

Publications

[An assessment of independent component analysis for detection of military targets from hyperspectral images](#)

KC Tiwari, MK Arora, D Singh

International Journal of Applied Earth Observation and Geoinformation 13 (5 ...

[Development of a model for detection and estimation of depth of shallow buried non-metallic landmine at microwave X-band frequency](#)

KC Tiwari, D Singh, M Arora

Progress In Electromagnetics Research 79, 225-250

[Military target detection using spectrally modeled algorithms and independent component analysis](#)

KC Tiwari, MK Arora, D Singh, D Yadav

Optical Engineering 52 (2), 026402-026402

[Subpixel Target Enhancement in Hyperspectral Images.](#)

MK Arora, KC Tiwari

Defence science journal 63 (1)

[Extraction of urban built-up surfaces and its subclasses using existing built-up indices with separability analysis of spectrally mixed classes in AVIRIS-NG imagery](#)

D Pandey, KC Tiwari

Advances in Space Research 66 (8), 1829-1845

[Spectral-spatial urban target detection for hyperspectral remote sensing data using artificial neural network](#)

S Gakhar, KC Tiwari

The Egyptian Journal of Remote Sensing and Space Science 24 (2), 173-180

[Effect of neural network variables on image classification](#)

MK Arora, KC Tiwari, B Mohanty

Asian Pacific Remote Sensing and GIS Journal 13, 1-11

[Comparative analysis of SVM and ANN classifiers using multilevel fusion of multi-sensor data in urban land classification](#)

R Vohra, KC Tiwari

Sensing and Imaging 21 (1), 17

[Glacier-glacial lake changes and modeling glacial lake outburst flood in Upper Ganga Basin, India](#)

M Rawat, R Ahmed, SK Jain, AK Lohani, G Rongali, KC Tiwari

Modeling Earth Systems and Environment 9 (1), 507-526

[Shape recognition of shallow buries metallic objects at X-band using ANN and image analysis techniques](#)

D Singh, NK Choudhary, KC Tiwari, R Prasad

Electromagnetics Academy

[Detection and Identification of Camouflaged Targets using Hyperspectral and LiDAR data.](#)

D Yadav, MK Arora, KC Tiwari, JK Ghosh

Defence Science Journal 68 (6)

[Parameters affecting target detection in VNIR and SWIR range](#)

D Yadav, MK Arora, KC Tiwari, JK Ghosh

The Egyptian Journal of Remote Sensing and Space Science 21 (3), 325-333

[New spectral indices for detection of urban built-up surfaces and its sub-classes in AVIRIS-NG hyperspectral imagery](#)

D Pandey, KC Tiwari

Geocarto International 37 (7), 1949-1970

[Exploring the optimal combination of image fusion and classification techniques](#)

S Singh, KC Tiwari

Remote Sensing Applications: Society and Environment 24, 100642

[Spatial shape feature descriptors in classification of engineered objects using high spatial resolution remote sensing data](#)

R Vohra, KC Tiwari

Evolving Systems 11 (4), 647-660

[Identification of most useful spectral ranges in improvement of target detection using hyperspectral data](#)

D Yadav, MK Arora, KC Tiwari, JK Ghosh

The Egyptian Journal of Remote Sensing and Space Science 22 (3), 347-357

[Object based classification using multisensor data fusion and support vector algorithm](#)

R Vohra, KC Tiwari

International Journal of Image and Data Fusion 9 (1), 63-81

[Land cover classification using multi-fusion based dense transpose convolution in fully convolutional network with feature alignment for remote sensing images](#)

R Vohra, KC Tiwari

Earth Science Informatics 16 (1), 983-1003

[Loss of target information in full pixel and subpixel target detection in hyperspectral data with and without dimensionality reduction](#)

A Bhandari, KC Tiwari

Evolving Systems 12, 239-254

[Neural network parameters affecting image classification](#)

KC Tiwari

Defence Science Journal 51 (3), 263-278

[Analysis of land use and land cover changes and their impact on temperature using landsat satellite imageries](#)

R Vohra, KC Tiwari

Environment, Development and Sustainability 25 (8), 8623-8650

[Detection of engineered surfaces using deep learning approach in AVIRIS-NG hyperspectral data](#)

S Gakhar, KC Tiwari

Geocarto International 37 (23), 6932-6952

[Feature identification and extraction of urban built-up surfaces and materials in AVIRIS-NG hyperspectral imagery](#)

D Pandey, KC Tiwari

Geocarto International 37 (6), 1722-1743

[Multisensor multiresolution data fusion for improvement in classification](#)

V Rubeena, KC Tiwari

Multispectral, Hyperspectral, and Ultraspectral Remote Sensing Technology ...

