

Assoc. Prof. DENİZ CAN ALİS

Personal Information

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Biography

Dr. Deniz Alis was born in Sisli, Istanbul, in 1989. He finished high school in Sabanci Anatolian high school and ranked 1th in the national university election examination in 2007. Dr. Alis started Cerrahpasa Medical faculty (English Division) in 2007 and graduated as a practitioner physician from Cerrahpasa Medical Faculty in 2013. He placed in the top ten attendees in the national medical doctorate examination in the same year and entered Cerrahpasa Medical Faculty, Radiology Department. He finished his training in 2018 with a doctor's degree. He completed his government service obligation in Mehmet Akif Ersoy Cardiovascular research and training hospital, where Dr. Alis primarily engaged to high-end cardiovascular applications of radiology such as cardiac magnetic resonance imaging and coronary computed tomography in both clinical and academic environment. He started to work at Acibadem Mehmet Ali Aydinlar University, Maslak Acibadem Hospital, in April 2020 as an assistant professor in radiology. His primary focus in the Acibadem Healthcare group was contributing to the groups already very high healthcare, providing standards, particularly with his expertise in cardiovascular imaging and artificial intelligence.

Dr. Alis is the co-author of more than 50 papers, including several articles on machine learning for medical imaging, published in international journals. At the beginning of 2019, he started to focus on a popular area in his field, artificial intelligence applications for medical imaging, and with his engineer friends Mert Yergin, Mert Celenk, and Erdem Yaman lay the foundations of Hevi AI, which is a start-up company put its emphasis on providing artificial intelligence solutions for medical imaging problems. Hevi ai officially founded in January 2020 as a member of the Acibadem incubator program. Hevi ai won TUBITAK 1512 grant and elected for Nvidia's inception, Bayer G4A, and Turk Telekom Pilot program in 2020. They are currently working on their cutting-edge solution for stroke imaging, automated detection of ischemic and hemorrhagic stroke on brain imaging.

Education Information

Expertise In Medicine, İstanbul University-Cerrahpaşa, Cerrahpasa Faculty Of Medicine, Department Of Internal Medicine, Turkey 2013 - 2020

Postgraduate, İstanbul University-Cerrahpaşa, Cerrahpasa Faculty Of Medicine, Department Of Basic Medical Sciences, Turkey 2007 - 2013

Research Areas

Medicine, Health Sciences

Academic Titles / Tasks

Lecturer PhD, Acibadem Mehmet Ali Aydinlar University, School of Medicine, Department of Medical Sciences, 2020 - Continues

