hai Jin (China), Dr Rudra Pandey (Nepal), Dr Nasrullah Memon (Denmark), Dr Zubair A Shaikh (Pakistan), Dr Irfan Haider (Pakistan), Dr Jamil Kazmi (Pakistan), Dr Ishtiaq Choudhry (Pakistan), Dr Altaf Hussain Bouk (Saudi Arabia), Engr Parkash Lohana (IEEE Representative), 2nd International Conference on Computer & Emerging Technologies (ICCET 2012), April 13 – 15, 2012, Shah Abdul Latif University, Khairpur, Sindh, Pakistan.

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Thesis Supervision

PhD Supervision

1. Author: Umit Atila, Supervisor: Ismail Rakip Karas, Thesis Title: **"Artificial Intelligence Based Personal Smart Evacuation Model Design for the Occupants in the Complex Buildings within the Scope of 3D GIS"**, Completed in 2013.
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2. Author: Yasin Ortakci, Supervisor: Ismail Rakip Karas, Thesis Title: **"Development Of A 3D GIS Based Intelligent Mobile Navigation System for Evacuation of Indoor Environments in Emercengy Cases"**, Completed in 2017.
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3. Idris Kahraman, Supervisor: Ismail Rakip Karas, **"Mikroskobik Görüntüler Üzerinde Derin Öğrenme Kullanarak Gerçek Zamanlı Protozoa Tespiti"**, Completed in 2024.
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6. Anday Duru, Supervisor: Ismail Rakip Karas, **"Taramalı Elektron Mikroskopu Görüntüleri Üzerinden Dentin Tübüllerinin Derin Öğrenmeye Dayalı Analizi"**, Completed in 2023.
7. Mustafa Aksin, Supervisor: Ismail Rakip Karas, **"Semantik Açidan Zenginleştirilmiş 3B Bina Modelleri ile Safranbolu'daki Tarihi Kent Dokusuna Ait Yapıların Sınıflandırılması"**, 2019 -
8. Hacer Kübra Sevinç, Supervisor: Ismail Rakip Karas, **"LIDAR Verileri İle Makine Öğrenmesi Yaklaşımı Kullanılarak 3B Bina Modelleri Çıkarılması"**, 2019 -
9. Nouha Lahrire, Supervisor: Ismail Rakip Karas, **"A CNN model for 3D City Model Reconstruction and its Visualisation: The Case Study of Karabük University Campus"**, 2020 -

MSc Supervision

1. Author: Idris Kahraman, Supervisor: Ismail Rakip Karas, **"Generating Rapid, High Quality and Low Size 3D City Models and Integration with Internet-Based 3D Campus Information System"**, Completed in 2013.
2. Author: Emrullah Demiral, Supervisor: Ismail Rakip Karas, **"RFID Based Indoor Positioning System Design in the Scope of 3D GIS"**, Completed in 2014.
3. Merve Polat, Supervisor: Ismail Rakip Karas, **"Augmented Reality Application For Historical Place Of Safranbolu Eski Carsi"**, Completed in 2017.
[[Viva Photo](#)]
4. Hacer Kübra Sevinc, Supervisor: Ismail Rakip Karas, **"Mobile-Web Based Volunteered Geographic Information Application Intended For Traffic Accidents and Geometric Accuracy Analysis"**, Completed in 2019.
5. Berna Yenigün, Supervisor: Ismail Rakip Karas, **"Real-Time 3D Navigation System Implementation For Multi Storey Car Park"**, Completed in 2019.

6. Asma Rafique, "**Application of GIS And Neural Networking in Identification and Prediction Of Tourist Hot Spots: Case Of Aegean Region Of Turkey**", Completed in 2021.
7. Aybike Göksu Bektaş, "**The Use and Comparison of Machine Learning and Deep Learning Methods While Developing a Forest Fire Risk Map**", 2021

Non-Thesis Master's Supervision (Capstone Projects)

1. Oguz Köse, Supervisor: Ismail Rakip Karas, "**PID Controlled Line Follower Robot Design With Embedded Systems**", Completed in 2013.
2. Veli Eski, "**Development of Integrated Software Package to Organize Various Wage Profiles in Public Universities**", Completed in 2013.
3. Ozlem Usta Kiris, "**GIS Applications in Supply Section of Textile Industry**", Completed in 2020.
4. Neslihan Hosgorul, "**Geospatial Linked Data**", Completed in 2021.
5. Muge Guner, "**3D Modelling of Karabuk University Campus and Presenting on Web Environment**", Completed in 2023.

Visiting Researchers Hosted by [3DGIRG](#)

Fellow Researchers

1. Prof Dr Huda Ibrahim, Universiti Utara Malaysia, 2022.
2. Prof Dr Alias Abdul Rahman, Universiti Teknologi Malaysia, Malaysia, 2010, 2014, 2016, 2017, 2019.
3. Dr Mykola Kozlenko, Vasyl Stefanyk Precarpathian National University, Ukraine, 2019.
4. Dr Anton Yudhana, Dr Sunardi Sunardi, Ahmad Dahlan University, Indonesia, 2019.
5. Prof Dr Reza Mobasheri, KNToosi University of Technology, Iran, 2011.
6. Prof Dr Ghulam Ali Mallah, Prof Dr Noor Ahmad Shaikh, Prof Dr Noor Shah Bukhar, Shah Abdullatif University, Pakistan, 2018.
7. Prof Dr Rani Elmouche, École Spéciale des Travaux Publics, France, 2017.
8. Dr Behnam Alizadehashrafi, Tabriz Islamic Art University, Iran, 2016.

Post-Doctoral Researchers

1. Dr Sohaib Abujayyab (Palestine), "Automating A Spatial Data-Mining Model for Updating LULC Database to Support Land Management and Environmental Applications in Turkey", 2018.
2. Dr Iman Elawady (Algeria), "3D Image Compression", 2019.

