

Introduction to artificial intelligence in ultrasound imaging

Ultrasound in Obstetrics and Gynecology

56, 498-505

DOI: [10.1002/uog.22122](https://doi.org/10.1002/uog.22122)

Citation Report

#	ARTICLE	IF	CITATIONS
1	Accuracy of automated three-dimensional ultrasound imaging technique for fetal head biometry. <i>Ultrasound in Obstetrics and Gynecology</i> , 2021, 57, 798-803.	0.9	19
2	Does artificial intelligence for classifying ultrasound imaging generalize between different populations and contexts?. <i>Ultrasound in Obstetrics and Gynecology</i> , 2021, 57, 342-343.	0.9	7
3	How often do we identify fetal abnormalities during routine third-trimester ultrasound? A systematic review and meta-analysis. <i>BJOG: an International Journal of Obstetrics and Gynaecology</i> , 2021, 128, 259-269.	1.1	24
4	Shadow Estimation for Ultrasound Images Using Auto-Encoding Structures and Synthetic Shadows. <i>Applied Sciences (Switzerland)</i> , 2021, 11, 1127.	1.3	21
5	UOG now and beyond!. <i>Ultrasound in Obstetrics and Gynecology</i> , 2021, 57, 7-8.	0.9	0
6	Performance of Ultrasound Techniques and the Potential of Artificial Intelligence in the Evaluation of Hepatocellular Carcinoma and Non-Alcoholic Fatty Liver Disease. <i>Cancers</i> , 2021, 13, 790.	1.7	14
7	Metrics used to evaluate obstetric ultrasound skills on simulators: A systematic review. <i>European Journal of Obstetrics, Gynecology and Reproductive Biology</i> , 2021, 258, 16-22.	0.5	4
8	A real-time anatomy identification via tool based on artificial intelligence for ultrasound-guided peripheral nerve block procedures: an accuracy study. <i>Journal of Anesthesia</i> , 2021, 35, 591-594.	0.7	20
9	High-frequency ultrasound as a scientific tool for skin imaging analysis. <i>Experimental Dermatology</i> , 2021, 30, 897-910.	1.4	15
13	Artificial intelligence (AI) in the detection of rectosigmoid deep endometriosis. <i>European Journal of Obstetrics, Gynecology and Reproductive Biology</i> , 2021, 261, 29-33.	0.5	16
14	Artificial intelligence in ultrasound. <i>European Journal of Radiology</i> , 2021, 139, 109717.	1.2	75
15	Transforming obstetric ultrasound into data science using eye tracking, voice recording, transducer motion and ultrasound video. <i>Scientific Reports</i> , 2021, 11, 14109.	1.6	30
16	Artificial intelligence in medical ultrasonography: driving on an unpaved road. <i>Ultrasonography</i> , 2021, 40, 313-317.	1.0	14
17	Application of an individualized nomogram in first-trimester screening for trisomy 21. <i>Ultrasound in Obstetrics and Gynecology</i> , 2021, 58, 56-66.	0.9	12
18	Novel artificial intelligence approach for automatic differentiation of fetal occiput anterior and non-occiput anterior positions during labor. <i>Ultrasound in Obstetrics and Gynecology</i> , 2022, 59, 93-99.	0.9	9
19	Applications of Advanced Ultrasound Technology in Obstetrics. <i>Diagnostics</i> , 2021, 11, 1217.	1.3	11
21	A 10-Year Retrospective Review of Prenatal Applications, Current Challenges and Future Prospects of Three-Dimensional Sonoangiography. <i>Diagnostics</i> , 2021, 11, 1511.	1.3	4
22	Artificial Intelligence in Quantitative Ultrasound Imaging. <i>Journal of Ultrasound in Medicine</i> , 2021, , .	0.8	2