Research Assistant, Istanbul University, 2013 - 2017

Articles Published in Journals That Entered SCI, SSCI and AHCI Indexes

- I. **IS NEUTROPHILE TO LYMPHOCYTE RATIO A PREDICTOR OF GLEASON SCORE UPGRADING ACCORDING TO RISK CLASSIFICATIONS IN PATIENTS WITH PROSTATE CANCER**
Karadag S., Eksi M., Ozdemir O., Akkas F., Arikan Y., Ozlu D. N. , Colakoglu Y., ALİS D. C. , Sahin S., Tugcu V.
ARCHIVOS ESPANOLES DE UROLOGIA, vol.74, no.6, pp.599-605, 2021 (Journal Indexed in SCI)
- II. **Does Employing a Flowchart Improve the Diagnostic Performance of Cardiac Magnetic Resonance Imaging in Left Ventricular Noncompaction?**
ALİS D. C. , Bagcilar O., Asmakutlu O., Topel C., BAĞCILAR Y. D. , Sahin A., Gurbak I., KARAARSLAN E.
ACTA CARDIOLOGICA SINICA, vol.37, no.2, pp.166-176, 2021 (Journal Indexed in SCI)
- III. **Diagnostic value of left atrial strain in pediatric hypertrophic cardiomyopathy with normal maximum left atrial volume index: preliminary cardiac magnetic resonance study.**
Alis D. C. , Asmakutlu O., Topel C., Karaarslan E.
Pediatric radiology, 2021 (Journal Indexed in SCI Expanded)
- IV. **Patients with ACL graft deficiency showed a higher frequency of knee osteoarthritis compared with patients with intact ACL graft in the medium term**
Asmakutlu O., Alis D. C. , Topel C., Bankaoglu M.
SKELETAL RADIOLOGY, vol.50, no.1, pp.137-148, 2021 (Journal Indexed in SCI)
- V. **A new perspective on imaging of olfactory dysfunction: Does size matter?**
Yildirim D., Altundag A., Sanli D. E. T. , Bakir A., Eryurekli A., Alis D. C. , Kandemirli S. G.
EUROPEAN JOURNAL OF RADIOLOGY, vol.132, 2020 (Journal Indexed in SCI)
- VI. **The influence of cardiac motion on radiomics features: radiomics features of non-enhanced CMR cine images greatly vary through the cardiac cycle**
Alis D. C. , Yergin M., Asmakutlu O., Topel C., KARAARSLAN E.
EUROPEAN RADIOLOGY, 2020 (Journal Indexed in SCI)
- VII. **Late gadolinium enhancement on CMRI in patients with LV noncompaction: An overestimated phenomenon?**
Asmakutlu O., Alis D. C. , Topel C., Sahin A.
CLINICAL IMAGING, vol.66, pp.121-126, 2020 (Journal Indexed in SCI)
- VIII. **The diagnostic value of quantitative texture analysis of conventional MRI sequences using artificial neural networks in grading gliomas**
Alis D. C. , Bagcilar O., Senli Y. D. , İŞLER C., Yergin M., Kocer N., Islak C., Kizilkilic O.
CLINICAL RADIOLOGY, vol.75, no.5, pp.351-357, 2020 (Journal Indexed in SCI)
- IX. **Clinical and radiological findings of a rare case: reversible Parkinsonism in cerebral venous sinus thrombosis**
Alis D. C. , Alis C., Yazici A. D. E. , Akdeniz Y. S. , APAYDIN H.
ACTA NEUROLOGICA BELGICA, vol.120, no.2, pp.491-493, 2020 (Journal Indexed in SCI)
- X. **Assessment of ventricular tachyarrhythmia in patients with hypertrophic cardiomyopathy with machine learning-based texture analysis of late gadolinium enhancement cardiac MRI**
Alis D. C. , Guler A., Yergin M., Asmakutlu O.
DIAGNOSTIC AND INTERVENTIONAL IMAGING, vol.101, no.3, pp.137-146, 2020 (Journal Indexed in SCI)
- XI. **Machine learning-based quantitative texture analysis of conventional MRI combined with ADC maps for assessment of IDH1 mutation in high-grade gliomas**
Alis D. C. , Bagcilar O., Senli Y. D. , Yergin M., İŞLER C., Kocer N., Islak C., Kizilkilic O.
JAPANESE JOURNAL OF RADIOLOGY, vol.38, no.2, pp.135-143, 2020 (Journal Indexed in SCI)
- XII. **Diagnostic Accuracy of Ultrasound for the Evaluation of Lateral Compartment Lymph Nodes in**

Papillary Thyroid Carcinoma

Colakoglu B., Alis D. C. , Seymen H.

CURRENT MEDICAL IMAGING, vol.16, no.4, pp.459-465, 2020 (Journal Indexed in SCI)

