A note to my paper “Generalized equivalence of collections of matrices and common divisors of matrices”

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ABSTRACT. We correct some misprints and other oversights in the paper mentioned in the title.

In this note we correct some misprints and other oversights in the paper [1].

On p. 86 in [1], line 3 a label (2) of the formula

\[ D^A = \Phi \Psi = \text{diag}(\varphi_1, \ldots, \varphi_s, 0, \ldots, 0) \text{diag}(\psi_1, \ldots, \psi_t, 0, \ldots, 0) \]

was dropped. So this formula must have number (2). Then beginning from p. 87 the numbers of formulas (2) - (8) should be replaced by (3) - (9). Note that in the text of the paper the citations on the formulas do not change.

In the statements of theorems 1, 3 and of corollaries 1, 2 it should mean that \( \Psi = \text{diag}(\psi_1, \ldots, \psi_t, 0, \ldots, 0) \) is d-matrix, i.e. \( \psi_1 | \psi_2 | \cdots | \psi_t \). Thus in Theorem 1 the phrase "Let \( A \in M(m, n, R) \), \( m \leq n \)" should be prolonged as follows: "and the canonical diagonal form \( D^A \) of the matrix \( A \) can be represented in the form (2), where \( \Psi \) is d-matrix, \( t \leq s \) and \( \text{rang} \Phi = r \) or \( \text{rang} \Phi = m \) and \( \varphi_{r+1} = \varphi_{r+2} = \cdots = \varphi_m \)." Also in Theorem 3 after the formula (6) "\( D^A = \Phi \Psi, D^A = \Phi \Lambda \)" it should be written "where \( \Psi \) is d-matrix and \( s = r \) or \( s = m \) and \( \varphi_{r+1} = \varphi_{r+2} = \cdots = \varphi_m \)."

References

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