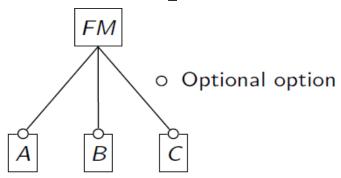
Warm-up Phase

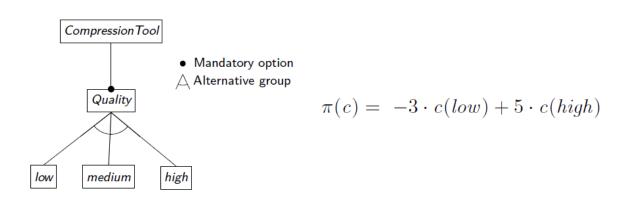


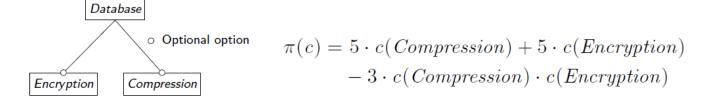
- Options: $\{A, B, C\} \equiv \mathcal{O}$
- Configurations: C is the set of all configurations, where $c \in C$, $c : O \to \{0, 1\}$ Example: c(A) = 0 iff option A is deselected in configuration c.
- Performance-Influence Model: $\pi: \mathcal{C} \to \mathbb{R}$

Examples:

$$\pi_1(c) = \underbrace{3 \cdot c(A) + 6 \cdot c(B)}_{coeff. option coeff. option coeff. option coeff. option coeff. options}_{coeff. option coeff. option coeff. option coeff. options}$$

$$\pi_2(c) = 1 \cdot c(A) + 5 \cdot c(B) - 6 \cdot c(C) + 7 \cdot c(A) \cdot c(B)$$





Model 1: Simple Performance Model

•	Ra	d	ar	Ch	a	rt

1. Which is the most relevant configuration option/interaction?

Answer:

How easy/difficult it is to derive the answer?

Very Easy	Easy	Neither	Difficult	Very Difficult

Comments:

- Text Plot
 - 1. Which is the most relevant configuration option/interaction?

Answer:

How easy/difficult it is to derive the answer?

Very Easy	Easy	Neither	Difficult	Very Difficult

Comments:

- Ratio Plot
 - 1. Which is the most relevant configuration option/interaction?

Answer:

How easy/difficult it is to derive the answer?

Very Easy	Easy	Neither	Difficult	Very Difficult

Model 2: Complex Performance Model

•	R	a	d	a	r	C	h	а	rt

1. Which is the most relevant configuration option/interaction?

Answer:

How easy/difficult it is to derive the answer?

Very Easy	Easy	Neither	Difficult	Very Difficult

Comments:

Text Plot

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Answer:

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Very Easy	Easy	Neither	Difficult	Very Difficult

Comments:

• Ratio Plot

1. Which is the most relevant configuration option/interaction?

Answer:

How easy/difficult it is to derive the answer?

Very Easy	Easy	Neither	Difficult	Very Difficult

Model 1: Simple Performance Model

•	Ra	daı	r Ch	art

2. Which is the configuration option/interaction that leads to highest performance increase or decrease?

Answer: Option that increases performance:

Option that decreases performance:

How easy/difficult it is to derive the answer?

Very Easy	Easy	Neither	Difficult	Very Difficult
		_		

Comments:

- Text Plot
 - 2. Which is the configuration option/interaction that leads to highest performance increase or decrease?

Answer: Option that increases performance:

Option that decreases performance:

How easy/difficult it is to derive the answer?

Very Easy	Easy	Neither	Difficult	Very Difficult

Comments:

- Ratio Plot
 - 2. Which is the configuration option/interaction that leads to highest performance increase or decrease?

Answer: Option that increases performance:

Option that decreases performance:

How easy/difficult it is to derive the answer?

Very Easy	Easy	Neither	Difficult	Very Difficult

Model 2: Complex Performance Model

•	Rad	lar (Cha	art

2. Which is the configuration option/interaction that leads to highest performance increase or decrease?

Answer: Option that increases performance:

Option that decreases performance:

How easy/difficult it is to derive the answer?

Very Easy	Easy	Neither	Difficult	Very Difficult

Comments:

- Text Plot
 - 2. Which is the configuration option/interaction that leads to highest performance increase or decrease?