[Subpixel target detection and enhancement in hyperspectral images](#)

KC Tiwari, M Arora, D Singh

Algorithms and Technologies for Multispectral, Hyperspectral, and ...

[KINETICS OF RU \(III\) CHLORIDE CATALYZED OXIDATION OF DI-ETHYLENE AND TRI-ETHYLENE GLYCOLS BY HEXACYANOFERRATE \(III\)](#)

HS Singh, KC Tiwari, SM Singh

INDIAN JOURNAL OF CHEMISTRY SECTION A-INORGANIC BIO-INORGANIC PHYSICAL ...

[MICROBIOLOGICAL-GROWTH IN AVIATION TURBINE FUEL](#)

KC Tiwari, HM Dayal, GP TANDAN, PN Agarwal

INDIAN JOURNAL OF EXPERIMENTAL BIOLOGY 15 (7), 579-581

[SAR and optical pixel level fusion methods and evaluations](#)

S Singh, KC Tiwari

Journal of Spatial Science, 1-21

[Comparative Assessment of Target-Detection Algorithms for Urban Targets Using Hyperspectral Data](#)

S Gakhar, KC Tiwari

Photogrammetric Engineering & Remote Sensing 87 (5), 349-362

[Multisensory decision level fusion for improvement in urban land classification](#)

R Vohra, KC Tiwari

Recent Advances in Computer Science and Communications (Formerly: Recent ...

[Spectral library creation and analysis of urban built-up surfaces and materials using field spectrometry](#)

D Pandey, KC Tiwari

Arabian Journal of Geosciences 14, 1-17

[Performance evaluation and comparative assessment of Sentinel-2B, Landsat-8, and AVIRIS-NG sensor imageries for extraction of road and roof surfaces using different algorithms](#)

D Pandey, KC Tiwari

Journal of Applied Remote Sensing 14 (3), 034502-034502

[The Potential of UAV Based Remote Sensing for Monitoring Hindu Kush Himalayan Glaciers](#)

A Rai, A Pandey, PK Mishra, KC Tiwari

Proceedings of UASG 2019: Unmanned Aerial System in Geomatics 1, 301-314

[An assessment of effects of various parameters on target detection using hyperspectral data](#)

D Yadav, MK Arora, KC Tiwari, JK Ghosh

Multispectral, Hyperspectral, and Ultraspectral Remote Sensing Technology ...

[A Review of Spectral Unmixing Techniques in Target Detection](#)

A Bhandari, KC Tiwari

Year

[Mapping of Glacial Lakes and Glacial Lake Outburst Flood in Kinnaur District, Himachal Pradesh Using Remote Sensing and GIS](#)

P Vishwas, KC Tiwari, G Rongali, R Vohra

Advanced Geospatial Practices in Natural Environment Resource Management ...

[Extraction of Urban Targets Using Fusion of Spectral and Shape Features in AVIRIS-NG Hyperspectral Data: Use of Hyperspectral Data for Detecting Roads and Roofs](#)

S Gakhar, KC Tiwari

Advanced Geospatial Practices in Natural Environment Resource Management ...

[Hyper-Sharpener For Urban Feature Extraction](#)

K Sharma, KC Tiwari

2023 IEEE India Geoscience and Remote Sensing Symposium (InGARSS), 1-4

[Leveraging the role of computer vision in agriculture applications](#)

S Gakhar, S Patwar, S Sharma, KC Tiwari

[Identification of Vulnerable Lakes in Chenab River Basin of Western Himalayan Region.](#)

A Srivastava, KC Tiwari

International Journal of COMADEM 25 (4)

[Mapping of glacial lakes and glacial lake outburst flood in Kinnaur district, Himachal Pradesh using remote sensing and GIS](#)

G Rongali, KC Tiwari, P Vishwas

[Potentially Dangerous Glacial Lake Risk Mapping and Assessment in Satluj River Basin, Himachal Pradesh Using Remote Sensing and GIS](#)

G Rongali, KC Tiwari, P Vishwas

Recent Trends in River Corridor Management: Select Proceedings of RCRM 2021 ...