#	ARTICLE	IF	CITATIONS
23	Machine learning-based analysis of operator pupillary response to assess cognitive workload in clinical ultrasound imaging. <i>Computers in Biology and Medicine</i> , 2021, 135, 104589.	3.9	10
24	Analysis of maturation features in fetal brain ultrasound via artificial intelligence for the estimation of gestational age. <i>American Journal of Obstetrics &amp; Gynecology MFM</i> , 2021, 3, 100462.	1.3	18
25	Brain views that benefit from three-dimensional ultrasound. <i>Current Opinion in Obstetrics and Gynecology</i> , 2021, 33, 135-142.	0.9	1
26	Exploring a New Paradigm for the Fetal Anomaly Ultrasound Scan: Artificial Intelligence in Real Time. <i>SSRN Electronic Journal</i> , 0, , .	0.4	1
27	Exploring a new paradigm for the fetal anomaly ultrasound scan: Artificial intelligence in real time. <i>Prenatal Diagnosis</i> , 2022, 42, 49-59.	1.1	16
28	Critical Factors and Economic Methods for Regulatory Impact Assessment in the Medical Device Industry. <i>Risk Management and Healthcare Policy</i> , 2022, Volume 15, 71-91.	1.2	4
29	A review of image processing methods for fetal head and brain analysis in ultrasound images. <i>Computer Methods and Programs in Biomedicine</i> , 2022, 215, 106629.	2.6	25
30	Re-focusing explainability in medicine. <i>Digital Health</i> , 2022, 8, 205520762210744.	0.9	20
31	AI and The Cardiologist-When Mind, Heart and Machine Unite. <i>Communications in Computer and Information Science</i> , 2022, , 123-132.	0.4	0
32	AI and the cardiologist: when mind, heart and machine unite. <i>Open Heart</i> , 2021, 8, e001874.	0.9	3
33	Exploring the role of artificial intelligence in the study of fetal heart. <i>International Journal of Cardiovascular Imaging</i> , 2022, 38, 1017-1019.	0.7	5
34	Real-time identification of fetal anomalies on ultrasound using artificial intelligence: what's next?. <i>Ultrasound in Obstetrics and Gynecology</i> , 2022, 59, 285-287.	0.9	4
35	Use of real-time artificial intelligence in detection of abnormal image patterns in standard sonographic reference planes in screening for fetal intracranial malformations. <i>Ultrasound in Obstetrics and Gynecology</i> , 2022, 59, 304-316.	0.9	23
36	Imaging fetal anatomy. <i>Seminars in Cell and Developmental Biology</i> , 2022, 131, 78-92.	2.3	13
37	Function and Safety of SlowflowHD Ultrasound Doppler in Obstetrics. <i>Ultrasound in Medicine and Biology</i> , 2022, 48, 1157-1162.	0.7	5
38	Artificial intelligence in obstetrics. <i>Obstetrics and Gynecology Science</i> , 2022, 65, 113-124.	0.6	11
39	A Systematic Review and Bibliometric Analysis of Applications of Artificial Intelligence and Machine Learning in Vascular Surgery. <i>Annals of Vascular Surgery</i> , 2022, 85, 395-405.	0.4	20
40	Legal and Ethical Consideration in Artificial Intelligence in Healthcare: Who Takes Responsibility?. <i>Frontiers in Surgery</i> , 2022, 9, 862322.	0.6	154

