

## Convexification for data fitting

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**Erratum to: J Glob Optim**  
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In the original publication under the section: **4 Convexity region**, the Eqs. 6 and 7 reads as

$$\begin{aligned} \sum_{k=1}^K \alpha_k B_k(w) &= \mathcal{F}_K(w) \mathcal{B}_K(w) \mathcal{F}_K^T(w) \\ \mathcal{F}_K(w) &:= [F_1(w) \quad \cdots \quad F_K(w)] \\ \mathcal{A}_K(w) &:= \text{diag}[\alpha_1(w)Q \quad \cdots \quad \alpha_K(w)Q] \end{aligned} \quad (6)$$

and

$$\begin{aligned} \sum_{k=1}^K \alpha_k A_k(w) &= \mathcal{D}_K(w) \mathcal{A}_K(w) \mathcal{D}_K^T(w) \\ \mathcal{D}_K(w) &:= [D_1(w) \quad \cdots \quad D_K(w)] \\ \mathcal{A}_K(w) &:= \text{diag}[\alpha_1(w) \quad \cdots \quad \alpha_K(w)] \end{aligned} \quad (7)$$

are incorrect.

The correct version of Eqs. 6 and 7 are given below.

$$\begin{aligned} \sum_{k=1}^K \alpha_k(w) B_k(w) &= \mathcal{F}_K(w) \mathcal{B}_K(w) \mathcal{F}_K^T(w) \\ \mathcal{F}_K(w) &:= [F_1(w) \quad \cdots \quad F_K(w)] \\ \mathcal{B}_K(w) &:= \text{diag}[\alpha_1(w)Q \quad \cdots \quad \alpha_K(w)Q] \end{aligned} \quad (6)$$

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and

$$\sum_{k=1}^K \alpha_k(w) A_k(w) = \mathcal{D}_K(w) \mathcal{A}_K(w) \mathcal{D}_K^T(w)$$
$$\mathcal{D}_K(w) := [D_1(w) \ \cdots \ D_K(w)]$$
$$\mathcal{A}_K(w) := \text{diag}[\alpha_1(w) \ \cdots \ \alpha_K(w)]$$
(7)