



UNIONE EUROPEA
Fondo europeo di sviluppo regionale



REPUBBLICA ITALIANA



REGIONE AUTONOMA DI SARDEGNA
REGIONE AUTONOMA DELLA SARDEGNA



Ricerca e sviluppo di una soluzione innovativa per il miglioramento della capacità di diagnosi e stadiazione ecografica del cancro del retto



Salvatore Mario Carta
University of Cagliari



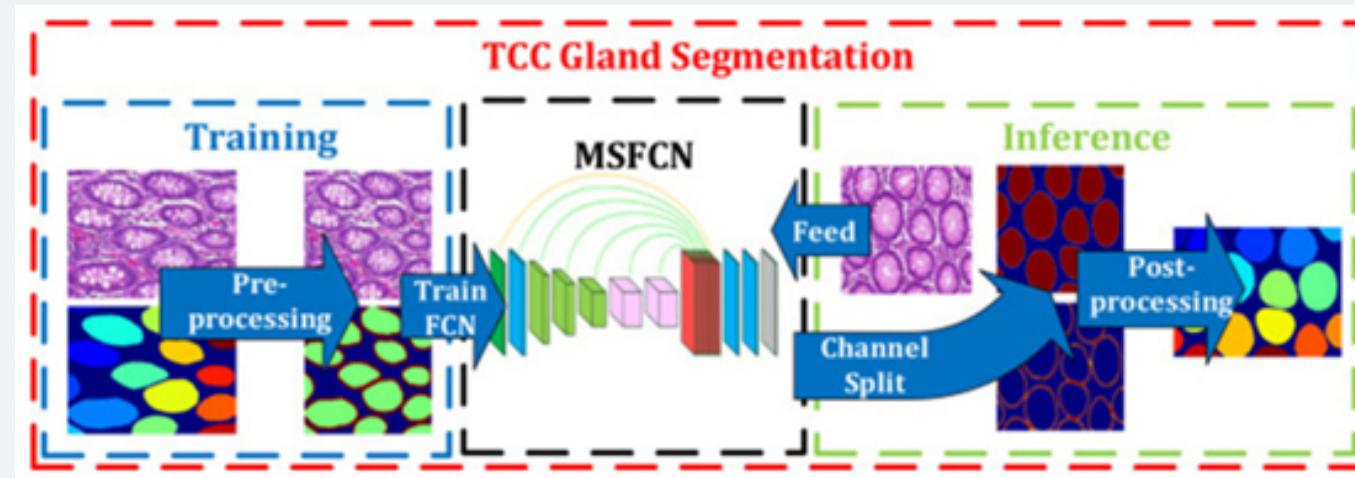
Silvio Barra
University of Naples



Sebastian Alessandro Podda
University of Cagliari

Activities

- AI for anomalous tissue detection, via semi-supervised learning approaches
- AI for cancer image segmentation
- AI for tumor classification
- AI for prognosis prediction
- Development of a Human Computer Interaction system
- Deploy on a Software/Hardware infratructure



References

1. Colorectal Cancer Classification using Deep Convolutional Networks :*An Experimental Study*
2. Automated colon cancer detection using hybrid of novel geometric features and some traditional features
3. Tumor Identification in Colorectal Histology Images Using a Convolutional Neural Network
4. Classifications of Multispectral Colorectal Cancer Tissues Using Convolution Neural Network
5. Deep Learning for Classification of Colorectal Polyps on Whole-slide Images
6. Current Trends of Artificial Intelligence for Colorectal Cancer Pathology Image Analysis: A Systematic Review

Related Students Activities

- Omar Filali
 - Starting...
- Andrea Deidda
 - Reading papers (1-6)
- Mattia Carta
 - Papers read
 - Looking for datasets

Datasets