- XIII. **Superb Microvascular Imaging Compared With Power Doppler Ultrasound in Assessing Synovitis of the Knee in Juvenile Idiopathic Arthritis A Preliminary Study**
Alis D. C. , Erol B. C. , Akbas S., BARUT K., KASAPÇOPUR Ö., ADALETLİ İ.
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- XIV. **Is there any association between jugular venous reflux and nonpulsatile subjective tinnitus? A preliminary study of four-dimensional magnetic resonance angiography**
Yildirim D., Alis D. C. , Turkmen S., Bakir A., Temirbekov D., Samanci C., Sirin A., Ustabasioglu F.
NIGERIAN JOURNAL OF CLINICAL PRACTICE, vol.22, no.10, pp.1430-1434, 2019 (Journal Indexed in SCI)
- XV. **Diagnostic Value of Machine Learning-Based Quantitative Texture Analysis in Differentiating Benign and Malignant Thyroid Nodules**
Colakoglu B., Alis D. C. , Yergin M.
JOURNAL OF ONCOLOGY, vol.2019, 2019 (Journal Indexed in SCI)
- XVI. **Prognostic value of ADC measurements in predicting overall survival in patients undergoing Y-90 radioembolization for colorectal cancer liver metastases**
Alis D. C. , Durmaz E. S. M. , GÜLŞEN F., Bas A., Kabasakal L., SAĞER M. S. , NUMAN F.
CLINICAL IMAGING, vol.57, pp.124-130, 2019 (Journal Indexed in SCI)
- XVII. **Apparent diffusion coefficient characteristics of parenchymal neuro-Behcet's disease**
Alis D. C. , Alis C., Tutuncu M., Kocer N., Islak C., Kizilkilic O.
INTERNATIONAL JOURNAL OF RHEUMATIC DISEASES, vol.22, no.8, pp.1452-1458, 2019 (Journal Indexed in SCI)
- XVIII. **Evaluation of lumbar multifidus muscle in patients with lumbar disc herniation: are complex quantitative MRI measurements needed?**
Colakoglu B., Alis D. C.
JOURNAL OF INTERNATIONAL MEDICAL RESEARCH, vol.47, no.8, pp.3590-3600, 2019 (Journal Indexed in SCI)
- XIX. **Prediction of recurrence in non-muscle invasive bladder cancer patients. Do patient characteristics matter?**
Ucpinar B., Erbin A., Ayranci A., Caglar U., Alis D. C. , Basal S., Sarilar O., Akbulut M. F.
JOURNAL OF BUON, vol.24, no.4, pp.1659-1665, 2019 (Journal Indexed in SCI)
- XX. **Shear Wave Elastography of the Lumbar Multifidus Muscle in Patients With Unilateral Lumbar Disk Herniation**
Alis D. C. , Durmaz E. S. M. , Alis C., Erol B. C. , Okur B., Kizilkilic O., Mihmanli I.
JOURNAL OF ULTRASOUND IN MEDICINE, vol.38, no.7, pp.1695-1703, 2019 (Journal Indexed in SCI)
- XXI. **A comparative study of shear wave elastography in the evaluation of undescended and retractile testes in a pediatric population**
Turna O., Alis D. C.
JOURNAL OF MEDICAL ULTRASONICS, vol.46, no.2, pp.231-237, 2019 (Journal Indexed in SCI)
- XXII. **Shear Wave Elastography in the Evaluation of the Kidneys in Pediatric Patients with Unilateral Vesicoureteral Reflux**
KALYONCU UÇAR A., Cicek R. Y. , Alis D. C. , Akbas S., Habibi H. A. , Arslan M. U. , Eral G., SÜLEYMAN A., ÇALIŞKAN S., ADALETLİ İ.
JOURNAL OF ULTRASOUND IN MEDICINE, vol.38, no.2, pp.379-385, 2019 (Journal Indexed in SCI)
- XXIII. **Reversible cerebellar herniation after epidural blood patch in a patient with spontaneous intracranial hypotension**
Bakan S., Alis D. C. , Alis C., Kizilkilic O., Kocer N., Islak C.
DIAGNOSTIC AND INTERVENTIONAL IMAGING, vol.100, no.2, pp.127-128, 2019 (Journal Indexed in SCI)
- XXIV. **Diagnostic Capabilities of MRI Versus F-18 FDG PET-CT in Postoperative Patients with Thyroglobulin Positive, I-131-negative Local Recurrent or Metastatic Thyroid Cancer**
SAMANCI C., Onal Y., SAĞER M. S. , Asa S., Ustabasioglu F. E. , Alis D. C. , Akman C., SÖNMEZOĞLU K.
CURRENT MEDICAL IMAGING, vol.15, no.10, pp.956-964, 2019 (Journal Indexed in SCI)

