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Matlab (Transaction/Journal Papers)

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Robotic OS (ROS) - Simulation

1. Development of non-Platform Mobile Robot for Simultaneous Localization And Mapping Using ROS.(Conf Oct 2019)
2. A Fast Feature Extraction Process for Visual SLAM. (Conf march 2019)
3. Simulation of Autonomous Airship on ROS-Gazebo Framework.(Conf Jan 2019)
4. Simulation in Real Conditions of Navigation and Obstacle Avoidance with PX4/Gazebo Platform. (Conf March 2019)

Robotic OS (ROS) - Hardware

5. Intelligent Hotel ROS-based Service Robot.(Conf Sep 2019) —Hardware Interface
6. SLAM Algorithm Analysis of Mobile Robot Based on LiDAR.(Conf July 2019) —Hardware Interface
7. ROS based Autonomous Mobile Robot Navigation using 2D LiDAR and RGB-D Camera. (Conf Jan 2019) —Hardware Interface
8. Study of ROS Based Localization and Mapping for Closed Area Survey. (Conf May 2019) —Hardware Interface

MACHINE LEARNING

9. Multi-Script-Oriented Text Detection and Recognition in Video/Scene/Born Digital Images.(Trans April 2019)
10. I-Am: Implicitly Authenticate Me Person Authentication on Mobile Devices Through Ear Shape and Arm Gesture.(Trans March 2019)
11. Particle Swarm Optimization Based Support Vector Machine (P-SVM) for the Segmentation and Classification of Plants.(Access 2019)
12. Practical Ozone Disinfection of Soil via Surface Barrier Discharge to Control Scab Diseases on Radishes. (Trans Jan 2019)

13. Wearable system based on flexible FBG for respiratory and cardiac monitoring.(Trans Sep 2019)—Hardware Interface

14. Denoising in the Dark: Privacy Preserving Deep Neural Network Based Image Denoising. (Preprint 2019)

15. CorNET: Deep Learning framework for PPG based Heart Rate Estimation and Biometric Identification in Ambulant Environment.(Trans April 2019)

16. A vision based method for automatic evaluation of germination rate of rice seeds. (Conf 2018)

DEEP LEARNING

17. Deep Learning COVID-19 Features on CXR using Limited Training Data Sets.(Trans Aug 2020)

18. Diagnosing Rotating Machines with Weakly Supervised Data Using Deep Transfer Learning.(Trans March 2020)

19. Iteratively Pruned Deep Learning Ensembles forCOVID-19 Detection in Chest X-rays.(Access 2020)

20. Learning Deep Gradient Descent Optimization for Image Deconvolution. (Access 2020)

21. On-line Building Energy Optimization using Deep Reinforcement Learning.(Trans July 2019)

22. Deep Fisher Net for Image Classification.(Trans July 2019)---Hardware Interface

23. Read, Watch, Listen and Summarize: Multi-modal Summarization for Asynchronous Text, Image, Audio and Video.(Trans May 2019)

24. A Multimodal Deep Learning Method for Android Malware Detection using Various Features.(Trans March 2019)

25. Deep Ensemble Machine for Video Classification.(Trans Feb 2019)

26. 3-D Fully Convolutional Networks for Multimodal Isointense Infant Brain Image Segmentation.(Trans March 2019)

27. Cardiac-DeepIED: Automatic Pixel-Level Deep Segmentation for Cardiac Bi-Ventricle Using Improved End-to-End Encoder-Decoder Network. (Journ Feb 2019)

28. Deep Learning and Handcrafted Method Fusion: Higher Diagnostic Accuracy for Melanoma Dermoscopy Images. (Journ July 2019)

29. Transfer Learning from Simulations on a Reference Anatomy for ECGI in Personalised Cardiac Resynchronization Therapy.(Trans Feb 2019)

