CORRIGENDUM TO “METHODS FOR SOLVING SOME PARAMETRIC PROBLEMS OF ALGEBRA”

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*An error in the previous author's paper is indicated, and a correct approach to solving the related problem is presented.
Bibliography: 1 title.*

Remark 2 in Sec. 5.1 of the author's paper [1] contains an erroneous assertion concerning the method for computing an “explicitly polynomial” representation of a matrix $X = F^{-1}G$ (F and G are multiparameter polynomial or rational matrices, and F is regular) in the case where the columns of the matrix G are linear combinations with polynomial coefficients of the columns of the matrix F .

However, the assertion concerning the computation of an “explicitly polynomial” representation of a vector $\mathbf{x} = F^{-1}\mathbf{g}$, where $\mathbf{g}$ is a linear combination with polynomial coefficients of the columns of the matrix F , is correct. Therefore, an “explicitly polynomial” representation of a matrix $X = F^{-1}G$ can be obtained by computing the minimal right MFDs $\mathbf{x}_j = \mathbf{s}_{R_j} \mathbf{t}_{R_j}^{-1}$ of the vectors $\mathbf{x}_j = F^{-1}\mathbf{g}_j$, where $\mathbf{g}_j$ and $\mathbf{x}_j$, $j = 1, \dots, p$, are the columns of the matrices G and X , respectively.

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REFERENCES

1. V. B. Khazanov, “Methods for solving some parametric problems of algebra,” *Zap. Nauchn. Semin. POMI*, **323**, 164–181 (2005). [English translation: *J. Math. Sci.*, **137**, 4852–4861 (2006)]

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