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author={C. B. Delahunt and C. Mehanian and L. Hu and S. K. McGuire and C. R. Champlin and M. P. Horning and B. K. Wilson and C. M. Thompson},
booktitle={2015 IEEE Global Humanitarian Technology Conference (GHTC)},
title={Automated microscopy and machine learning for expert-level malaria field diagnosis},
year={2015},
volume={},
number={},
pages={393-399},
keywords={biomedical optical imaging;blood;diseases;image classification;learning (artificial intelligence);medical expert systems;medical image processing;neural nets;optical microscopy;patient diagnosis;support vector machines;Autoscope;SVM;blood volume;classification algorithms;comprehensive machine learning framework;computer vision;convolutional neural networks;expert-level malaria field diagnosis;hardware prototype;infectious disease diagnosis;leveraging computer vision;low-cost automated digital microscope;machine learning techniques;optical microscope;parasite load;rapid diagnostic tests;species identification;species quantitation;standard Giemsa stained thick smear blood slide;support vector machines;Blood;Computer vision;Diseases;Image color analysis;Microscopy;Optical microscopy;Support vector machines;computer vision;computer-aided diagnosis;machine learning;malaria;microscopy},
doi={10.1109/GHTC.2015.7344002},
ISSN={},
month={Oct},}

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author={P. Anupa Elizabeth and M. Saravana Mohan and P. Philip Samuel and S. R. Pandian and B. K. Tyagi},
booktitle={2014 International Conference on Recent Trends in Information Technology},
title={Identification and eradication of mosquito breeding sites using wireless networking and electromechanical technologies},
year={2014},
volume={},
number={},
pages={1-6},
keywords={Global Positioning System;biology computing;electronic messaging;geographic information systems;mobile computing;portals;radio networks;GIS;GPS;Web-based portal;dengue fever;electromechanical pumping systems;electromechanical technologies;geographic information system;global positioning system;malaria;mobile phones;mosquito breeding site eradication;mosquito breeding site identification;mosquito breeding suppression;mosquito-borne diseases;on-board camera;short message service;stagnant pools;stagnant water removal;wireless networking technologies;Databases;Diseases;Geographic information systems;Global Positioning System;Public healthcare;Sensors;Vehicles;Arduino;Electromechanical system;GIS;GPS;Mosquito-borne diseases;Sensors},
doi={10.1109/ICRTIT.2014.6996114},
ISSN={},
month={April},}

@INPROCEEDINGS{6970343,
author={J. T. Amenyo and D. Helps and O. Oladipo and F. Sewovoe-Ekuoe and S. Jadoonanan and S. Jadoonanan and T. Tabassum and S. Ghabode and T. D. Sherpa and M. Falzone and A. Hossain and A. Kublal},
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title={MedizDroids Project: Ultra-low cost, low-altitude, affordable and sustainable UAV multicopter drones for mosquito vector control in malaria disease management},
year={2014},
volume={},
number={},
pages={590-596},
keywords={aircraft control;autonomous aerial vehicles;control engineering computing;diseases;epidemics;helicopters;medical computing;medical robotics;microorganisms;microrobots;mobile robots;Chikungunya;Larval source management;MedizDroids project;West Nile virus disease;aerial spraying;affordable UAV multicopter drones;backpack spraying method;biological controls;breeding sites treatment;composite drones;dengue fever;elephantiasis;external environment-&-habitat management-modification-and-manipulation;ground vehicle mounted spraying;indoor residual spraying;infectious disease;insecticide treated bed nets;larviciding;low-altitude UAV multicopter drones;lymphatic filariasis;malaria disease management;malaria endemic subSaharan Africa;mosquito vector control;mosquito vector suppression;outdoor residual spraying;parasite drones;repellents;resting sites treatment;structured software platforms;sustainable UAV multicopter drones;ultra-low cost UAV multicopter drones;ultra-low volume space spraying;water bodies treatment;yellow fever;Agriculture;Automation;Diseases;Service-oriented architecture;Spraying;Unmanned aerial vehicles;Vectors;autopilot;drone;indoor residual spraying;integrated vector management;larval source management;malaria;mosquito control;multicopter;outdoor residual spraying;uav},

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booktitle={2016 IEEE International Geoscience and Remote Sensing Symposium (IGARSS)},
title={Multi-sensor data fusion for identifying malaria environmental features},
year={2016},
volume={},
number={},
pages={2529-2532},
keywords={diseases;remote sensing;sensor fusion;synthetic aperture radar;Brazil;French Guiana;SAR data;environmental changes;health problem;human habitats;human population exposure degree;land cover map;malaria environmental features;malaria transmission risk;malaria vector breeding site;malaria vector resting site;multisensor data fusion;optical data;population movements;synthetic aperture radar;Adaptive optics;Diseases;Indexes;Optical imaging;Optical sensors;Synthetic aperture radar;Wetlands;Multi-sensor;classification;malaria;optical and SAR;remote sensing},
doi={10.1109/IGARSS.2016.7729653},
ISSN={},
month={July},}

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booktitle={2015 Fifth National Conference on Computer Vision, Pattern Recognition, Image Processing and Graphics (NCVPRIPG)},
title={Quadcopter-based stagnant water identification},
year={2015},
volume={},
number={},
pages={1-4},
keywords={diseases;environmental science computing;health hazards;helicopters;image processing;mobile robots;robot vision;dengue;health hazard;image processing;malaria;quadcopter-based stagnant water identification;Diseases;Drones;Optical imaging;Optical saturation;Optical variables measurement;Support vector machines;Urban areas},
doi={10.1109/NCVPRIPG.2015.7490049},
ISSN={},
month={Dec},}

