Irene Cheng's Email is locheng@ualberta.ca and Personal Website is https://webdocs.cs.ualberta.ca/~crome/mrc/people/irene_cheng/

Irene Cheng's Education or Academic background: Irene Cheng received her Post Doc in Computer and Information Science from University of Pennsylvania in 2007. Irene Cheng completed her PhD, MSc and BSc in Computing Science from the University of Alberta in 2005, 1999 and 1996, respectively.

Irene Cheng's research Areas or fields include Remote Sensing Data Science, Human Perception in Multimedia Computing, Multimedia Graphics & Visualization, Computer Vision, Pattern Recognition, Multimedia Communications

Irene Cheng's research Interests are in Multimedia computing, Human perception, remote sensing, data science, healthcare applications, adaptive learning.

Funded Projects of Irene Cheng are i) GANInSAR: Deep generative models for large-scale InSAR signal simulation. ii) Water Body Extraction: Deep convolutional networks for Sentinel-2 imagery.

Irene Cheng's Publications or research papers include **"GANInSAR: Deep Generative Modeling for Large-Scale InSAR Signal Simulation"**, **"Water Body Extraction from Sentinel-2 Imagery with Deep Convolutional Networks and Pixelwise Category Transplantation"**, **"Semi-supervised learning approach for localization and pose estimation of texture-less objects in cluttered scenes"**, **"Multi-step implicit Adams predictor-corrector network for fire detection"**, **"IGS-CMAES: A two-stage optimization for ground deformation and DEM error estimation in time series InSAR data"**, **"Marker-Less 3d Object Recognition and 6d Pose Estimation for Homogeneous Textureless Objects: An RGB-D Approach"**, **"DeepInSAR: a deep learning framework for SAR interferometric phase restoration and coherence estimation"**, **"A color intensity invariant low-level feature optimization framework for image quality assessment"**, **"Stochastic process for white matter injury detection in preterm neonates. NeuroImage"**. Full list available on ResearchGate or personal website.*

Irene Cheng serves as the **Scientific Director of the Multimedia Research Centre (MRC)** at the University of Alberta. Irene Cheng directs the **MSc with Specialization in Multimedia Program** (mmgrad.org). In addition, Irene Cheng is a **Research Affiliate at the Glenrose Rehabilitation Hospital.** Irene Cheng has also contributed to national research policy and funding evaluations as a committee member of the **NSERC Computer Science Evaluation Group.**