Exchange/Internship Researchers

1. Abdul Wahid Shaikh, Mevlana Exchange Program, PhD Candidate, Shah Abdullatif University, Pakistan, 2018.
2. Pervaiz Ahmed Mahar, Mevlana Exchange Program, MSc Student, Shah Abdullatif University, Pakistan, 2018.

Awards and Supports

- Research Fellowship, Institute for Advanced and Smart Digital Opportunuiies, School of Computing, Universiti Utara Malaysia, Malezya, 21 August 2022.
- Funding Support for "3 in 1 Guest Lecture Program", Universitas Brawijaya, Malang, Indonesia, 2022
- The Scientific & Technological Research Council Of Turkey (TUBITAK), Support for 2211/C PhD Scholarship Program, 2021 (PhD Student: Anday Duru, Supervisor: Ismail Rakip Karas), 2021
- [Awarded as Fellow of International Engineering and Technology Institute \(IETI\), 2020](#)
- ERDT Funding Support for Visiting Professorship, The University of the Philippines Diliman, 2019
- [National Finalist Prize, First Prize of Ankara Region, The Scientific & Technological Research Council Of Turkey \(TUBITAK\), Award of 2242 Program: National Contest for Undergraduate Projects. "Wireless Mouse and Keyboard Controlled by Accelerometer and Tilt Sensors". Category: ICT, Supervisor: Ismail Rakip Karas, Student: Ceren Sabah.](#)
- The Scientific & Technological Research Council Of Turkey (TUBITAK), Support of 2221 Fellowship Program For Visiting Scientists, 2018 (Post-Doc Researcher: Dr

Sohaib Abujayyab, Supervisor: Ismail Rakip Karas)

- The Scientific & Technological Research Council Of Turkey (TUBITAK), Support of 2221 Fellowship Program For Visiting Scientists, 2015 (Visitor Researcher: Dr Behnam Alizadehashrafi, Supervisor: Ümit Atila - Ismail Rakip Karas)
- [Bronze Medal, The project titled as "Formalization of 3D Topology and 3D Geometry for 3D Indoor Navigation", 13th Industrial Art and Technology Exhibition \(INATEX 2011\), Universiti Technology Malaysia](#)
- Post Doctoral Research Support, High Education Council of Turkey, 2010
- The Scientific & Technological Research Council Of Turkey (TUBITAK), Support of 2223/D Program (Event Organization Support), 2014
- The Scientific & Technological Research Council Of Turkey (TUBITAK), Support of 2223/B Program (Event Organization Support), 2017
- The Scientific & Technological Research Council Of Turkey (TUBITAK), Support of 2224/A Program (International Conference Expenses Coverage Support), 2007
- The Scientific & Technological Research Council Of Turkey (TUBITAK), Support of 2224/A Program (International Conference Expenses Coverage Support), 2012
- Istanbul Metropolitan Municipality, Academic Researches Supporting Program Prize, PhD Thesis Supporting, 2006
- Certificate of Success, Involving the First 50 Projects of [BTHaber](#) (A Turkish Journal of IT), April 2005
- Deutsche Forschungs Gemeinschaft (DFG)" Congress Supporting, Berlin, March 2006
- The Scientific & Technological Research Council of Turkey (TUBITAK) Congress Participation Support, 1st Remote Sensing an GIS Workshop, Istanbul, Nov 2006.
- Congress Participation Support, XX. ISPRS Congress, Istanbul, 2004
- The Scientific & Technological Research Council of Turkey (TUBITAK) International Articles Publishing Encouragement Prizes

Membership

- [Member, United Nations Global Geospatial Information Management \(UN-GGIM\) Academic Network](#)
- [Member, United Nations Global Geospatial Information Management \(UN-GGIM\), Working Group on Geospatial Information and Services for Disasters](#)
- [Member, ISPRS - Technical Commission IV, Spatial Information Science, Working Group IV/1: Multi-dimensional Modelling](#)
- Advisory Board Member, International Association for Geo-information and Communication Technology (GeoICT)
- [Advisory Board Member, The World Academy of Research in Science And Engineering \(WARSE\)](#)
- [Member, Institute of Data Science and Artificial Intelligence \(IDSAI\)](#)
- Associate Member, INIT - COMSATS Institute of Information Technology.
- Professional Member, Institute of Advanced Engineering and Science (IAES), International scientific association of distinguished scholars engaged in engineering and science.
- Member, International Cartographic Association (ICA) Commission on Location-Based Services
- Member, Turkish Chamber of Survey and Cadastre Engineers
- Senior Member, International Association of Computer Science and Information Technology (IACSIT)
- Senior Member, Asia-Pacific Chemical, Biological& Environmental Engineering Society (APCBEEES)
- Senior Member, International Engineering and Technology Institute
- Senior Member (2015), International Engineering and Technology Institute (IETI)
- Active Member (2008-2012), ISPRS - Commission II - Theory and Concepts of Spatial Information Science Working Group II/5 - Multidimensional and mobile data models
- Member (2008-2012), ISPRS - Commission IV – Geodatabases and Digital Mapping, Working Group IV/8 – 3D Spatial Data Integration for Disaster Management and Environmental Monitoring

Conference Chairing

- Conference and Organization Chair, [The Sixth International Conference on Smart City Applications \(SCA 2021\)](#), 27-29 October 2021, Virtual Safranbolu, Turkey.
- Conference and Organization Chair, [The Fifth International Conference on Smart City Applications \(SCA 2020\)](#), 07-09 October 2020, Virtual Safranbolu, Turkey. [[Photos of Conference](#)]

