sagivtech MVC 2024

CONFLIBNCE

Patents: 10,582,189 - 11,158,060 - 11,176,675 - 11,328,822 - 11,298,062 - 11,347,831 - 17/890,289

THE PROBLEM Diagnostic Errors \$100B in cost savings with improved Dx accuracy \$ Mis-Diagnoses (FP) & Missed Diagnoses (FN)

40 Million People Vorldwide

12M Americans affected annually

Delayed diagnoses accounts for 10% of patient deaths

Globally, errors occur at a rate of 3%-5%

What is Deep Learning for <u>ALL</u>?

x Zlim n2-x

Human-in-the-Loop

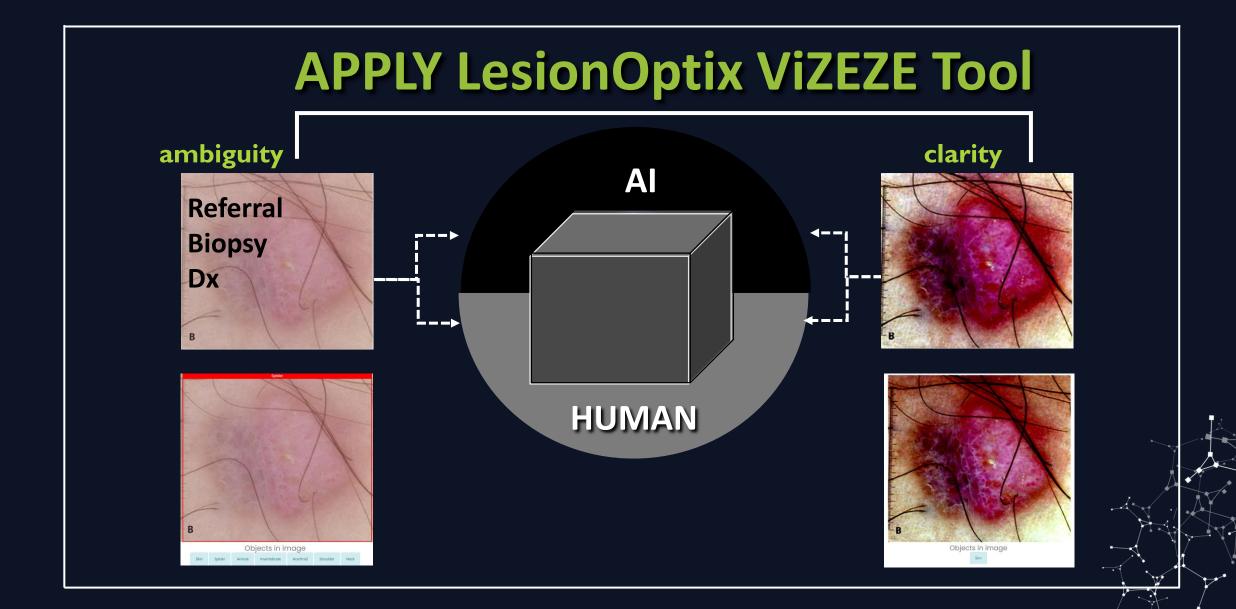
INCREASE MEANING FOR BOTH HUMANS AND AI

Our Appr	oach
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ENHANCING image inputs

Advance Image Intelligence

BUILDING knowledge outputs



Deep Learning for <u>ALL</u> – UNLOCK Hidden Data ASK Better Questions REFINE Ground Truths REDUCE Diagnostic Errors ↓ Mis-Dx (FN) \downarrow Missed Dx (FP)



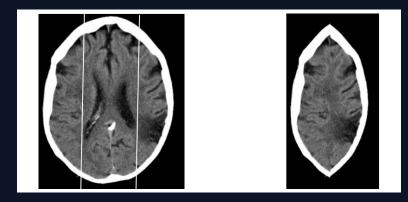


<u>Serial COlor REduction</u> Segmentation (SCORES)



Figure-Ground Contexts

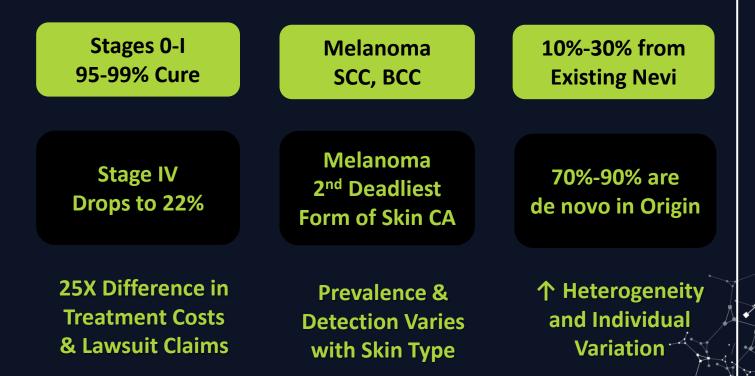
Stitch n' Peel (SnP)



