True Seams: Modeling Seams in Digital Garments

Supplementary Document

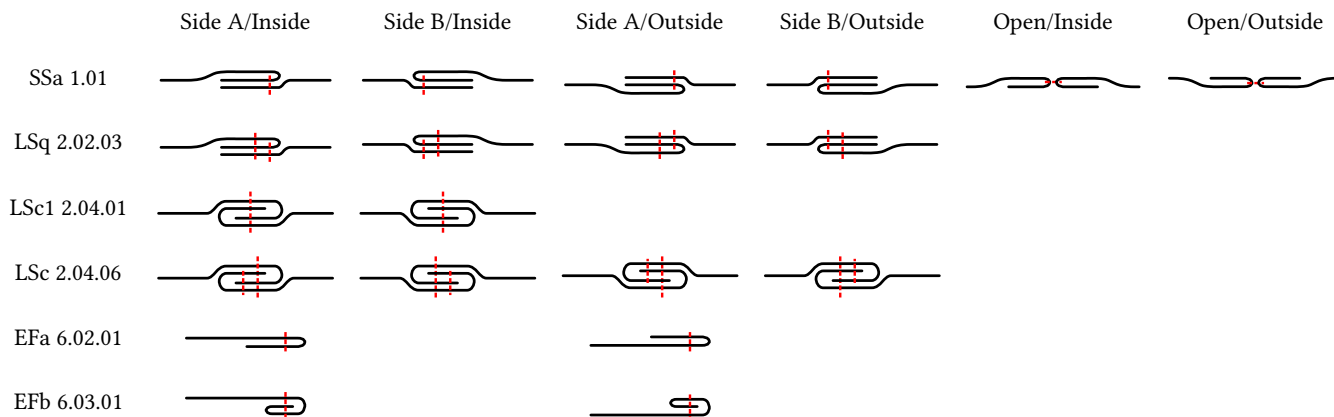ALEJANDRO RODRÍGUEZ and GABRIEL CIRIO, SEDDI, Spain

Fig. 1. Illustration of the different seams used in this work. Each row is a seam type, and each column is a *towards/direction* configuration. Impossible seam configurations, or redundant configurations due to symmetry are omitted (e.g. Side A/Inside and Side B/Outside would be equivalent for seam LSc1 2.04.01).

SEAM TYPES AND CONFIGURATIONS

Modern definition of seams is based on ISO 4916:1991 [ISO 4916:1991 1991]. The different seam classes are detailed in the ISO standard, but comprehensible descriptions are also found in other online sources, such as the documentation provided by A&E [A&E 2022] and Coats [Coats 2022].

Aside from the seam type, there are additional parameters for some of the seam types to define specific variations. The seam allowance *torwards* parameter defines which way the seam allowance is folded. It can be folded towards side A, towards side B or, in some cases, it can be folded open, i.e., the seam allowance of each side folded towards its own side. The seam allowance *direction* parameter defines whether the folding is to be done facing the inside of the fabric pieces or the outside.

Figure 1 shows all possible variations of the seams used in our work. We name them using the Federal Standard 751a code [sta 1965], still used by practitioners, followed by the ISO standard code.

REFERENCES

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ISO 4916:1991. 1991. *Textiles – Seam types – Classification and terminology*. Standard. International Organization for Standardization, Geneva, CH.

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