- XXV. **The preliminary results of a new CT-guided periradicular cervical steroid injection technique: safety and feasibility of the lateral peri-isthmic approach in 28 patients**
 Ulusoy O. L. , Alis D. C. , Mutlu A., Colakoglu B., Sirvanci M.
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- XXVI. **The prevalence and characteristics of the subclavius posticus muscle in the adult population on MRI**
 Ulusoy O. L. , Alis D. C. , Oz A., Barlas S. B. , Sokmen B. K. , Sever S., Mutlu A., Colakoglu B.
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- XXVII. **Preoperative arterial embolization of endobronchial glomus tumor before endoscopic removal**
 Bakan S., Alis D. C. , Namdar Y., GÜLŞEN F., KILIÇ B., ÖZ A. B.
 DIAGNOSTIC AND INTERVENTIONAL IMAGING, vol.99, no.9, pp.579-580, 2018 (Journal Indexed in SCI)
- XXVIII. **A Case Report of Symptomatic Subclavius Posticus Muscle in a Synchronized Swimmer**
 Ulusoy O. L. , Barlas B. S. , Mutlu A., Alis D. C. , Enercan M.
 IRANIAN JOURNAL OF RADIOLOGY, vol.15, no.3, 2018 (Journal Indexed in SCI)
- XXIX. **Evaluation of median nerve by shear wave elastography and diffusion tensor imaging in carpal tunnel syndrome**
 Cingoz M., Kandemirli S. G. , Alis D. C. , SAMANCI C., Kandemirli G. C. , Adatepe N. U.
 EUROPEAN JOURNAL OF RADIOLOGY, vol.101, pp.59-64, 2018 (Journal Indexed in SCI)
- XXX. **Magnetic Resonance and Computed Tomography Findings of Isolated Hydatid Cyst of the Interventricular Septum**
 Alis D. C. , Turna O.
 JOURNAL OF THE BELGIAN SOCIETY OF RADIOLOGY, vol.102, no.1, 2018 (Journal Indexed in SCI)
- XXXI. **Assessment of the common carotid artery wall stiffness by Shear Wave Elastography in Behcet's disease**
 Alis D. C. , Durmaz E. S. M. , Alis C., Tutuncu M., SAİP S., Kocer N., Islak C., Kizilkilic O.
 MEDICAL ULTRASONOGRAPHY, vol.20, no.4, pp.446-452, 2018 (Journal Indexed in SCI)
- XXXII. **Flat-detector CT angiography in the evaluation of neuro-Behcet disease**
 Alis D. C. , Civcik C., Erol B. C. , Kizilkilic O., Kocer N., Islak C.
 DIAGNOSTIC AND INTERVENTIONAL IMAGING, vol.98, no.11, pp.813-815, 2017 (Journal Indexed in SCI)
- XXXIII. **Evaluation of carotid intima-media thickness with vascular endothelial growth factor and malondialdehyde levels in patients with sarcoidosis**
 Samanci N. S. , Poturoglu S., SAMANCI C., Alis D. C. , Emre H. O. , Koldas M., Ozcelik H. K. , Durmus T., Kantarci F., Ozturk S.
 DIAGNOSTIC AND INTERVENTIONAL IMAGING, vol.98, pp.557-561, 2017 (Journal Indexed in SCI)
- XXXIV. **Commenton "Adding Shear Wave Elastography to Conventional Sonography Did Not Improve Diagnostic Performance: Was There a Problem With the Cut off Value?"**
 Alis D. C. , Yildirim D.
 JOURNAL OF ULTRASOUND IN MEDICINE, vol.36, no.6, pp.1286-1287, 2017 (Journal Indexed in SCI)
- XXXV. **Apparent diffusion coefficient measurement of ovarian stroma: A potential tool for the diagnosis of polycystic ovary syndrome**
 SAMANCI C., Alis D. C. , Ustabasioglu F. E. , ÖZMEN E., KALYONCU UÇAR A., ASLAN M. Ç. , Habibi H. A. , Bakan S., Ozcabi B., EVLİYAOĞLU S. O. , et al.
 DIAGNOSTIC AND INTERVENTIONAL IMAGING, vol.98, no.1, pp.57-61, 2017 (Journal Indexed in SCI)
- XXXVI. **A preliminary study of shear wave elastography for the evaluation of unilateral palpable undescended testes**
 KALYONCU UÇAR A., Alis D. C. , SAMANCI C., Aslan M., Habibi H. A. , Dikici A. S. , Namdar Y., Gultekin M. H. , Onal B., ADALETLİ İ.
 EUROPEAN JOURNAL OF RADIOLOGY, vol.86, pp.248-251, 2017 (Journal Indexed in SCI)
- XXXVII. **Is There Any Difference Between Seminomas and Nonseminomatous Germ Cell Tumors on Shear Wave Elastography? A Preliminary Study**
 Dikici A. S. , Er M. E. , Alis D. C. , SAMANCI C., Ustabasioglu F. E. , DEMİRDAĞ Ç., Durak H., Kantarci F., Mihmanli I.
 JOURNAL OF ULTRASOUND IN MEDICINE, vol.35, no.12, pp.2575-2580, 2016 (Journal Indexed in SCI)

