



VIRA KAVIR

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<https://virakavir.com/en>



Azam Karami

- ❖ Associate Professor, Head of Image Processing and Robotics Lab, Shahid Bahonar University, Iran (2014-Present)
- ❖ Founder, CEO, ViraKavir Company, Kerman, Iran (2018-Present)
- ❖ Postdoctoral Researcher, Department of Electrical Engineering, Purdue University, USA, 2018-2021
- ❖ Postdoctoral Researcher, Vision Lab, University of Antwerp, Belgium, 2014-2017
- ❖ Ph.D., Electrical Engineering-Telecommunications-Systems, Shiraz University, 2012
- ❖ Published more than 30 journal & 60 conference papers & 20 outstanding industrial projects

- ❖ Received the best project award Iran organization from Management of Electric Power Generation and Transmission (Tavanir), December 2019
- ❖ Selected as the top researcher, Ministry of Science, Research and Technology (Iran), March 2020
- ❖ Selected as the distinguished faculty member and industrial researcher, Shahid Bahonar University of Kerman, 2020 & 2021
- ❖ Patent A.Karami, "Laser Image Measuring Object Dimensions", G01B 00/11, 2019



Vira Kavir Team



Azam Karami
CEO

Associate Professor
PhD. Electrical Engineering
15 Years Experience
(Machine Learning,
Remote Sensing)



Mitra Peiro Hosseini
CTO

MS.c. Photonics
8 Years Experience
(Machine Learning,
Dataset Management)



Sharzad Faladat
**Head of Image Processing
Team**

Ph.D. student Optics and
Laser
10 Years Experience
(Design Optical Equipment,
Machine Learning)



Zahra Attari
Head of Aerospace

MS.c. of AI
7 Years Experience
(UAV Firmware
developer,
Machine Learning)

Zahra Sargolzadeh
Business Developer

MS.c. Accounting &
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8 Years Experience
(Accounting,
Dataset Expert)



Vira Kavir Team



Ali Mohammad Hossein Zadeh
CBO
Ph.D. Computer Science
20 Years Experience
(Web Developer)



Saleh Sarafriz
Head of Aerospace
MS.c. Aerospace
12 Years Experience
(UAS Design)



Ashkan Adibi
Head of Optic & Laser
Ph.D. Optics and Laser
15 Years Experience
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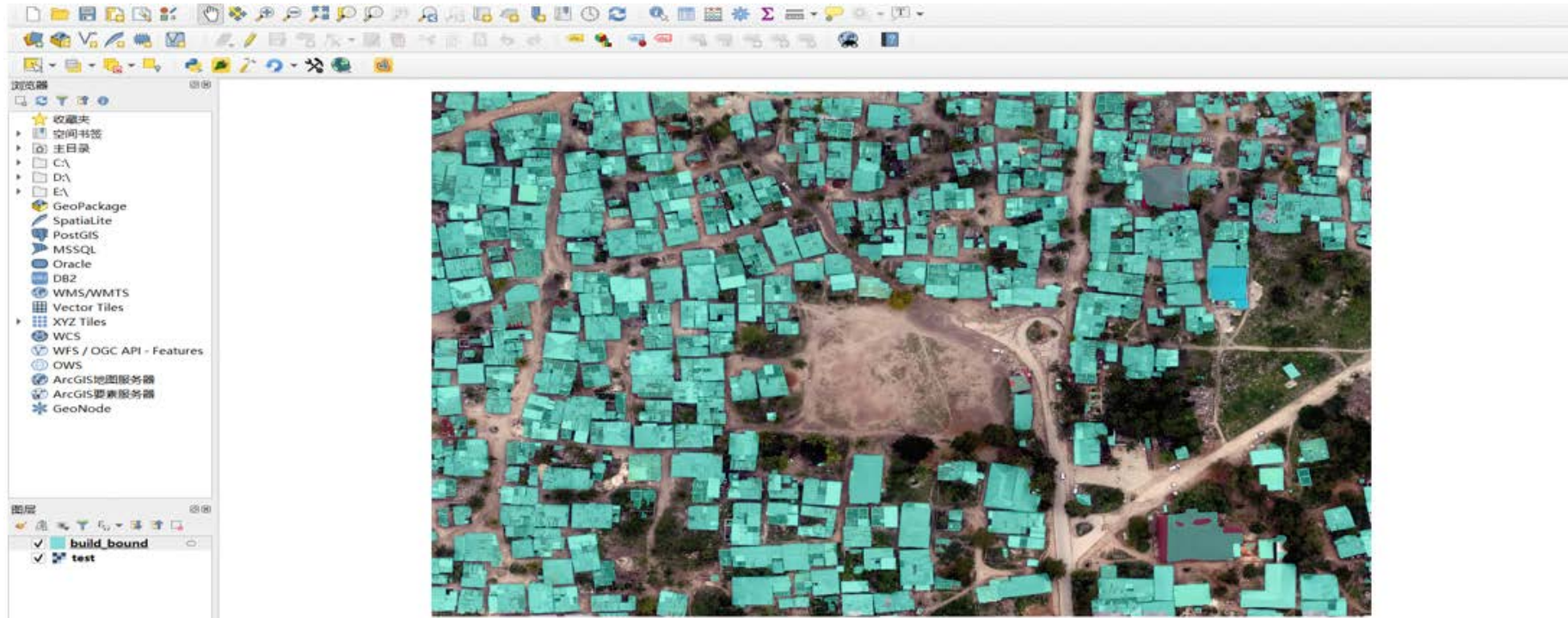
Amin Backtash
Drone Pilot
MS.c. Aerospace
6 Years Experience
(UAV Pilot)



Amin Dehghan
Drone Pilot
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3 Years Experience
(UAV Pilot)



Automatic Cartography Vira Software (ACVS)



ACVS

- ACVS is based on advanced object detection and segmentation algorithms.
- It can simply generate a map based on the features and details present in the orthophoto image by uploading it.
- It can detect the defects of pavement surface such as cracks.
- It has the ability to detect the position of lamppost, power lines, and pipelines.



ACVS



ACVS





ACVS



ACVS





ACVS





ACVS





ACVS





ACVS





ACVS





Applications

- Creating urban maps
- Fast and accurate design of gas, water and sewage pipelines, etc.
- Detecting surface damage of pavement
- Detecting the relative position of pipelines
- Detecting the relative position of lampposts and power lines
- Improving urban operations
- Planning and implementing urban projects
- Detecting changes in different areas over time
- Finding and identifying the location of damage in water, gas, etc. pipelines
- Use in emergency situations such as natural disasters or search and rescue operations

Applications





Advantages

- Fast and accurate map production
- Eliminating the need for manual mapping
- Improving the planning and implementation process of urban projects
- Improving the pipeline design process
- Accelerating the pipeline repair operations
- Accelerating the repair operations of lampposts and power lines
- Accelerating the rescue operations in disasters times
- Reducing the costs and time of maintaining infrastructures



Potential Customers

- Oil and gas companies
- Water and wastewater organizations
- Municipalities
- Environmental protection agencies
- Electricity authorities
- Transportation, housing, and urban development authorities



Thank You

Please contact us for more information

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