- Conference and Organization Chair, GeoAdvances 2017 - [4th International Workshop on GeoInformation Science](#), 14-15 October 2017, Safranbolu, Turkey.
[[Photos](#)] [[Videos](#)]
- Conference and Organization Chair, [Turkish-German 3D Spatial Information Technologies Workshop](#), 13-14 December 2014, Safranbolu, Turkey.
[[Photos](#)]
- Co-Chair, [9th Annual International Conference on Geo-Spatial Knowledge and Intelligence \[GSKI 2021\]](#), December 17-19, 2021, Jiangsu, China.
- Co-Chair, [8th Annual International Conference on Geo-Spatial Knowledge and Intelligence \[GSKI 2020\]](#), December 18-19th, 2020, Xi'an, Shaanxi, China.
- Program Chair, International Committee Member, Geospatial Big Data and Smart Planet, 8-10 Dec 2019, Cyberjaya, Kuala Lumpur, Malaysia.
- Publications Chair, [The Fourth International Conference on Smart City Applications \(SCA 2019\)](#), 02-04 October 2019, Casablanca, Morocco.
[[Photos of Conference](#)] [[News Video from Moroccan Press](#)]
- Program Chair, 3rd International Workshop on Geospatial Big Data and Smart Planet (GBDSP), July 26 - 28, 2019, Ho Chi Minh City, Vietnam.
- Co-Chair, [7th Annual International Conference on Geo-Spatial Knowledge and Intelligence \[GSKI 2019\]](#), December 20-21st, 2019, Guangzhou, China.
- Co-Chair, GeoAdvances 2018 - 5th International Conference on GeoInformation Science, 10-11 October 2018, Casablanka, Morocco.
[[Photos](#)]
- Co-Chair, [6th Annual 2018 International Conference on Geo-Spatial Knowledge and Intelligence, \[GSKI2018\]](#), December 14-16, 2018, Wuhan, Hubei, China.
- Co-Chair, [5th Annual 2017 International Conference on Geo-Spatial Knowledge and Intelligence \[GSKI2017\]](#), December 8th -10th, 2017, Chiang Mai, Thailand.
- Program Committee Chair, 9th International Conference on Digital Image Processing (ICDIP 2017), 19-22 May 2017, Hong-Kong.
- Co-Chair, [4th Annual 2016 International Conference on Geo-Informatics in Resource Management & Sustainable Ecosystem \[GRMSE-2016\]](#), November 18-November 20, 2016, Hong Kong, China.
[[Photos](#)]
- Co-Chair, GeoAdvances 2016 - 3th International Workshop on GeoInformation Science, 16-17 October 2016, Istanbul.
- Program Committee Chair, 8th International Conference on Digital Image Processing (ICDIP 2016), 20-23 May 2016, Chengdu, China.
- Program Committee Chair, 7th International Conference on Digital Image Processing (ICDIP 2015), 9-10 April 2015, Los Angeles, USA.
[[Photos](#)]
- Program Committee Chair, 6th International Conference on Digital Image Processing (ICDIP 2014), 5-6 April 2014, Athens, Greece.
[[Photos](#)]
- Program Committee Chair, 5th International Conference on Digital Image Processing (ICDIP 2013), April 21-22, 2013, Beijing, China.
[[Photos](#)]
- Program Committee Chair, 4th Int'l Conference on Digital Image Processing (ICDIP 2012), Int'l Conf on Bioinformatics and Computational Biology (ICBCB 2012), Int'l Conf on System Engineering and Modeling (ICSEM 2012), April 2012, Kuala Lumpur, Malaysia.

Editorial Board and Committee Membership

Editorship of Journals

- In Editorial Board, [Engineering Science and Technology, an International Journal, JESTECH](#) (ISSN: 2215-0986)
- Associate Editor, [Jurnal Ilmiah Teknik Elektro Komputer dan Informatika - JITEKI Journal](#) (ISSN 2338-3070)
- In Editorial Advisory Board, [Sindh University Research Journal - SURJ - Science Series](#) (1813-1743)
- In Advisory Board, [International Journal of Management Information Systems and Computer Science](#) (e-ISSN 2618-5954)
- In Editorial Board, [International Journal of Digital Innovation in the Built Environment \(IJDIBE\)](#) (ISSN 2642-2263)
- In Editorial Board, [Turkish Journal of Remote Sensing and GIS](#) (e-ISSN 2717-7165)
- In Editorial Board, [International Journal of Built Environment Engineering Science and Technologies](#) (ISSN 2687-4164)
- In Editorial Board, [International Journal of Emerging Trends in Engineering Research](#) (ISSN: 2347-3983)

- In Editorial Board, International Journal of Multidisciplinary Studies and Innovative Technologies (ISSN 2602-488)
- In Editorial Board, Computer Science and Systems Biology Journal: An Open Access
- In Editorial Board, Information Management and Computer Science Journal (ISSN 2616-2961)
- In Editorial Board, International Journal of Geo-Spatial Knowledge and Intelligence (ISSN 2521-3482)
- In Editorial Board, Journal of Geodesy and Geoinformation (ISSN 2147-1339)
- In Editorial Board, International Journal of Strategic Engineering (ISSN 2572-4959)
- In Editorial Board, Geomatics Journal (Turkish) (ISSN 2564-6761)
- In Editorial Board, International Journal of 3-D Information Modeling (ISSN 2156-1710)
- Editor, Turkish Journal of Electrical Engineering and Computer Sciences (2015)
- In Editorial Board, International GeoInformatics Research and Development Journal (ISSN 0976-1241)
- In Editorial Board, American Journal of Geographic Information System (ISSN 2163-1131)
- In Editorial Board, Journal of Engineering Research and Technology (ISSN 2312-2307)
- In Editorial Board, Journal of Image and Graphics (ISSN: 2301-3699)