[Object-Based Land Cover Classification Using Multisensor Remote Sensing Data](#)

R Vohra, KC Tiwari

Addressing Environmental Challenges Through Spatial Planning, 20-41

[Effective Hyperspectral Image Classification Using Learning Models](#)

S Gautam, KC Tiwari

International Conference on Artificial Intelligence and Speech Technology ...

[Simulation and Evaluation of Glacier Lake Outburst Floods for Chenab River Basin](#)

<p>A Srivastava, KC Tiwari Solid State Technology 64 (2), 6017-6031</p>
<p><u>Index Based Extraction of Impervious Surfaces Using RGB and NIR Band Combinations in AVIRIS-NG Hyperspectral Imagery</u> D Pandey, KC Tiwari 2020 IEEE India Geoscience and Remote Sensing Symposium (InGARSS), 201-204</p>
<p><u>Detection and identification of targets using fusion of HSI and LiDAR data</u> D Yadav, MK Arora, KC Tiwari, JK Ghosh Proceedings of 38th Asian Conference on Remote Sensing-Space Applications ...</p>
<p><u>A study of neural network parameters for improvement in classification accuracy</u> A Pathak, KC Tiwari Algorithms and Technologies for Multispectral, Hyperspectral, and ...</p>
<p><u>A comparative assessment of various super-resolution techniques in target detection and enhancement using hyperspectral data</u> A Amrita, KC Tiwari Multispectral, Hyperspectral, and Ultraspectral Remote Sensing Technology ...</p>
<p><u>Performing target specific band reduction using artificial neural networks and assessment of its efficacy using various target detection algorithms</u> D Yadav, MK Arora, KC Tiwari, JK Ghosh Optical Pattern Recognition XXVII 9845, 42-55</p>
<p><u>Spectral discrimination using neural network for target detection</u> D Yadav, MK Arora, KC Tiwari, JK Ghosh 2015 National Conference on Recent Advances in Electronics & Computer ...</p>
<p><u>Polarisation transform analysis for detection of shallow buried non-metallic landmines in microwave X-band region</u> KC Tiwari, D Singh, M Arora Radar Sensor Technology XV 8021, 77-88</p>
<p><u>Detection of shallow buried nonmetallic landmine and estimation of its depth at microwave X-band frequency</u> KC Tiwari, D Singh, M Arora Radar Sensor Technology XIII 7308, 164-175</p>
<p><u>Algorithm Overview Based On Image Processing with Electromagnetic (EM) Techniques in X Band and GA Approach for Depth Estimation of Shallow Buried Dummy Mines</u> KC Tiwari, D Singh, M Arora 2007 IEEE Radar Conference, 331-336</p>
<p><u>Detection and estimation of depth of shallow buried non-metallic landmines using signal and image analysis techniques in microwave region in X-band</u> KC Tiwari, D Singh, M Arora Microwave Remote Sensing of the Atmosphere and Environment V 6410, 641015</p>
<p><u>CODEN DSJOAA</u> J Jayaraman, S Mohan, G Sridharan, G Natarajan, J Majumdar, A Duggal, ... Defence Science Journal 51, 213</p>
<p><u>Microbiological Spoilage of Aviation Turbine Fuel: Part II Evaluation of a Suitable Biocide</u> HM Dayal, KC Tiwari, GP Tandon Defence Science Journal 42 (1), 47</p>
<p><u>Underground Corrosion by Microorganisms. II. Role of Anaerobic Sulfate-Reducing Bacteria--Desulfotomaculum Species</u> HM Dayal, KC Tiwari, K Mehta Def. Sci. J. 38 (2), 217-221</p>
<p><u>Kinetics of Ru (III) Chloride Catalysed Oxidation of Di-&Tri-ethylene Glycols by Hexacyanoferrate (III)</u> HS Singh, KC Tiwari, SM Singh</p>

NISCAIR-CSIR, India

[A Euclidean Distance based Super Resolution Method for Sub pixel target detection in Hyper Spectral Images](#)

KC Tiwari, A Bhandari