- XXXVIII. **A Rare Complication of Behcet's Disease: An Incidentally Detected and Spontaneously Thrombosed Sinus of Valsalva Aneurysm**
 Bakan S., Yamac E., Alis D. C. , Ustabasioglu F. E.
 ANNALS OF THORACIC SURGERY, vol.101, no.5, 2016 (Journal Indexed in SCI)
- XXXIX. **A dilemma at gray scale thyroid ultrasound: microcalcification or not? Differentiation with Acoustic Radiation Force Impulse Imaging - Virtual Touch Imaging**
 Yildirim D., Samanci C., Ustabasioglu F. E. , Alis D. C. , Colakoglu B., Bakir A., Tutar O., Kilavuz A. E. , Kaur A.
 MEDICAL ULTRASONOGRAPHY, vol.18, no.4, pp.452-456, 2016 (Journal Indexed in SCI)
- XL. **Penile masses: Shear Wave Elastography correlated with Magnetic Resonance Imaging. A two cases report**
 Alis D. C. , Ustabasioglu F. E. , SAMANCI C., Boz S. M. , ŞİROLU S., Kantarci F.
 MEDICAL ULTRASONOGRAPHY, vol.18, no.4, pp.515-517, 2016 (Journal Indexed in SCI)
- XLI. **Pre-operative Angiographic Demonstration of Meckel's Diverticulum with Massive Bleeding**
 Bas A., Alis D. C. , SAMANCI C., Ustabasioglu F., Bakan S., Cetin A.
 JOURNAL OF THE BELGIAN SOCIETY OF RADIOLOGY, vol.100, no.1, 2016 (Journal Indexed in SCI)

Articles Published in Other Journals

- I. **Diagnostic values of edema-sensitive T2-weighted imaging, TSE T1-weighted early contrast-enhanced imaging, late gadolinium enhancement, and the Lake Louise criteria in assessing acute myocarditis: A single-center cardiac magnetic resonance study**
 Alis D. C. , Guler A., Asmakutlu O., Uygur B., Ordekci S.
 TURK KARDIYOLOJİ DERNEĞİ ARSIVI-ARCHIVES OF THE TURKISH SOCIETY OF CARDIOLOGY, vol.48, no.3, pp.246-254, 2020 (Journal Indexed in ESCI)
- II. **Diagnostic Value of Ultrasound and Tc-99m MIBI scintigraphy and SPECT/CT for Pre-operative Localization of Parathyroid Adenoma in Patients with Primary Hyperparathyroidism: A Single-Center Comparative Study**
 Colakoglu B., Alis D. C.
 JOURNAL OF ACADEMIC RESEARCH IN MEDICINE-JAREM, vol.9, no.3, pp.115-120, 2019 (Journal Indexed in ESCI)
- III. **Diagnostic accuracy of noncompacted-to-compacted wall ratio criteria on CMRI for the diagnosis of left ventricular noncompaction**
 Alis D. C. , Sahin A., Guler A., Asmakutlu O.
 MARMARA MEDICAL JOURNAL, vol.32, no.3, pp.124-129, 2019 (Journal Indexed in ESCI)
- IV. **Evaluation of parenchymal thyroid diseases with multiparametric ultrasonography.**
 Yildirim D., Alis D. C. , Bakir A., Ustabasioglu F., Samanci C., Colakoglu B.
 The Indian journal of radiology & imaging, vol.27, pp.463-469, 2017 (Refereed Journals of Other Institutions)
- V. **Apparent Diffusion Coefficient Measurement in Mediastinal Lymphadenopathies: Differentiation between Benign and Malignant Lesions**
 Ustabasioglu F. E. , SAMANCI C., Alis D. C. , ŞENGÜL SAMANCI N., Kula O., Olgun D. C.
 JOURNAL OF CLINICAL IMAGING SCIENCE, vol.7, pp.1-5, 2017 (Journal Indexed in ESCI)
- VI. **Elastography in Distinguishing Benign from Malignant Thyroid Nodules**
 Colakoglu B., Yildirim D., Alis D. C. , Ucar G., Samanci C., Ustabasioglu F. E. , Bakir A., Ulusoy O. L.
 JOURNAL OF CLINICAL IMAGING SCIENCE, vol.6, 2016 (Journal Indexed in ESCI)
- VII. **Multiple pericardial abscesses in a child with known chronic granulomatous disease**
 Kalyoncu A. U. , Habibi H. A. , Aslan M., Alis D. C. , AYGÜN F. D. , Camcioglu Y., ADALETLİ İ.
 ANNALS OF PEDIATRIC CARDIOLOGY, vol.9, no.3, pp.272-273, 2016 (Journal Indexed in ESCI)
- VIII. **Laparoscopic Management of a Very Rare Case: Cystic Artery Pseudoaneurysm Secondary to Acute Cholecystitis**
 Alis D. C. , Ferahman S., DEMİRYAS S., SAMANCI C., Ustabasioglu F. E.
 CASE REPORTS IN SURGERY, vol.2016, 2016 (Journal Indexed in ESCI)