Committee Membership of Conferences

- In Scientific Committee, 7th 3D-GeoInformation Conference, 16-17 May 2012, Quebec, Canada
[[Photos](#)]
- In Scientific Committee, 8th 3D-GeoInformation Conference, 27-29 November 2013, Istanbul, Turkey
[[Photos](#)]
- Technical Committee Member, 10th International Conference on Software and Computer Applications, 23-26 February, 2021, Kuala Lumpur, Malaysia.
- Technical Committee Member, The 4th International Conference on Sustainable Development of Water and Environment, ICSDWE2021, Jan. 22-23, 2021, Bangkok, Thailand.
- Technical Committee Member, 4th International Conference on Frontiers of Image Processing, March 15-17, 2020, Amsterdam, The Netherlands.
- Scientific Committee Member, 15th International 3D Geoinformation Conference (3DGeoInfo'20), 08-22 September, London (Virtual Conf).
- International Technical Program Committee Member, International Conference on Computing, Networks and Internet of Things (CNIOT 2020), April 24-26, 2020 in Sanya, China.
- Technical Committee Member, The 4th International Conference on Communications and Future Internet (ICCFI 2020) July 17-19, 2020, Singapore.
- Technical Committee Member, The 3rd International Conference on Electronics, Communications and Control Engineering (ICECC 2020), April 8-10, 2020, Bali, Indonesia.
- Scientific Committee Member, 3rd International Conference on Advanced Technologies, Computer Engineering and Science (ICATCES 2020), 3-5 June 2020, Virtual Conference.
- Technical Committee Member, 2nd International Conference on Information Technology and Computer Communications 2020, August 12-14, 2020, Kuala Lumpur, Malaysia.
- Technical Committee Member, 3rd International Conference on Big Data and Education (ICBDE 2020), April 01-03, 2020. London, UK.
- Scientific Committee Member, 3rd International Conference on Computer Science and Software Engineering (CSSE 2020), May 22-24, 2020, Beijing, China.
- Technical Committee Member, 3rd International Conference on Smart Applications and Data Analysis for Smart Cyber-Physical Systems (SADASC'20), March 25-27, 2020, Marakesh, Morocco.
- Technical Committee Member, 3rd International Conference on Machine Learning and Machine Intelligence (MLMI 2020), September 18-20, 2020. Hangzhou, China.
- Technical Committee Member, 9th International Conference on Software and Computer Applications (ICSCA 2020). February 18-21, 2020. Langkawi, Malaysia.
- Scientific Committee Member, 10'uncu Türkiye Ulusal Fotogrametri ve Uzaktan Algılama Birliği (TUFUAB) Teknik Sempozyumu, 25-27 Nisan 2019, Aksaray, Türkiye.

- Scientific Committee Member, 14th International 3D Geoinformation Conference (3DGeoInfo'19), 24-27 September, Singapore.
- Scientific Committee Member, International Symposium on Applied Geoinformatics ISAG-2019, 7-9 Nov 2019, Istanbul, Turkey.
- Scientific Committee Member, 2'inci Uluslararası Türk Dünyası Mühendislik ve Fen Bilimleri Kongresi, 07 Kasım - 10 Nov 2019, Antalya, Türkiye.
- International Scientific Committee Member, 4th International Conference on Automation, Mechanical and Electrical Engineering (AMEE2019), October 27-28, 2019, Xiamen, China.
- International Technical Committee Member, International Conference on Information Technology, Electrical and Electronic Engineering, January 20-21, 2019, Sanya, China.
- Scientific Committee Member, 17. Türkiye Harita Bilimsel ve Teknik Kurultayı, 25-27 Nisan 2019, Ankara, Türkiye.
- Scientific Committee Member, PhilGeos X GeoAdvances Conference 2019, November 14-15, 2019, Manila, Philippines.
- Scientific Committee Member, Eurasian BIM Forum 2019, 31 May 2019, Istanbul, Turkey.
- Scientific Committee Member, 4th International Conference on Smart Data and Smart Cities, 01-03 October 2019, Kuala Lumpur, Malaysia.
- Scientific Committee Member, Geospatial Kuala Lumpur 2019, International Conference Geomatics & Geospatial Technology 2019 - GGT19, 01-03 October 2019, Kuala Lumpur, Malaysia.
- Technical Committee Member, 2nd International Conference on Machine Learning and Machine Intelligence (MLMI 2019), September 18–20, 2019. Jakarta, Indonesia.
- International Committee Member, Geospatial Big Data and Smart Planet, 8-10 Dec 2019, Cyberjaya, Kuala Lumpur, Malaysia.
- Scientific Committee Member, International Science and Engineering Applications Symposium on Hazards 2019 (ISESH 2019), 25-27 Sept 19, Karabük, Türkiye.
- Organization and Scientific Committee Member, 2nd International Conference on Advanced Technologies, Computer Engineering and Science (ICATCES 2019), 26-28 April 2019, Antalya, Türkiye.
- Scientific Committee Member, ASIP 2019 Asia Symposium on Image Processing ITCC 2019 August 16-18, 2019, Singapore.
- Technical Committee Member, International Conference on Information Technology and Computer Communications (ITCC 2019), August 16-18, 2019, Singapore.
- Scientific Committee Member, 2nd International Conference on Big Data Technologies ICBDT 2019, August 28-30, 2019, Jinan, China.
- Technical Program Committee Member, International Conference on Intelligent Computing & Smart Communication, ICSC2019, 20-21 April 2019, THDC-IHET, Tehri, India.
- Technical Program Committee Member, International Conference on Advanced Computer Theory and Engineering, September 18–20, 2019. Jakarta, Indonesia.
- Program Committee Member, 4th International Conference on Intelligent Information Processing (ICIIP 2019), December 08-10, 2019, Kuala Lumpur, Malaysia.
- Scientific Committee Member, Asia Pacific Information Technology Conference, January 25-27, 2019 Jeju Island, South Korea.
- Technical Committee Member, International Conference on Micro-Electronics and Telecommunication Engineering (ICMETE-2019), 30 & 31, August, 2019, Ghaziabad, India.
- Scientific Committee Member, 8th International Conference on Software and Computer Applications (ICSCA 2019), February 19-22, 2019, Penang, Malaysia.
- Scientific Committee Member, 4th International Symposium on Railway System Engineering, 10-12 October 2018, Karabük, Türkiye.
- Scientific Committee Member, 2018 International Conference on Computer, Communications and Mechatronics Engineering (CCME2018), December 22-23, 2018, Shanghai, China.
- Scientific Committee Member, ICVIP International Conference on Video and Image Processing, December 29-31, 2018, Hong Kong.
- ISPRS Scientific Committee Member, ISPRS Technical Commission IV Symposium 2018, October 1 - 5, 2018, Delft, The Netherlands.
- Advisory Committee Member, International Conference on Smart Systems and Inventive Technology (ICSSIT 2018), December 13- 14, 2018, Tirunelveli, India.
- Technical Committee Member, 2018 World Symposium Geology and Earth Sciences (WSGES), December 29-30, 2018 in Hong Kong.

