

TASK TAXONOMY

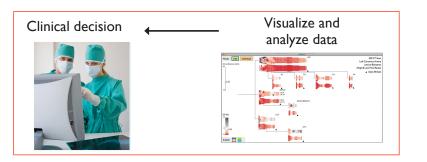
ABSTRACTION

find extrema

find extrema

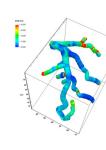
FORMATIVE QUALITATIVE STUDY

- Semi-structured interviews
- 10 medical doctors and researchers
- Brigham & Women's Hospital (Boston, MA)



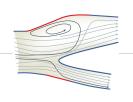
TASK TAXONOMY

Таѕк	Abstraction
"Identify regions of low ESS"	find extrema
"Identify stenosis or blockage"	find extrema
"View all ESS data for patterns"	cluster



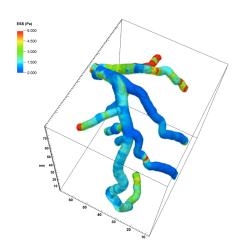
TASK TAXONOMY

Таѕк	Abstraction
"Identify regions of low ESS"	find extrema
"Identify stenosis or blockage"	find extrema
"View all ESS data for patterns"	cluster
"Study blood flow velocity patterns"	find anomalies
"Identify regions of blood recirculation"	find anomalies
"Investigate other physical variables of blood flow"	find anomalies



High ESS

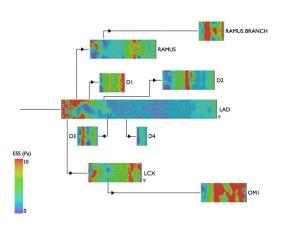
3D vs. 2D



Task

"Identify regions of low ESS"

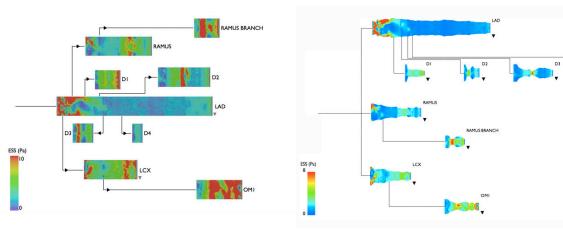
"Identify stenosis or blockage"



TASK TAXONOMY

Таѕк	Abstraction		Rese
"Identify regions of low ESS"	find extrema	×	Х
"Identify stenosis or blockage"	find extrema	X	×
"View all ESS data for patterns"	cluster	х	×
"Study blood flow velocity patterns"	find anomalies		×
"Identify regions of blood recirculation"	find anomalies		×
"Investigate other physical variables of blood flow"	find anomalies		×

LAYOUT AND PROJECTIONS



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Таѕк	ABSTRACTION	-		Таѕк	ABSTRACTION
				"Identify regions of low ESS"	find extrema
Tas	κ Ταχονο	ΦΥ		TAS	κΤάχονο
Таѕк	ABSTRACTION	-		Таѕк	ABSTRACTION
"Identify regions of low ESS"	find extrema			"Identify regions of low ESS"	find extrema
		1			
"Identify stenosis or blockage"	find extrema	_		"Identify stenosis or blockage"	find extrema
"Identify stenosis or blockage" "View all ESS data for patterns"	find extrema cluster			"View all ESS data for patterns"	find extrema cluster
	cluster			"View all ESS data for patterns" "Study blood flow velocity pattern "Identify regions of blood	cluster
"View all ESS data for patterns"	cluster ns" find anomalies			"View all ESS data for patterns" "Study blood flow velocity pattern "Identify regions of blood recirculation"	cluster s" find anomalies find anomalies
"View all ESS data for patterns" "Study blood flow velocity pattern	cluster ns" find anomalies	ΜΥ		"View all ESS data for patterns" "Study blood flow velocity pattern "Identify regions of blood recirculation" 3	cluster s" find anomalies
"View all ESS data for patterns" "Study blood flow velocity pattern TAS TASK	cluster Is" find anomalies K TAXONO ABSTRACTION	MY Clinical	Research	"View all ESS data for patterns" "Study blood flow velocity pattern "Identify regions of blood recirculation"	cluster s" find anomalies find anomalies
"View all ESS data for patterns" "Study blood flow velocity pattern	cluster ns" find anomalies	ΜΥ		"View all ESS data for patterns" "Study blood flow velocity pattern "Identify regions of blood recirculation" 3	cluster s" find anomalies find anomalies
"View all ESS data for patterns" "Study blood flow velocity pattern "TASK "Identify regions of low ESS"	cluster as" find anomalies K TAXONO ABSTRACTION find extrema	MY Clinical X	Research	"View all ESS data for patterns" "Study blood flow velocity pattern "Identify regions of blood recirculation" 3	cluster s" find anomalies find anomalies
"View all ESS data for patterns" "Study blood flow velocity pattern TASK "Identify regions of low ESS" "Identify stenosis or blockage"	cluster ns" find anomalies K TAXONO ABSTRACTION find extrema find extrema cluster	MY Clinical X X	Research X X	"View all ESS data for patterns" "Study blood flow velocity pattern "Identify regions of blood recirculation" 3	cluster s" find anomalies find anomalies
"View all ESS data for patterns" "Study blood flow velocity pattern TASK "Identify regions of low ESS" "Identify stenosis or blockage" "View all ESS data for patterns"	cluster ns" find anomalies K TAXONO ABSTRACTION find extrema find extrema cluster	MY Clinical X X	Research X X X	"View all ESS data for patterns" "Study blood flow velocity pattern "Identify regions of blood recirculation" 3	cluster s" find anomalies find anomalies