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booktitle={2015 IEEE International Symposium on Robotics and Intelligent Sensors (IRIS)},
title={The development of AEDESTROYER : A mobile robot that search and destroy potential breeding habitat for aedes},
year={2015},
volume={},
number={},
pages={159-164},
keywords={diseases;mobile robots;Aegypti mosquito;aedestroyer;artificial intelligence;dengue haemorrhagic fever;mobile robot;Containers;Industries;Service robots;Servomotors;Switches;Variable speed drives;aedes breeding habitats;autonomous robot;dengue fever;robotic solution;robotics},
doi={10.1109/IRIS.2015.7451604},
ISSN={},
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Title = {Culex annulirostris breeding sites in urban areas: using remote sensing and digital image analysis to develop a rapid predictor of potential breeding areas},
Author = {Dale, PE and Morris, CD},
Number = {2 Pt 1},
Volume = {12},
Month = {June},
Year = {1996},
Journal = {Journal of the American Mosquito Control Association},

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ISSN = {8756-971X},
Pages = {316—320},
URL = {http://europepmc.org/abstract/MED/8827612}
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@Article{Chang2009,
author="Chang, Aileen Y.
and Parrales, Maria E.
and Jimenez, Javier
and Sobieszczyk, Magdalena E.
and Hammer, Scott M.
and Copenhaver, David J.
and Kulkarni, Rajan P.",
title="Combining Google Earth and GIS mapping technologies in a dengue surveillance system for developing countries",
journal="International Journal of Health Geographics",
year="2009",
month="Jul",
day="23",
volume="8",
number="1",
pages="49",
abstract="Dengue fever is a mosquito-borne illness that places significant burden on tropical developing countries with
unplanned urbanization. A surveillance system using Google Earth and GIS mapping technologies was developed in Nicaragua
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issn="1476-072X",
doi="10.1186/1476-072X-8-49",
url="https://doi.org/10.1186/1476-072X-8-49"
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booktitle={2011 Annual International Conference of the IEEE Engineering in Medicine and Biology Society},
title={Aedes aegypti egg counting system},
year={2011},
volume={},
number={},
pages={6810-6812},
keywords={biological techniques;biomedical equipment;biomedical measurement;diseases;man-machine systems;medical
computing;microorganisms;Aedes aegypti egg counting system;Aedes aegypti population survey;internet;man-machine
interface;optical scanning platform;Computers;Manuals;Monitoring;Optical imaging;Pattern
recognition;Software;Vectors;Aedes;Animals;Automation;Brazil;Environmental Monitoring;Equipment Design;Female;Image
Processing, Computer-Assisted;Models, Statistical;Mosquito Control;Oviposition;Ovum;Signal Processing,
Computer-Assisted;Software;User-Computer Interface},
doi={10.1109/IEMBS.2011.6091679},
ISSN={1094-687X},
month={Aug},}
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booktitle={2009 Annual International Conference of the IEEE Engineering in Medicine and Biology Society},
title={A new algorithm for segmenting and counting aedes aegypti eggs in ovitraps},
year={2009},
volume={},
number={},
pages={6714-6717},
keywords={biomedical optical imaging;diseases;image segmentation;medical image processing;Aedes aegypti eggs;Dengue
fever;color systems exploration;image processing;image segmentation;k-means clustering
algorithm;mosquito;ovitraps;Aedes;Algorithms;Animals;Cell Count;Cluster Analysis;Dengue;Geographic Information
Systems;Image Processing, Computer-Assisted;Mosquito Control;Ovum},
doi={10.1109/IEMBS.2009.5333759},
ISSN={1094-687X},
month={Sept},}
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@INPROCEEDINGS{7891835,
author={A. Sanchez-Ortiz and A. Fierro-Radilla and A. Arista-Jalife and M. Cedillo-Hernandez and M. Nakano-Miyatake and D.
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booktitle={2017 International Conference on Electronics, Communications and Computers (CONIELECOMP)},
title={Mosquito larva classification method based on convolutional neural networks},
year={2017},
volume={},
number={},
pages={1-6},
keywords={biology computing;diseases;feedforward neural nets;image classification;learning (artificial intelligence);Aedes
larvae;Mexico;convolutional neural networks;digital image processing;diseases;larva identification process;machine
learning;mosquito larva classification method;mosquito larvae localization;training;Diseases;Image classification;Image
segmentation;Machine learning;Microscopy;Neural networks;Training;Aedes;classification;convolutional neural
networks;larva;mosquito},
doi={10.1109/CONIELECOMP.2017.7891835},
ISSN={},
month={Feb},}
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@inproceedings{Ovadia:2017:LCM:3097983.3098204,
author = {Ovadia, Yaniv and Halpern, Yoni and Krishnan, Dilip and Livni, Josh and Newburger, Daniel and Poplin, Ryan and
Zha, Tiantian and Sculley, D.},
title = {Learning to Count Mosquitoes for the Sterile Insect Technique},
booktitle = {Proceedings of the 23rd ACM SIGKDD International Conference on Knowledge Discovery and Data Mining},
series = {KDD '17},
year = {2017},
isbn = {978-1-4503-4887-4},
location = {Halifax, NS, Canada},
pages = {1943--1949},
numpages = {7},
url = {http://doi.acm.org/10.1145/3097983.3098204},
doi = {10.1145/3097983.3098204},
acmid = {3098204},
publisher = {ACM},
address = {New York, NY, USA},
keywords = {counting from images, image modeling, quality assurance},
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