# 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

$$D^A = \Phi\Psi = \mathrm{diag}(\varphi_1, \ldots, \varphi_s, 0, \ldots, 0)\mathrm{diag}(\psi_1, \ldots, \psi_t, 0, \ldots, 0)$$

was dropped. So this formula must have number (2). Then beginning from p. 87 the numbers of formulas (2) - (8) should be replased 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 $\Psi = diag(\psi_1, \ldots, \psi_t, 0, \ldots, 0)$ 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 $rang\Phi = r$ or $rang\Phi = m$ 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 writed "where $\Psi$ is $d$-matrix and $s = r$ or $s = m$ and $\varphi_{r+1} = \varphi_{r+2} = \cdots = \varphi_m$."

## References

[1] V. M. Petrychkovych, *Generalized equivalence of collections of matrices and common divisors of matrices*, Algebra and Discrete Mathematics, N. 2, 2004, pp. 84-91.

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