- Scientific Committee Member, Geomatics & Geospatial Technology Conference 2018 (GGT-18), 3 - 5 September 2018, Kuala Lumpur, Malaysia.
- Organization and Scientific Committee Member, ICATCES 2018, International Conference on Advanced Technologies, Computer Engineering and Science, 11-13 May 2018, Karabük, Turkey.
- Technical Committee Member, ICACTE 2018, The 11th International Conference on Advanced Computer Theory and Engineering, September 28–30, 2018, Hanoi, Vietnam.
- Technical Committee Member, 7th International Conference on Software and Computer Applications (ICSCA 2018), Feb 8-10, 2018, Kuantan, Malaysia.
- Scientific Committee Member, International Conference on Next Gen Information Systems and Technologies, 19th and 20th July 2018, Kerala, India.
- Scientific Committee Member, International Conference on Applied Mathematics, Algorithms and Modelling (AMAM2018), February 7-8, 2018, Wuhan, China.
- Program Committee Member, 3rd International Conference on Intelligent Information Processing (ICIIP), May 26-27, 2018, Guilin, China.
- Scientific Committee Member, 3rd International Conference on Smart Data and Smart Cities October 4–5, 2018, Delft, Netherlands.
- Organization and Scientific Committee Member, Workshop on Interdisciplinary Medical Research (DATA 2017), 2-3 December 2017, Karabük, Turkey.
- Technical Committee Member, 2nd International Conference on Image, Vision and Computing (ICIVC 2017), June 2-4, 2017, Chengdu, China.
- Technical Program Committee Member, SAI Computing Conference 2017, 18-20 July 2017, London, United Kingdom.
- Scientific Committee Member, 12th International 3D Geoinformation Conference (3DGeoInfo'17), 25-27 October, 2017, Melbourne, Australia.
- Scientific Committee Member, International Conference on Geomatics & Geospatial Technology GGT-2017, 4 - 5 October 2017, Kuala Lumpur, Malaysia.
- Scientific Committee Member, 2nd IEEE International Conference on Computational Intelligence and Applications (ICCI 2017), September 8-11, 2017, North China University of Technology, Beijing, China.
- Scientific Committee Member, TMMOB Uluslararası Coğrafi Bilgi Sistemleri Kongresi 2017, 15-18 Kasım 2017, Adana, Türkiye.
- Scientific Committee Member, International Symposium on Multidisciplinary Studies and Innovative Technologies, ISMSIT2017, 02 - 04 November 2017, Tokat, Türkiye.
- Technical Program Committee Member, International Conference on Information Technology - ICIT 2017, December 27-29, 2017, Nanyang Technological University, Singapore.
- Technical Program Committee Member, 5th Annual 2017 International Conference on Geo-Spatial Knowledge and Intelligence [GSKI2017], December 8th -10th, 2017, Chiang Mai, Thailand.
- International Technical Committee Member, ICCFI 2017 - International Conference on Communications and Future Internet, August 10-13, 2017, Jeju Island, South Korea.
- Program Committee Member, 6th International Conference on Computing, Engineering and Information Technology (ICCEIT 2017), March 4, 2017, The Vijay Park, Chennai, India.
- Technical Program Committee Member, International Conference on Frontiers of Image Processing (ICFIP 2017), March 3-5, 2017, Katmandu, Nepal.
- Member of Technical Committee, International Conference on Intelligent Information Processing ICIIP 2017, July 17-18, 2017, Bangkok, Thailand.
- Scientific Committee Member, Euro-Mediterranean Conference for Environmental Integration (EMCEI-1), Tunisia 2017, 20-25 November; Sousse, Tunisia.
- Scientific Committee Member, FTC 2017 - Future Technologies Conference 2017, 29-30 November 2017, Vancouver, BC, Canada.
- Scientific Committee Member, International Conference on Micro-Electronics and Telecommunication Engineering ICMETE 2016, 22-23 September 2016, Ghaziabad, Uttarpradesh, India.
- Scientific Committee Member, International Symposium on Natural Hazards and Hazard Management 2016 (Uluslararası Doğal Afetler ve Afet Yönetimi Sempozyumu 2016 - DAAYS'16), 02-04 March 2016, Karabük, Türkiye.
- Scientific Committee Member, 6th Remote Sensing and GIS Symposium (UZAL-CBS '2016), 6'ncı Uzaktan Algılama Coğrafi Bilgi Sistemleri Sempozyumu, 05-07 Oct 2016, Adana., Türkiye.
- Scientific Committee Member, 11th International 3D Geoinformation Conference (3DGeoInfo'16), 20-21 October, 2016, Athens, Greece.
- Scientific Committee Member, International Conference on Geomatics & Geospatial Technology GGT-2016, 3 - 5 October 2016, Kuala Lumpur, Malaysia.