#	ARTICLE	IF	CITATIONS
41	Contributions of Artificial Intelligence Reported in Obstetrics and Gynecology Journals: Systematic Review. <i>Journal of Medical Internet Research</i> , 2022, 24, e35465.	2.1	20
42	Diagnosis and Analysis of Transabdominal and Intracavity Ultrasound in Gynecological Acute Abdomen. <i>Computational and Mathematical Methods in Medicine</i> , 2021, 2021, 1-8.	0.7	12
44	Amniotic Fluid Classification and Artificial Intelligence: Challenges and Opportunities. <i>Sensors</i> , 2022, 22, 4570.	2.1	8
45	Clinical workflow of sonographers performing fetal anomaly ultrasound scans: deep learning-based analysis. <i>Ultrasound in Obstetrics and Gynecology</i> , 2022, 60, 759-765.	0.9	10
46	The impact of antenatal imaging on parent experience and prenatal attachment: a systematic review. <i>Journal of Reproductive and Infant Psychology</i> , 2024, 42, 22-44.	0.9	7
47	Using deep-learning in fetal ultrasound analysis for diagnosis of cystic hygroma in the first trimester. <i>PLoS ONE</i> , 2022, 17, e0269323.	1.1	9
48	A picture is worth 1000 words: textual analysis of routine 20-week scan. <i>Ultrasound in Obstetrics and Gynecology</i> , 0, , .	0.9	0
49	Point-of-care ultrasound for abdominal pain in obstetrics and gynecological diseases. <i>Journal of Medical Ultrasonics (2001)</i> , 0, , .	0.6	0
50	Application of Artificial Intelligence to Ultrasonography. <i>Science Insights</i> , 2022, 41, 577-581.	0.1	0
51	Standardization and quality control of Doppler and fetal biometric ultrasound measurements in low-income setting. <i>Ultrasound in Obstetrics and Gynecology</i> , 2023, 61, 481-487.	0.9	0
52	Yapay Zeka Teknolojisinin Perinatal Dönem Bakımına Entegrasyonu ve Uygulama Örnekleri. , 2022, 5, 1-11.		1
53	Importance of Ultrasonic Testing and Its Metrology Through Emerging Applications. , 2022, , 1-17.		1
54	Feasibility of Using Feature Entropy Reduction to Auto-Catch Response Frames of Video Ultrasound Data for Deep Learning Model to Detect Breast Tumors. <i>SSRN Electronic Journal</i> , 0, , .	0.4	0
55	FemNet: Distilling Responsible Frames from Ultrasound Cineclips of Breast Cancer Screening Using Feature Entropy Empowered Deep Learning. <i>SSRN Electronic Journal</i> , 0, , .	0.4	0
56	Evaluation of the impact of assistive artificial intelligence on ultrasound scanning for regional anaesthesia. <i>British Journal of Anaesthesia</i> , 2023, 130, 226-233.	1.5	15
57	Multitask Deep Neural Network for the Fully Automatic Measurement of the Angle of Progression. <i>Computational and Mathematical Methods in Medicine</i> , 2022, 2022, 1-14.	0.7	4
59	Use of artificial intelligence in obstetrics: not quite ready for prime time. <i>American Journal of Obstetrics &amp; Gynecology MFM</i> , 2023, 5, 100792.	1.3	14
60	Feasibility of using AI to auto-catch responsible frames in ultrasound screening for breast cancer diagnosis. <i>IScience</i> , 2023, 26, 105692.	1.9	3

#	ARTICLE	IF	CITATIONS
61	Use of artificial intelligence and deep learning in fetal ultrasound imaging. <i>Ultrasound in Obstetrics and Gynecology</i> , 2023, 62, 185-194.	0.9	5
62	A framework for computing angle of progression from transperineal ultrasound images for evaluating fetal head descent using a novel double branch network. <i>Frontiers in Physiology</i> , 0, 13, .	1.3	1
63	Referral ultrasound in fetal medicine: May telemedicine play a pivotal role?. <i>Journal of Clinical Ultrasound</i> , 2023, 51, 72-73.	0.4	0
64	Audit of fetal biometry: understanding sources of error to improve our practice. <i>Ultrasound in Obstetrics and Gynecology</i> , 2023, 61, 431-435.	0.9	2
65	Machine learning-based clinical decision support systems for pregnancy care: A systematic review. <i>International Journal of Medical Informatics</i> , 2023, 173, 105040.	1.6	5
66	A Comprehensive Review of the Role of Artificial Intelligence in Obstetrics and Gynecology. <i>Cureus</i> , 2023, , .	0.2	5
67	AI: Can It Make a Difference to the Predictive Value of Ultrasound Breast Biopsy?. <i>Diagnostics</i> , 2023, 13, 811.	1.3	3
68	Fetal magnetic resonance imaging artifacts: role of deep learning to improve imaging. <i>Ultrasound in Obstetrics and Gynecology</i> , 2023, 62, 302-303.	0.9	0
69	Applying artificial intelligence to the use of ultrasound as an educational tool: A focus on ultrasound-guided regional anesthesia. <i>Anatomical Sciences Education</i> , 0, , .	2.5	2
70	Chat Generative Pre-trained Transformer: why we should embrace this technology. <i>American Journal of Obstetrics and Gynecology</i> , 2023, 228, 706-711.	0.7	33
71	Research on Ethical Issues and Coping Strategies of Artificial Intelligence Algorithms Recommending News with the Support of Wireless Sensing Technology. <i>Journal of Sensors</i> , 2023, 2023, 1-9.	0.6	0
81	Importance of Ultrasonic Testing and Its Metrology Through Emerging Applications. , 2023, , 791-807.		0
82	The Promise of Query Answering Systems in Sexuality Studies: Current State, Challenges and Limitations. <i>Lecture Notes in Computer Science</i> , 2023, , 39-49.	1.0	0
85	Future Applications of Handheld POCUS. , 2023, , 367-373.		0
95	Regulation of Tech Forces-Technological Backlash: The Luddite Perspective. <i>Future of Business and Finance</i> , 2024, , 179-200.	0.3	0