Answer: Option that increases performance:

Option that decreases performance:

How easy/difficult it is to derive the answer?

Very Easy	Easy	Neither	Difficult	Very Difficult

Model 1: Simple Performance Model

•	Ra	da	ır (۲ŀ	าล	rt

1. Which is the configuration option/interaction where the performance-influence models differs the most?

Answer:

How easy/difficult it is to derive the answer?

Very Easy	Easy	Neither	Difficult	Very Difficult

Comments:

- Text Plot
 - 1. Which is the configuration option/interaction where the performance-influence models differs the most?

Answer:

How easy/difficult it is to derive the answer?

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Comments:

- Ratio Plot
 - 1. Which is the configuration option/interaction where the performance-influence models differs the most?

Answer:

How easy/difficult it is to derive the answer?

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Model 2: Complex Performance Model

•	Rac	dar C	:hart

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Answer:

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Comments:

Text Plot

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Comments:

• Ratio Plot

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Answer:

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Model 1: Simple Performance Model

- Radar Chart
 - 2. Which is the configuration option/interaction where the performance-influence models are most similar?

Answer:

How easy/difficult it is to derive the answer?

Very Easy	Easy	Neither	Difficult	Very Difficult

Comments:

- Text Plot
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Answer:

How easy/difficult it is to derive the answer?

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- Ratio Plot
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Model 2: Complex Performance Model

•	Ra	da	r Cl	ha	rt

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- Ratio Plot
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How easy/difficult it is to derive the answer?

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Model 1: Simple Performance Model

•	Ra	dar	Ch	art

1. Which pair of performance-influence models share a large set of influences?

Answer:

How easy/difficult it is to derive the answer?

Very Easy	Easy	Neither	Difficult	Very Difficult

Comments:

• Text Plot

1. Which pair of performance-influence models share a large set of influences?

Answer:

How easy/difficult it is to derive the answer?

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Comments:

Ratio Plot

1. Which pair of performance-influence models share a large set of influences?

Answer:

How easy/difficult it is to derive the answer?

Very Easy	Easy	Neither	Difficult	Very Difficult
	_			

Model 2: Complex Performance Model

•	Ra	dar	Ch	art

1. Which pair of performance-influence models share a large set of influences?

Answer:

How easy/difficult it is to derive the answer?

Very Easy	Easy	Neither	Difficult	Very Difficult

Comments:

Text Plot

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Comments:

• Ratio Plot

1. Which pair of performance-influence models share a large set of influences?

Answer:

How easy/difficult it is to derive the answer?

Very Easy	Easy	Neither	Difficult	Very Difficult

Model 1: Simple Performance Model

•	Ra	dar	Ch	art

2. Which pair of performance-influence models share a large set of influences?

Answer:

How easy/difficult is it to derive the answer?

Very Easy	Easy	Neither	Difficult	Very Difficult

Comments:

- Text Plot
 - 2. Which pair of performance-influence models share a large set of influences?

Answer:

How easy/difficult is it to derive the answer?

Very Easy	Easy	Neither	Difficult	Very Difficult

Comments:

- Ratio Plot
 - 2. Which pair of performance-influence models share a large set of influences?

Answer:

How easy/difficult is it to derive the answer?

Very Easy	Easy	Neither	Difficult	Very Difficult

Many Performance Influence Models

Model 2: Complex Performance Model

•	Ra	dar	Ch	art

2. Which pair of performance-influence models share a large set of influences?

Answer:

How easy/difficult is it to derive the answer?

Very Easy	Easy	Neither	Difficult	Very Difficult

Comments:

- Text Plot
 - 2. Which pair of performance-influence models share a large set of influences?

Answer:

How easy/difficult is it to derive the answer?

Very Easy	Easy	Neither	Difficult	Very Difficult

Comments:

- Ratio Plot
 - 2. Which pair of performance-influence models share a large set of influences?

Answer:

How easy/difficult is it to derive the answer?

Very Easy	Easy	Neither	Difficult	Very Difficult

Feedback on the Interview

Were the questions in this interview meaningful?

Strongly Agree	Agree	Neither	Disagree	Strongly Disagree

Can you think about other use cases where visualizing performance-influence models is useful?