- Program Committee Member, 4th Annual 2016 International Conference on Geo-Informatics in Resource Management & Sustainable Ecosystem [GRMSE-2016], November 18-November 20, 2016, Hong Kong, China.
- Scientific Committee Member, ISITES 2016, 4th International Symposium on Innovative Technologies in Engineering And Science, 3-5 Nov 2016, Antalya, Turkey.
- Technical Program Committee Member, International Conference on Architectural Engineering and Civil Engineering (AECE2016) December 9-11, 2016, Shanghai, China.
- International Program Committee member, Sixth International Conference on Digital Information Processing and Communications (ICDIPC), April 21-23, 2016, Beirut, Lebanon.
- Technical Committee Member, 10th IEEE ICOSST-2016 - International Conference on Open Source Systems & Technologies (ICOSST), 15-17 December 2016, Lahore, Pakistan.
- Technical Committee Member, 8th Knowledge Management International Conference (KMICe) 29-30 August 2016, Chiang Mai, Thailand.
- Scientific Committee Member, GeoAdvances 2016 - 3th International Workshop on GeoInformation Science, 16-17 October 2016, Istanbul
- Scientific Committee Member, 23th Congress of ISPRS (International Society for Photogrammetry and Remote Sensing), 12th July - 19th July 2016, Prague.
- Scientific Committee Member, SAI Computing Conference 2016, 13-15 July 2016, London, United Kingdom.
- Scientific Committee Member, SAI Intelligent Systems Conference 2016, September 21-22, 2016, London, United Kingdom.
- Scientific Committee Member, SAI Future Technologies Conference 2016, 6-7 December 2016, San Francisco, United States.
- International Scientific Committee Member, International Conference on Systems Science and Management Engineering (SSME2015), July 26-27, 2015, Phuket, Thailand.
- Organizing Committee Member, The 2015 International Conference on Geology and Seismology, July 16-20, 2015, Zakynthos Island, Greece.
- Scientific Committee Member, 4th International Conference on Circuits, Systems, Communications, Computers And Applications, April 23-25, 2015, Kuala Lumpur, Malaysia.
- In Organising Committee, Fifth International Conference on Computing and Informatics 2015 (ICOCI 2015), 11-13 August 2015, Istanbul, Turkey.
- In Scientific Committee, Joint International Geoinformation Conference 2015 (ISPRS WG II/2 Workshop, 10th 3DGeoInfo Conf, Int'l Conf of Geomatic and Geospatial Technology, GeoAdvances), 27-30 October 2015 Kuala-Lumpur, Malaysia.
- Member of International Scientific Committee, The 5th International Conference on Earth Observation for Global Changes (EOGC 2015) & The 7th International Conference on Geo-information Technologies for Natural Disaster Management (GiT4NDM 2015), 8-10 December 2015, Al-Ain, UAE.
- 8th National Photogrammetry and Remote Sensing Union (TUFUAB) Symposium, 21-23 May, 2015, Konya, Turkey.
- Scientific Committee Member, 7th International Conference on Digital Image Processing (ICDIP 2015), 9-10 April 2015, Los Angeles, USA.
- Scientific Committee Member, SAI Intelligent Systems Conference 2015 (IntelliSys), 10-11 November 2015, London, United Kingdom.
- Scientific Committee Member, Science and Information (SAI) Conference 2015, 28-30 July 2015, London, United Kingdom.
- Program Committee Member, ESG 2014 - The 2014 International Conference on Environmental Science And Geoscience, 15-17, March 2014, Venice, Italy.
- International Program Committee Member, The 2014 International Conference on Environmental Science and Geoscience, March 15-17, 2014, Venice, Italy.
- In Organising and Scientific Committee, 2nd International Symposium on Innovative Technologies for Engineering and Science (ISITES), 18 - 20 June 2014, Karabük, Turkey
- Scientific Committee Member, 22nd Signal Processing and Communications Applications Conference (SIU 2014), Karadeniz Technical University, Trabzon, Turkey, April 23-25, 2014.
- Scientific Committee Member, Science and Information Conference 2014, August 27-29, 2014, London, U.K.
- Organizing Committee Member, 13th Mathematics Symposium, 15 – 17 May 2014, Karabük Üniversitesi, Karabük, Turkey
- Scientific Committee Member, 6th International Conference on Digital Image Processing (ICDIP 2014), 5-6 April 2014, Athens, Greece.

- Scientific Committee Member, 13th International Conference on Applications of Computer Engineering (ACE '14), October 30 - November 1, 2014, Lisbon, Portugal.
- Scientific Committee Member, 9th International 3D Geoinformation Conference (3DGeoInfo'14), 11-13 November 2014, Dubai, United Arab Emirates.
- Advisory Committee Member, TMMOB - 5'inci Coğrafi Bilgi Sistemleri Kongresi, 11 - 13 Kasım 2013, Ankara.
- In Program and Scientific Committee, International Symposium & Exhibition on Geoinformation (ISG) 2013, 24-25 September 2013, Kuala Lumpur, Malaysia.
- In Technical Committee, 6th International Conference on Environmental and Computer Science (ICECS) 2013, September 14-15, 2013, New Delhi, India.
- In Scientific Board, 14th Turkish Scientific and Technical Mapping Symposium, 14 - 17 May 2013, Ankara, Turkey.
- Scientific Committee Member, 4th European Conference of Civil Engineering (ECCIE '13), October 8-10, 2013, Antalya, Turkey.
- Scientific Committee Member, 8th 3D-GeoInformation Conference, 27-29 November 2013, Istanbul, Turkey
- Scientific Committee Member, ELECO 2013, Electrical, Electronical and Computer Engineering Symposium, 28 Kasım - 30 Aralık 2013, Bursa
- Scientific Committee Member, 7th International Conference on Computer Engineering and Applications (CEA '13), January 9-11, 2013, Milan, Italy
- Scientific Committee Member, The 2013 World Conference on Information Systems and Technologies (WorldCIST'13), Mar. 27-30, 2013, Algarve, Portugal
- In International Board of Advisory, 6th International Symposium on Advances in Science and Technology, 24 - 25 March 2012, Kuala Lumpur, Malaysia.
- In International Program Committee, International Workshop on Geoinformation Advances 2012, 7-8 November 2012, Johor, Malaysia
- In Scientific Board (Session Coordinator), International Iron & Steel Symposium 2012, 02 - 04 April 2012, Karabük, Turkey.
- In International Program Committee, 13th WSEAS International Conference on FUZZY SYSTEMS (FS '12), June 13-15, 2012, Iasi, Romania
- Program Committee Co-Chair of Joint Conferences: ICEBS, ICCEB, ICOGE 2012, Phnom Penh, Cambodia. September 28-29, 2012
- International Program Committee Member, 5th WSEAS World Congress on Applied Computing Conference (ACC'12), University of Algarve, Faro, Portugal, May 2-4, 2012
- International Program Committee Member, 3rd International Conference on Energy, Environment, Devices, Systems, Communications, Computers (INEEE '12), Rovaniemi, Finland, April 18-20, 2012
- Scientific Committee Member, 5th International Conference on Landscape Architecture (LA '12), May 2-4, 2012, Faro, Portugal
- Scientific Committee Member, 11th WSEAS International Conference on Data Networks, Communications, Computers (DNCOCO '12), Sliema, Malta, September 7-9, 2012
- Scientific Committee Member, 5th WSEAS International Conference on Environmental and Geological Science and Engineering (EG '12), Vienna, Austria, November 10-12, 2012
- Scientific Committee Member, 11th International Conference on Applied Computer and Applied Computational Science (ACACOS'12), Rovaniemi, Finland, April 18-20, 2012
- Scientific Committee Member, 9th WSEAS International Conference on Engineering Education (EDUCATION'12), Cambridge, UK, February 22-24, 2012
- Scientific Committee Member, 3rd International Conference on Engineering and Meta-Engineering (ICEME 2012), March 25-28, 2012, Orlando, Florida, USA
- Scientific Committee Member, ELECO 2012, Electrical, Electronical and Computer Engineering Symposium, 29 Kasım - 01 Aralık 2012, Bursa
- Scientific Committee Member, 22nd International Society for Photogrammetry & Remote Sensing Congress (ISPRS 2012), 25 August - 1 September 2012, Melbourne, Australia
- Scientific Committee Member, 7th International 3D-Geoinformation Conference (3DGeoInfo'12), 16-17 May 2012, Quebec, Canada
- In Scientific Board, 13th Turkish Scientific and Technical Mapping Symposium, 18 - 22 April 2011, Ankara, Turkey.
- In International Board of Advisory, 5th International Symposium on Advances in Science and Technology, 12 - 17 May 2011, Mashhad, Iran