30. Deep Learning Applications in Medical Image Analysis.(Access 2018)

31. Interactive Medical Image Segmentation using Deep Learning with Image-specific Fine-tuning.(Access 2018)

32. Cascaded Segmentation-Detection Networks for Text-Based Traffic Sign Detection.(Trans Jan 2018)

33. Deep Feature Fusion for Iris and Periocular Biometrics on Mobile Devices.(Trans Nov 2018)

34. Human Action Recognition by Learning Spatio-Temporal Features With Deep Neural Networks (Trans March 2018)

35. Sea Ships: A Large-Scale Precisely Annotated Dataset for Ship Detection(Trans Oct 2018)

Data Analytics

36. A Knowledge-Based Recommendation System that includes Sentiment Analysis and Deep Learning.(Trans April 2019)

37. Cross-Modality Micro blog Sentiment Prediction via Bi-Layer Multimodal Hyper graph Learning.(Trans April 2019)

38. Rainfall Prediction using Hybrid Neural Network approach. (Conf 2018)

39. Trust-based Collaborative Privacy Management in Online Social Networks.(Access 2018)

40. Data Gathering Algorithm for Children's Observation System(Conf.2018)

41. Grab, Pay and Eat: Semantic Food Detection for Smart Restaurants. (Trans Dec 2018)

ARTIFICIAL INTELLIGENCE

42. Predicting COVID-19 in China Using Hybrid AI Model.(Trans July 2020)

43. Cost-Effective Vehicle Type Recognition in Surveillance Images With Deep Active Learning and Web Data.(Trans Jan 2020)

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44. Road Segmentation Based on Hybrid Convolutional Network for High-Resolution Visible Remote Sensing Image.(Trans April 2019)

45. Driver Sleepiness Classification Based on Physiological Data and Driving Performance from Real Road Driving.(Trans Feb 2019) ---Hardware Interface

46. Automatic Vacant Parking Places Management System Using Multi camera Vehicle Detection.(Trans March 2019)

47. Driver Drowsiness Monitoring System using Visual Behavior and Machine Learning.(Conf 2018)

Cyber Security

48. Mobile crowd sensing approaches to address the COVID-19 pandemic in Spain.(IET Aug 2020)

49. SARA: Secure Asynchronous Remote Attestation for IoT systems.(Trans March 2020)

50. An IoT Honey net based on Multi-port Honey pots for Capturing IoT attacks.(Trans May 2020)

5G Communication/Signal Processing

51. Development of an Implantable Wireless and Battery less Bladder Pressure Monitor System for Lower Urinary Tract Dysfunction.(Access 2020)

52. An Ultrasound Based Biomedical System for Continuous Cardiopulmonary Monitoring: A Single Sensor for Multiple Information.(Trans Jan 2020)

53. Real-Time Filtering and ECG Signal Processing Based on Dual-Core Digital Signal Controller System.(Journal June 2020)

