

Erratum: Implementable Mechanisms to Coordinate Horizontal Alliances

Barrie R. Nault • Rajeev K. Tyagi

Faculty of Management, University of Calgary, Calgary, Alberta, Canada, and
Fisher College of Business, The Ohio State University, Columbus, Ohio 43210
Graduate School of Management, University of California, Irvine, California 92697
nault@ucalgary.ca • rktyagi@uci.edu

Due to an error in typesetting, Equations (6)–(11) were misnumbered in the original printing of this paper in *Management Science*, Vol. 47 No. 6, June 2001, pp. 787–799. Equations (6)–(11) are reprinted and correctly numbered below.

$$\begin{aligned}
 & \frac{dV(\mathbf{e}(t, r), \hat{x}(\cdot))}{dt} \\
 &= -[d_D(\cdot) + d_E(\cdot)]f(\hat{x}(\cdot))\frac{\partial \hat{x}(\cdot)}{\partial t} \\
 &\quad - \int_{\hat{x}(\cdot)}^{\bar{x}} \left[\frac{\partial d_D(x, y(\hat{x}(\cdot)), \mathbf{e}(t, r))}{\partial y} + \frac{\partial d_E(x, y(\hat{x}(\cdot)), \mathbf{e}(t, r))}{\partial y} \right] f(x) dx f(\hat{x}(\cdot))\frac{\partial \hat{x}(\cdot)}{\partial t} \\
 &\quad - [d_D(\cdot) + d_E(\cdot)]f(\hat{x}(\cdot))\frac{\partial \hat{x}(\cdot)}{\partial \mathbf{e}_{\hat{x}}}(t, r) \\
 &\quad - \int_{\hat{x}(\cdot)}^{\bar{x}} \left[\frac{\partial d_D(x, y(\hat{x}(\cdot)), \mathbf{e}(t, r))}{\partial y} + \frac{\partial d_E(x, y(\hat{x}(\cdot)), \mathbf{e}(t, r))}{\partial y} \right] f(x) dx f(\hat{x}(\cdot))\frac{\partial \hat{x}(\cdot)}{\partial \mathbf{e}_{\hat{x}}}(t, r) \\
 &\quad + \left[\frac{\partial d_D(x, y(\hat{x}(\cdot)), \mathbf{e}(t, r))}{\partial e_{\hat{x}}} + \frac{\partial d_E(x, y(\hat{x}(\cdot)), \mathbf{e}(t, r))}{\partial e_{\hat{x}}} \right] f(\hat{x}(\cdot))\frac{\partial e_{\hat{x}}(t, r)}{\partial t} \\
 &\quad + \int_{\inf x > \hat{x}(\cdot)}^{\bar{x}} \left[\frac{\partial d_D(x, y(\hat{x}(\cdot)), \mathbf{e}(t, r))}{\partial e_x} + \frac{\partial d_E(x, y(\hat{x}(\cdot)), \mathbf{e}(t, r))}{\partial e_x} \right] f(x) dx \frac{\partial e_{\hat{x}}(t, r)}{\partial t} \\
 &= 0, \tag{6}
 \end{aligned}$$

$$\left[\frac{dV(\mathbf{e}(\hat{t}^*, \hat{r}^*), \hat{x}(\cdot))}{d\hat{t}^*} \right]_{\hat{t}^*} = 0, \quad \left[\frac{dV(\mathbf{e}(\hat{t}^*, \hat{r}^*), \hat{x}(\cdot))}{d\hat{r}^*} \right]_{\hat{r}^*} = 0 \tag{7}$$

$$\frac{dV(\mathbf{e}(\hat{t}^*, \hat{r}^*), \hat{x}(\cdot))}{d\hat{t}^*} \leq 0, \quad \frac{dV(\mathbf{e}(\hat{t}^*, \hat{r}^*), \hat{x}(\cdot))}{d\hat{r}^*} \leq 0 \tag{8}$$

$$\hat{t}^* \geq 0, \quad \hat{r}^* \geq 0, \tag{9}$$

$$\begin{aligned}
 \frac{dV(\mathbf{e}(\hat{t}^*, \hat{r}^*), \hat{x}(\cdot))}{d\hat{t}^*} &= \frac{\partial V(\mathbf{e}(\hat{t}^*, \hat{r}^*), \hat{x}(\cdot))}{\partial \hat{x}} \frac{\partial \hat{x}(\cdot)}{\partial \hat{t}^*} \\
 &\quad + \frac{\partial V(\mathbf{e}(\hat{t}^*, \hat{r}^*), \hat{x}(\cdot))}{\partial \hat{x}} \frac{\partial \hat{x}(\cdot)}{\partial e_{\hat{x}}} \frac{\partial e_{\hat{x}}(\hat{t}^*, \hat{r}^*)}{\partial \hat{t}^*} \\
 &\quad + \frac{\partial V(\mathbf{e}(\hat{t}^*, \hat{r}^*), \hat{x}(\cdot))}{\partial e_{\hat{x}}} \frac{\partial e_{\hat{x}}(\hat{t}^*, \hat{r}^*)}{\partial \hat{t}^*} \\
 &\quad + \frac{\partial V(\mathbf{e}(\hat{t}^*, \hat{r}^*), \hat{x}(\cdot))}{\partial e_{\hat{x}}} \frac{\partial e_{\hat{x}}(\hat{t}^*, \hat{r}^*)}{\partial \hat{t}^*}, \tag{10}
 \end{aligned}$$

$$\begin{aligned}
 \frac{dV(\mathbf{e}(\hat{t}^*, \hat{r}^*), \hat{x}(\cdot))}{d\hat{r}^*} &= \frac{\partial V(\mathbf{e}(\hat{t}^*, \hat{r}^*), \hat{x}(\cdot))}{\partial \hat{x}} \frac{\partial \hat{x}(\cdot)}{\partial \hat{r}^*} \\
 &\quad + \frac{\partial V(\mathbf{e}(\hat{t}^*, \hat{r}^*), \hat{x}(\cdot))}{\partial \hat{x}} \frac{\partial \hat{x}(\cdot)}{\partial e_{\hat{x}}} \frac{\partial e_{\hat{x}}(\hat{t}^*, \hat{r}^*)}{\partial \hat{r}^*} \\
 &\quad + \frac{\partial V(\mathbf{e}(\hat{t}^*, \hat{r}^*), \hat{x}(\cdot))}{\partial e_{\hat{x}}} \frac{\partial e_{\hat{x}}(\hat{t}^*, \hat{r}^*)}{\partial \hat{r}^*} \\
 &\quad + \frac{\partial V(\mathbf{e}(\hat{t}^*, \hat{r}^*), \hat{x}(\cdot))}{\partial e_{\hat{x}}} \frac{\partial e_{\hat{x}}(\hat{t}^*, \hat{r}^*)}{\partial \hat{r}^*}. \tag{11}
 \end{aligned}$$