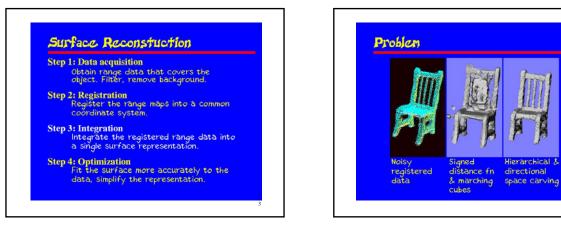
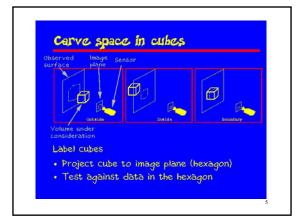
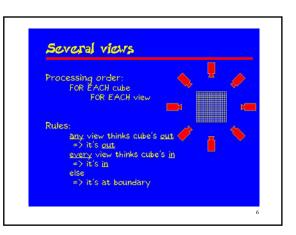
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from	Range	z and C	olor Dafa'
	Kari	Pulli	UW
	Michael		MSR
	Tom	Duchamp	UW
	Hugues		MSR
		McDonald	UW
		Shapiro	UW
	Werner	Stuetzle	UW
	UW =	University of W	
		Seattle, WA US	A

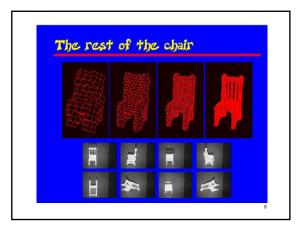


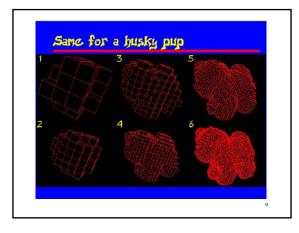


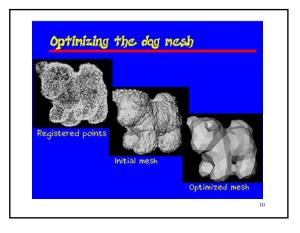


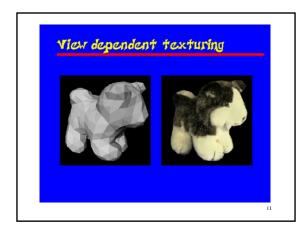


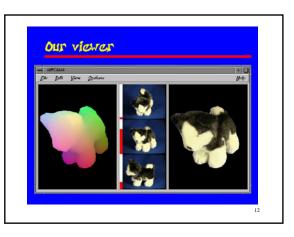




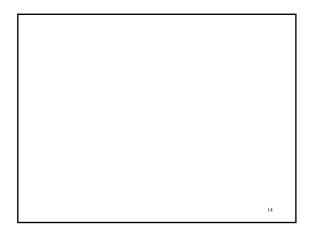












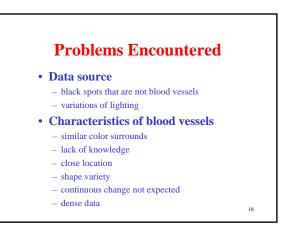
## Reconstruction of Blood Vessel Trees from Visible Human Data

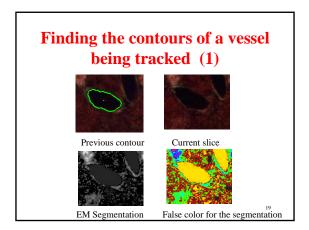
Zhenrong Qian and Linda Shapiro Computer Science & Engineering Department University of Washington

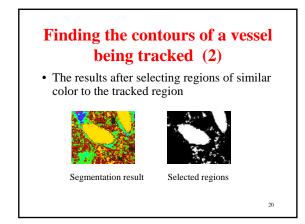
15

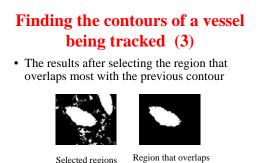
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most

21

Find the contours of a vessel being tracked (4)

• The results after morphology to close holes and remove noise

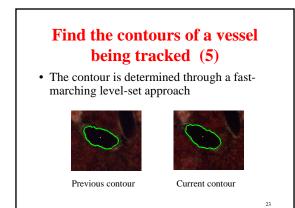


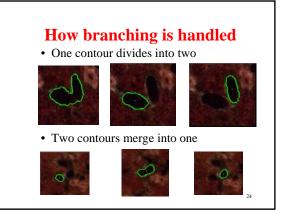


After noise removal

Selected region

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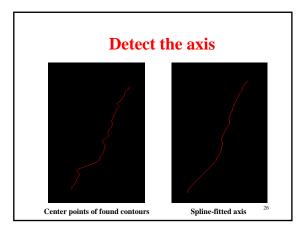


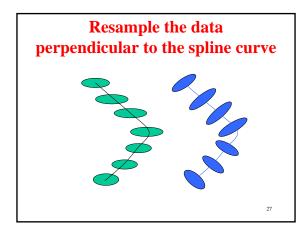




- **Track** the axis through the center points of found contours
- Fit a spline curve
- **Resample** the data perpendicular to the spline curve
- Use the resampled contours for model creation

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- The user **selects** a starting point
- The program automatically **tracks** the selected vessel and any branches it finds
- The program creates a **generalized cylinder** representation of the vessel tree

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• The user may select more starting points