54. Similar Disease Prediction with Heterogeneous Disease Information Networks.(Trans July 2020)

55. Automatic ECG-Based Emotion Recognition in Music Listening. (Trans. Mar 2020)

56. Multi-sensor Compressive Sensing for High Frame-rate Imaging System in the THz Band.(Trans Sept 2019)

57. Cost-Aware Stochastic Compressive Data Gathering for Wireless Sensor Networks.(Trans Feb 2019)

58. Migratory Insect Multifrequency Radar Cross Sections for Morphological Parameter Estimation.(Trans June 2019)

59. Mobility Aware Relay Selection in 5G D2D Communication using Stochastic Model.(Trans March 2019)

60. Constrained Learned Feature Extraction for Acoustic Scene Classification.(Trans Aug 2019)

61. Energy Efficient Backhauling for 5G Small Cell Networks.(Trans Sep 2019)

62. SS5G: Energy Efficiency Evaluation of Linear Transmitters for 5G NR Wireless Waveforms.(Preprint 2019)

63. QoE-Assured Live Streaming via Satellite Backhaul in 5G Networks.(Trans June 2019)

64. Periodic Charging for Wireless Sensor Networks With Multiple Portable Chargers. (Access 2019)

65. Efficient and low complex uplink detection for 5G massive MIMO systems. (Conf 2018)

66. Evaluation performance of multicarrier system using hybrid schemes to Support 5G technology. (Conf 2018)

67. Edge-Enhanced Optimal Seamline Detection for Orthoimage Mosaicking.(Trans May 2018)

Medical Imaging / DIP

68. Super-Resolution of Optical Coherence Tomography Images by Scale Mixture Models. (Trans April 2020)

69. A Weakly-supervised Framework for COVID-19 Classification and Lesion Localization from Chest CT.(Trans Aug 2020)

70. Higher order spherical harmonics reconstruction of fetal diffusion MRI with intensity correction.(Trans April 2020)

71. Hybrid Noise-Oriented Multi label Learning.(Trans June2020)

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72. Image-to-Images Translation for Multi-Task Organ Segmentation and Bone Suppression in Chest X-Ray Radiography.(Trans July 2020)

73. RETOUCH - The Retinal OCT Fluid Detection and Segmentation Benchmark and Challenge.(Trans Aug 2019)

74. Energy Minimization With One Dot Fuzzy Initialization for Marine Oil Spill Segmentation.(Trans Oct 2019)

75. Hyperspectral Tissue Image Segmentation using Semi-Supervised NMF and Hierarchical Clustering.(Trans May 2019)

76. Dynamic Atlas-Based Segmentation and Quantification of Neuromelanin-Rich Brainstem Structures in Parkinson Disease.(Trans March 2019)

77. Fusion of Medical Sensors Using Adaptive Cloud Model in Local Laplacian Pyramid Domain.(Trans April 2019)

78. Segmentation of Vasculature from Fluorescently Labeled Endothelial Cells in Multi-Photon Microscopy Images. (Trans Jan 2019)

79. Accessible Melanoma Detection using Smartphones and Mobile Image Analysis. (Trans Oct 2018)

80. Curvature Integration in a 5D Kernel for Extracting Vessel Connections in Retinal Images. (Trans Feb 2018)

81. Identification of Nerve in Ultrasound Images Using U-net Architecture. (Conf 2018)

82. Prior-free Respiratory Motion Estimation in Rotational Angiography. (Trans Sep 2018)

83. Emotion Analysis for Personality Inference from EEG Signals. (Trans Sep 2018)

84. Optic Disk Detection in Fundus Image Based on Structured Learning. (Trans Jan 2018)

85. Developing Automated Bifurcation Angle Measurement Algorithm for Retinal Image Analysis.(conf 2018)

86. Automatic and Rapid antimicrobial Susceptibility Test on an integrated Micro fluidic Device. (Jan 2018)

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Digital Image Processing

87. MF-EFP: Predicting Multi-Functional Enzymes Function Using Improved Hybrid Multi-Label Classifier.(Access March 2020)

88. PixelRL: Fully Convolutional Network with Reinforcement learning for Image Processing. (Trans July 2020)

89. Soft-Edge Assisted Network for Single Image Super-Resolution.(Trans Feb 2020)

90. Burst Hotspots Dynamic Detection and Tracking on Large-Scale Text Stream.(Access March 2019)

91. Learning a Convolutional Neural Network for Image Compact-Resolution.(Trans March 2019)

92. Accurate Object Segmentation for Video Sequences via Temporal- Spatial-Frequency Saliency Model. (Trans Feb 2018)

93. Arbitrary-Oriented Ship Detection Framework in Optical Remote-Sensing Images.(Trans June 2018)

94. Multi-Feature Fusion Image Retrieval Algorithm Based on Fuzzy Color(Conf. July 2018)

Cryptography- Authentication

95. SLATE: A Secure Lightweight Entity Authentication Hardware Primitive. (Trans May 2019)

96. Deep Residual Network for Steganalysis of Digital Images.(Trans May 2019)

97. Memristors for Secret Sharing-Based Lightweight Authentication. (Trans Dec 2018)

98. FPGA Implementation of Image Steganography Algorithms using Generalized Exploiting Modification Direction and Pixel Segmentation Strategy.(Conf 2018)

