

FEEDBACK ORCHESTRATION

Structuring Feedback for Facilitating Reflection and Revision in Writing

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Motivation

- Writing is rewriting. Good revision relies on not only **high-quality feedback** but also **effective revision behaviors**.
- While most studies focus on improving feedback generation process, a lack of research focuses on exploring ways to **facilitate revision behaviors**.

Revision Practice: Novices vs Experts

Novices lack abilities to reflect on the high-level goals and revise structurally

Novice practice

- Novices usually dealt with feedback in a **non-structured** way.
- Novices mainly focused on fixing **low-level issues** instead of high-level issues.

Expert practice

- Experts start with defining the **rhetorical problems**, set the **goals**, and break them into **actionable steps**.
- Experts **reflect and revise** their writing in a **recursive, hierarchical** way.

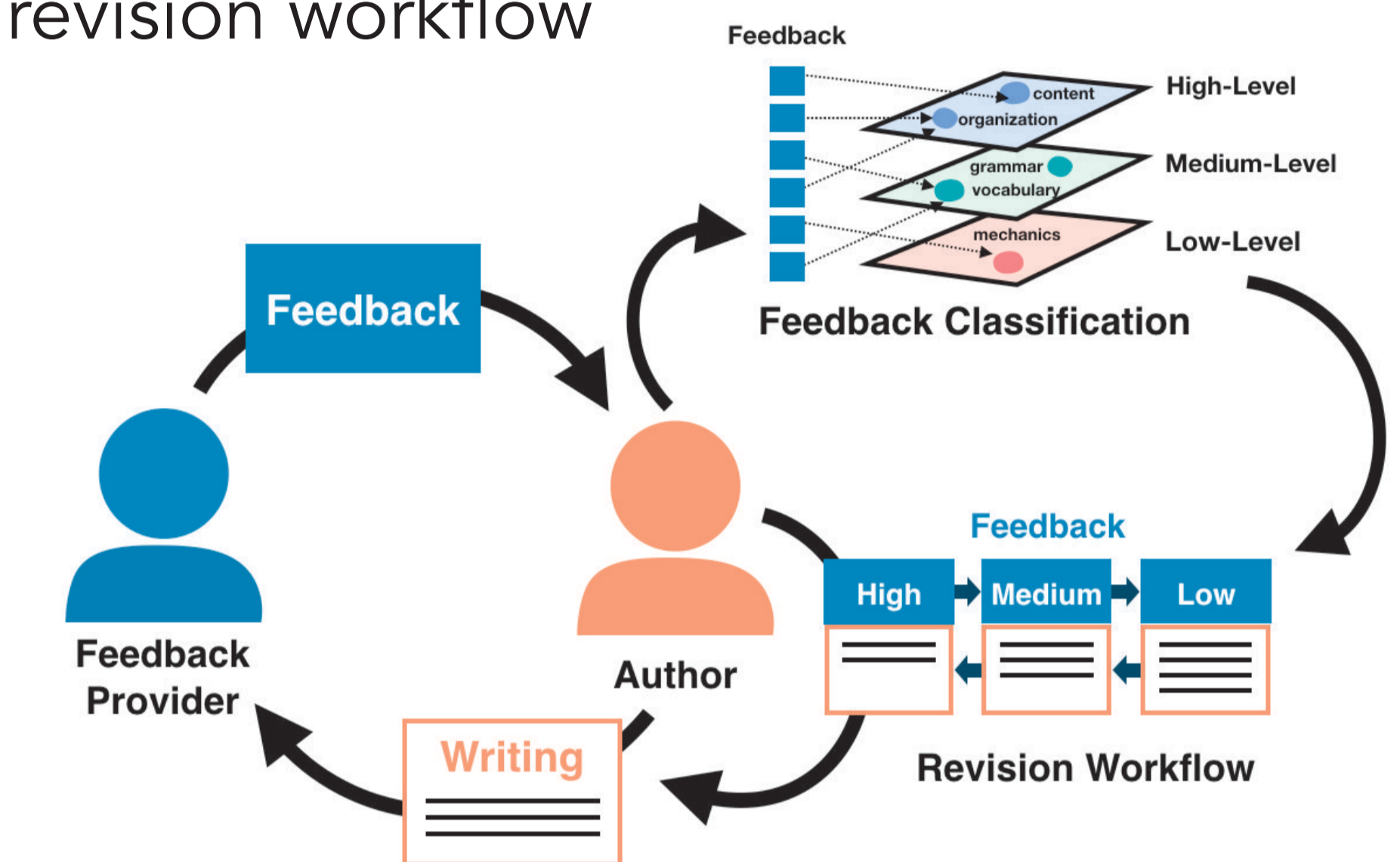
Feedback Orchestration

Goals: to **guide** writers to **reflect and revise** in an **structured way**

- (1) **Collect:** collect feedback from feedback providers
- (2) **Classify:** classify unstructured feedback into three categories
- (3) **Revise:** revise in a flexible revision workflow

Design Considerations

- A rhetorical structure
- Meta-feedback
- Flexible revision workflow



Discussion from a Pilot Study

- (1) Structured feedback helps writers **filter information** and **identify writing weaknesses**, and then **promotes learning behaviors**.
- (2) Flexible revision workflows support novice writers to **explore** diverse revision strategies and **develop** their **suitable strategies**.
- (3) **Sequential revision workflows** guide writers to **think and revise** in a **structured** way.
- (4) Our system enables opportunities for applying **diverse strategies**.

References

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