Reduces Volume & Complexity of Pixel Content

DERMATOLOGY - SKIN CANCERS Early Detection



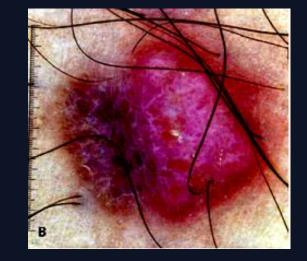


RELATIONSHIPS – FEATURES – LANGUAGE – KNOWLEDGE

ABCDE+EFG

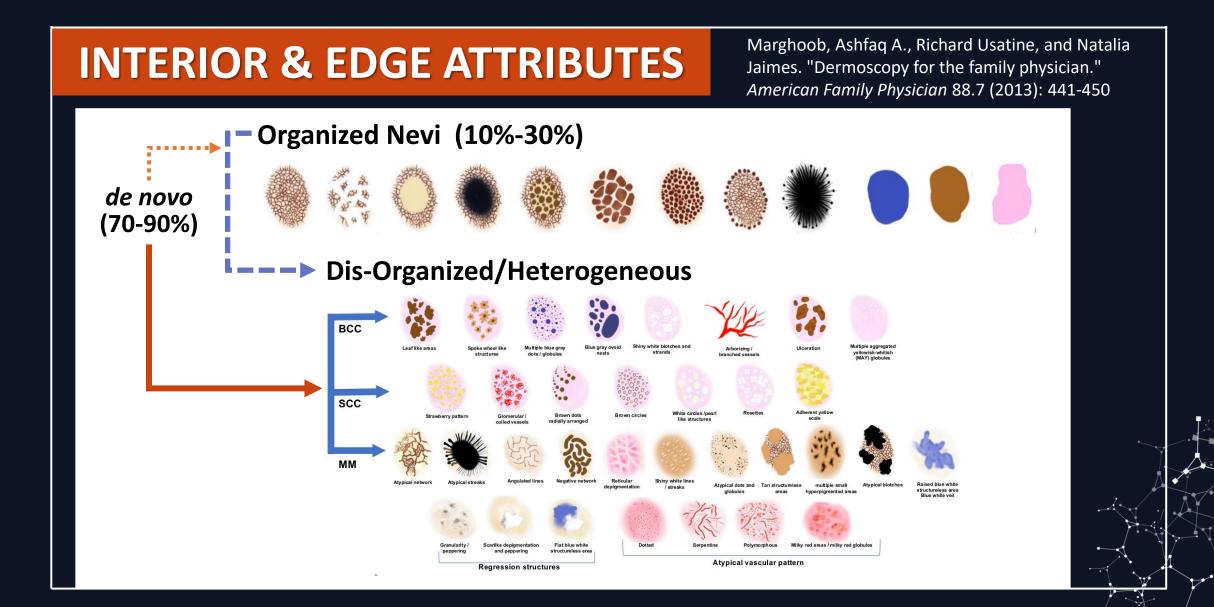
Asymmetry Border Color Different

Evolving





EFG (Elevated, Firm, Growing)



Deep Learning for <u>ALL</u> Early Disease Detection

- BUILDING IMAGE INTELLIGENCE
- ASKING BETTER...DIFFERENT QUESTIONS
- EVOLVING GROUND TRUTHS
- DECREASING DIAGNOSTIC ERRORS

LesionOptix IMAGE INTELLIGENCE TOOLS

GUIDING PRINCIPLES/RULES





ENHANCE

visualization/detection



REDUCE

image complexity & pixel volume



LEVERAGE embedded Gestalt properties figure & ground - symmetry

ADVANCE

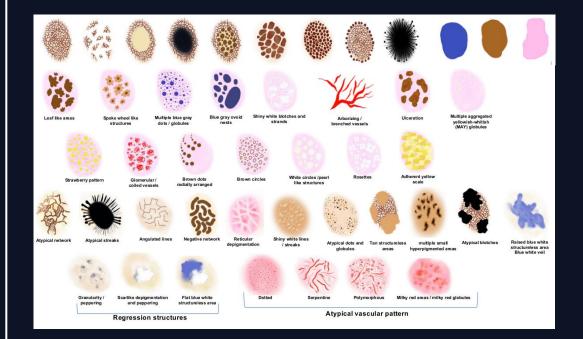
perceptual & cognitive capacity



COMBINE ambiguity & clarity

INCREASE MEANING FOR <u>BOTH</u> HUMANS AND AI

Skin Lesion Activity Cluster || Sequence || Transform





https://conflu3nce.com/tada_activity.htm

CONFLU3NCE TEAM

Tami Ellison

TamiE@conflu3nce.com https://conflu3nce.com p: 050 228 3877



Thank you



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