99. Stroke Point Warping-Based Reference Selection and Verification of Online Signature (Trans 2018)

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Automation & Fault Detection

100. X-Ray Spectroscopy for Electrostatic Potential and Material Determination of Space Objects.(Trans Aug 2019)

101. Emerging From Water: Underwater Image Color Correction Based on Weakly Supervised Color Transfer. (Trans March 2018)

102. IPAD: Intensity Potential for Adaptive De-quantization.(Trans Oct 2018)

103. TextBoxes++: A Single-Shot Oriented Scene Text Detector.(Trans Aug 2018)

104. Automatic Seagrass Disturbance Pattern Identification on Sonar Images. (Trans Jan 2018)

105. Detection of water leakage in underground tunnels using corrected intensity data and 3D Point cloud of terrestrial laser scanning.(Access 2018)

Web Application

106. Robust Malware Detection for Internet Of (Battlefield) Things Devices Using Deep Eigenspace Learning.(Trans March 2019)

107. An Internet-of-Things enabled Smart Sensing System for Nitrate Monitoring.(Access 2018)-Hw

108. Landmark Image Retrieval by Jointing Feature Refinement and Multimodal Classifier Learning.(Trans June 2018)

Matlab Hardware Interface

109. Compressed-Domain Highway Vehicle Counting by Spatial and Temporal Regression.(Trans Jan 2019) ----Hardware Interface

110. BSDP: Big Sensor Data Preprocessing in Multi-Source Fusion Positioning System Using Compressive Sensing.(Trans sep 2019) ----Hardware Interface

111. Aggregation of Users in a Residential/Commercial Building Managed by a Building Energy Management System (BEMS) .(Trans Feb 2019) ----Hardware Interface

112. Parking Space Status Inference Upon a Deep CNN and Multi-Task Contrastive Network With Spatial Transform.(Trans April 2019) ----Hardware Interface

113. Wearable system based on flexible FBG for respiratory and cardiac monitoring.(Trans Sep 2019) ----Hardware Interface

114. Identifying Ketamine Responses in Treatment-Resistant Depression Using a Wearable Forehead EEG.(Trans June 2019) ----Hardware Interface

115. Lidar Remote Sensing of Seawater Optical Properties: Experiment and Monte Carlo Simulation. (Trans Nov 2019) ----Hardware Interface

116. LiDAR Data Classification Using Spatial Transformation and CNN. (Trans Jan 2019)

117. Restricted, Repetitive, and Stereotypical Patterns of Behavior in Autism—an fMRI Perspective. (Trans June 2019) ----Hardware Interface

118. Adversarial MACE Prediction after Acute Coronary Syndrome using Electronic Health Records.(Trans sep 2019) ----Hardware Interface

119. Interpixel Interference Mitigation Using Differential Coding in Vehicular Visible Light Communication Based Image Sensor.(Conf 2018) ----Hardware Interface

120. IC Solder Joint Inspection Based on an Adaptive-Template Method.(Trans June 2018) ----Hardware Interface

121. Spoiled meat classification using Semiconductor gas sensor image processing and neural network.(Conf 2018) ----Hardware Interface

122. Receiver-Initiated Dynamic Duty Cycle Scheduling Schemes for Underwater Wireless Sensor Networks.(Conf 2018) ----Hardware Interface

123. A Hardware Accelerated Robot Middleware Package for Intelligent Processing on Robots.(Conf 2018) ----Hardware Interface

ANTENNA Design

124. Analysis and Calibration of Crossed-Loop Antenna for Vessel DOA Estimation in HF Radar. (Trans Jan 2018)

125. Analysis and Design of a Low-Cost Circularly Polarized Horn Antenna(Trans. Aug 2018)

126. A Filtering Patch Antenna with Reconfigurable Frequency and Bandwidth Using F-shaped Probe (Trans. Oct 2018)

127. A Broadband Circularly Polarized Wide-Slot Antenna with a Miniaturized Footprint (Trans. Oct 2018)