- Scientific Committee Member, International GIS Workshop 2011, 18-21 July 2011, Las Vegas, Nevada, USA
- Scientific Committee Member, ELECO'2011, 7th International Conference on Electrical and Electronics Engineering, 1-4 December 2011, Bursa, Turkey
- Scientific Committee Member, Cumhuriyet University Geomatics Engineering Department Opening Symposium, 17-19 November 2011, Sivas, Turkey.
- Scientific Committee Member, ELECO'2010, Electrical, Electronical and Computer Engineering Symposium, 2-5 Dec 2010, Bursa, Turkey
- Member of Program Committee, The 2010 Int'l Conference on Modeling, Simulation and Visualization Methods, 12-15 July 2010, Las Vegas, Nevada, USA

Reviewing Activities

Project Refereeing and Monitoring

- TUBITAK* TEYDEB Projects
- TUBITAK* ARDEB Projects (1001, 1002, 3501, 2534)
- TUBITAK* BIDEB Projects/Supports (2214A, 2216, 2219, 2221, 2232, 2242)
- Ministry of Science, Industry and Technology; R&D Centers Applications
- Research Projects in various universities of Turkey
- Member of Evaluation Committee, Project Exhibition organized by KBÜ Tech Transferring Office & Industrial Agencies, 8 May 2017, Karabük, Türkiye.

*The Scientific and Technological Research Council of Turkey

Journal Paper Reviewing

- Journal of Himalayan Earth Sciences
- Annals of Medical Research
- Arabian Journal of Geosciences
- International Journal Of Computer Science and Emerging Technologies (IJCET)
- Technological Applied Sciences
- Geomatik
- Afyon Kocatepe University Journal of Science and Engineering
- International Journal of Engineering and Geosciences
- Düzce University Journal of Science and Technology
- Journal of Strategic Engineering (IJoSE)
- Technological Applied Sciences
- Journal Tehnički Vjesnik – Technical Gazette
- SpringerPlus
- International Journal of 3-D Information Modeling
- International Journal of Traffic and Transportation Engineering
- Journal of the Faculty of Engineering and Architecture of Gazi University
- Computers and Electronics in Agriculture
- Geoenvironmental Disasters
- Sensors Journal
- Turkish Journal of Electrical Engineering and Computer Sciences
- Journal of Computer Engineering Research
- International Journal of Environmental Research
- International Geoinformatics Research and Development Journal
- International Journal of Environmental Science and Development
- American Journal of Geographic Information System
- Journal of Earth Science and Engineering
- Mehran University Research Journal of Engineering & Technology
- International Journal of Environmental Monitoring and Assessment
- International Journal of Applied Earth Observation and Geoinformation
- Journal of Geomatics, Natural Hazards and Risks
- Sindh University Research Journal (Science Series)
- Developments in Multidimensional Spatial Data Models (Book, Springer 2013)
- Geoinformation for Informed Decisions (Book, Springer 2013)
- Advances in 3D Geospatial Data Modelling (Book, Springer 2016)

- HKM, Geodesy, Geo-Information, and Land Management Journal (Turkish)
- Mapping Technologies Journal (Turkish)
- JESTECH - Journal of Engineering Science and Technology
- Selcuk University Journal of Engineering, Science and Technology
- Academic Platform Engineering and Science Journal - APJES

Courses Taught

Undergraduate

- GPS/Location Based Systems (2021-22Spring, 22-23S, 23-24S)
- Introduction to Computer Engineering (2013-14Fall, 14-15F, 15-16F, 16-17F, 17-18F, 18-19F, 19-20F, 20-21F, 21-22F, 22-23F, 23-24F)
- Internet Based Programming (2010-11Spring, 11-12S, 12-13S, 13-14S, 14-15S, 15-16S, 16-17S, 17-18S, 18-19S, 19-20S, 20-21S)
- Internet Based Programming - Distance Education (10-11S, 11-12S, 12-13S, 13-14S, 14-15S)
- Computer Technologies (09-10F/S, 10-11F)
- Algorithm Design (09-10F)
- Senior Project I (12-13F, 13-14F, 14-15F, 15-16F, 16-17F, 17-18F, 18-19F, 19-20F, 20-21F, 21-22F, 22-23F, 23-24F)
- Senior Project II (12-13S, 13-14S, 14-15S, 15-16S, 16-17S, 17-18S, 18-19S, 19-20S, 20-21S, 21-22S, 22-23S, 23-24S)

