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**Algorithm 1:** Numerical algorithm using subgradient method

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**Input:**  $\mathbf{X}, \mathbf{Y}, \lambda$

**Output:**  $\mathbf{A}, \mathbf{B}$

**while** *value of objective function (8) not converged* **do**  
    For fixed  $\mathbf{B}$ , solve  $\mathbf{A}$  by SVD as in Procrustes problem indicated by (9).  
    **while**  $\mathbf{B}$  *not converged* **do**  
        **for each**  $l$  **do**  
            └ solve  $\mathbf{B}^l$  by (13)  
            └ check whether  $\mathbf{B}$  has converged  
    └ check whether objective function has converged

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