IX. Typical MDCT Angiography Findings of an Unusual Cutaneous Neoplasia; Masson Tumor

Tutar O., Samanci C., Bakan S., Alis D. C. , Kaur A., Sanli D. T. , Yildirim D.

POLISH JOURNAL OF RADIOLOGY, vol.80, pp.36-39, 2015 (Journal Indexed in ESCI)

Refereed Congress / Symposium Publications in Proceedings

I. THE DIAGNOSTIC PERFORMANCE OF CONVOLUTIONAL RECURRENT NEURAL NETWORKS FOR DETECTING INTRACRANIAL HEMORRHAGE (ICH) ON NON-CONTRAST HEAD COMPUTED TOMOGRAPHY

ALİŞ D. C. , Yergin M., Çelenk M., Yaman E., BAĞCILAR Ö., BAĞCILAR Y. D. , ALİŞ C., TOPEL Ç., Asmakutlu O., NACAR DOĞAN S., et al.

41. Ulusal Türk Radyoloji Kongresi, Turkey, 24 October 2020

II. AUTOMATED DETECTION AND DEMONSTRATION OF ISCHEMIC STROKE ON DWI USING CONVOLUTIONAL NEURAL NETWORKS WITH GRADIENT-WEIGHTED CLASS ACTIVATION MAPPING

ALİŞ D. C. , BAĞCILAR Ö., BAĞCILAR Y. D. , Yergin M., Asmakutlu O., TOPEL Ç., Çelenk M., Yaman E., ALİŞ C., VELİOĞLU M., et al.

Türk Manyetik Rezonans Derneği TMRD 2020 Tanıda İpuçları ve Tuzaklar, Turkey, 10 - 11 September 2020

III. SUPERB MICROVASCULAR IMAGING COMPARED WITH POWER DOPPLER ULTRASOUND IN ASSESSING SYNOVITIS OF THE KNEE IN JUVENILE IDIOPATHIC ARTHRITIS: A PRELIMINARY STUDY

Alis D. C. , Erol B. C. , Akbas S., Adrovic A., Yildiz M., BARUT K., KASAPÇOPUR Ö., ADALETLİ İ.

Annual European Congress of Rheumatology (EULAR), Madrid, Spain, 12 - 15 June 2019, vol.78, pp.1930

Supported Projects

Öksüz İ., Alis D. C. , TUBITAK Project, Interpretable Deep Learning for Fast Medical Image Reconstruction and Analysis, 2020 - 2023

Alis D. C. , TUBITAK Project, İN MENİN MRG VE BT İLE TESPİTİNDE YAPAY ZEKA TEMELLİ TANI: İNME ERKEN UYARI SİSTEMİ (İEUS), 2020 - 2021

Citations

Total Citations (WOS):126

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