Graduate (MSc)

- Graph Theory and Algorithms (2010-11Fall, 11-12F, 12-13F, 13-14F, 14-15F, 18-19F, 19-20F, 20-21F, 21-22F, 22-23F, 23-24F)
- Graph Theory and Algorithms - Distance Education (09-10F/S, 10-11F, 11-12F, 12-13F, 13-14F, 15-16F, 16-17F, 18-19F, 20-21F, 21-22F)
- GIS and Applications (09-10S/F, 10-11S)
- GIS and Applications - Distance Education (10-11S)

Graduate (PhD)

- GIS in Computing Perspective (2010-11Fall, 11-12F, 12-13S, 13-14S, 14-15S, 15-16S, 16-17S, 17-18S, 18-19S, 19-20S, 20-21S, 21-22S, 22-23S, 23-24S)
- 3D GIS (09-10S, 10-11S, 11-12S)

Computer Skills

- Software: ArcGIS, ArcView, Netcad, Eghas, Access, MS Office, Frontpage, Dreamweaver
- Languages: Visual Basic, Basic languages, ArcView Avenue, ASP, SQL, HTML
- Operating Sysytems: Windows, DOS

Developed Softwares (Selected)

- 3D Surface Modeller ([Info](#) / [Download](#))
- Dijkstra Algorithm Interactive Training Software ([Info](#) / [Download](#))
- Shortest Path Finder for 3D Urban Entities ([Info](#))
- Automatically Spatial based Oficial Document Preparatory ([Info](#) / [Try On-line](#))
- SGIOK ([Info](#))
- GPSVek ([Info](#))
- DXF Web Viewer
- Computer Graphics Applications ([Downloads](#))
- Converter I ([Info](#))
- Converter II ([Presentation](#) / [Download](#))
- IRKGeo ([Info](#))
- Many Other Big or Small Scaled (professional or not) Programs

Certificates

- "Certificate of Trainer of Expertises for Job Safety", 29 April 2010, Republic of Turkey, Ministry of Labor and Social Security, General Directorate of Occupational Health And Safety
- "Technology of Video-Conference Systems", 05-06 Nov 2009, Anadolu University, Eskisehir
- "Introduction of ArcGIS 9.0 Technology", 25-29 April 2005, [ESRI Turkey](#)

- "Developing Web Based GIS Applications with ArcIMS 9.0", 02-06 May 2005, [ESRI Turkey](#)
- "Programming Applications on ArcGIS Engine (ArcObjects) Platform", 09-13 May 2005, [ESRI Turkey](#)
- General Introduction Object Oriented Technology and UML, 22-23 Dec 2003, [Bildem Software Systems](#)
- Object Oriented Analysis and Design with UML, 29-30-31 Dec 2003, [Bildem Software Systems](#)
- Workshop; [Advanced ArcView GIS Applications in Natural Resources](#), Instructor; Dr. [Michael Wing](#), College of Forestry Outreach Education, Oregon State University, USA, April 2002
- Geoscience Applications of GIS, Geological Society of America Workshop, 2002 Cordilleran section meeting, Instructors; Dr. [Derek Ryter](#) and Dr. [Michael Wing](#), Oregon State University, USA, May 2002
- Certificate of Intergraph Geomedia 3.0, [Akser Computer](#), 2000
- Visual Basic Language Certificate, Marmara University, 1999
- Pedagogical Formation Certificate, Selcuk University, School of Education, 1996
- Basic Language Certificate, Kar-Bil Computer Education Center, Karabuk, Turkey, 1989

Visited Countries

For conferences, projects, and others;

Italy ([2007](#), 2015, 2017), Spain ([2007](#), 2017), [Canada](#), [Belgium](#), [The Netherlands](#), [Germany](#), USA ([2002](#), [2012](#), [2015](#)), [Pakistan](#), Iran, China ([2013](#), [2018](#)), Singapore ([2010](#), [2011](#), 2015, 2017, 2018), [Russia](#), Malaysia ([2006](#), [2010](#), [2011](#), [2014](#), [2015](#), 2017, 2018, 2019, 2022, 2024), [Lithuania](#), [Indonesia](#) (2014, 2022), [United Arab Emirates](#), [Greece](#), Saudia Arabia, Macedonia, Bosnia Herzegovina (2016, 2022), Serbia, Albania, Kosovo, Montenegro, [Hong Kong](#), [Romania](#), [Australia](#), France, [Hungary](#), Jordan, South Korea, [Morocco](#), Tunisia, Philippines, Iraq, Bulgaria, Oman, Uzbekistan, Kyrgyzstan, Senegal.

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Hobbies

Photography ([Samples](#))

- Karabuk University Fine Art and Design Faculty, "İsmail Rakıp Karaş - Evrim Çağlayan - Raşit Esen" mixed exhibition, November 2018
[[Photos](#)]
- Second Degree in the Photography Contest organized by the 13th Turkish Scientific and Technical Mapping Symposium, Turkey, 22 April 2011
[[Photos from the Award Ceremony](#)]
- Mixed exhibition of Photography Art Group, Gebze Technical University, Sept. 2001
- Mixed exhibition of Youth Photographers Group, Konya, 1996
- Honorable Mention in the Photography Contest organized by the Governorship of Konya, Turkey, 1993

Caricature ([Samples](#))

- Third degree in the Caricature Contest organized by the Geodesy Commission of Turkey (Youth Activities: Drawings of the Mapper), 14 Nov 2004
[[Photo from the Award Ceremony](#)]

Web Design

- Web Site of Department of Geomatics Engineering Dept in Gebze Technical University, 2002
- [ASP Based Department Information System](#)
- Gebze Technical University Turkish Classical Music Chorus Web Site, 2004
- Art of the Cartoon Web Site, 2000

