Prof. Dr. Alfred Toth

Objektale Polysemie von Zeichenklassen

1. In Toth (2009) hatten wir die drei Bezüge der Peirceschen Zeichenrelation

$ZR = (M, O, I)$

aufgrund der widersprüchlichen Definitionen von Peirce, Bense und Walther redefiniert. Wir verstanden unter dem Mittel oder Mittelbezug – die beiden Terme sind insofern identisch, als das Mittel hier als 1-stellige Relation aufgefasst wird – die (1-stellige) Relation eines Zeichenträgers, d.h.

$R(\mathcal{M}) \equiv M.$

Unter Objektbezug verstanden wir die Relation des Mittels zum bezeichneten Objekt, d.h.

$O = (\mathcal{M} \leftrightarrow \Omega) = (R(\mathcal{M}) \leftrightarrow \Omega) \equiv R(\Omega),$

und unter Interpretantenbezug die Relation des Objektbezugs zum bedeutenden Interpretanten, d.h.

$I = (\Omega \leftrightarrow \mathcal{J}) = (R(\Omega) \leftrightarrow \mathcal{J}) \equiv R(\mathcal{J}).$

Somit ist also

$Z = (R(\mathcal{M}), R(\Omega), R(\mathcal{J})) = R(\mathcal{M}, \Omega, \mathcal{J}) = R(OR),$

d.h das Zeichen ist eine triadische Relation über den drei triadischen Relata $\mathcal{M}$, Ω und $\mathcal{J}$.

Demgegenüber ist allerdings die Peircesche Zeichenrelation eine triadische Relatiion über einem monadischen, einem dyadischen und einem triadischen Relatum (vgl. Bense 1979, S. 53, 67)

$Z = R(M, O, I) = {}^3R({}^1R, {}^2R, {}^3R),$

d.h. für das Peircesche Zeichen gilt

$$M = {}^{1}R(\mathcal{M})$$
$$O = {}^{2}R(\Omega)$$
$$I = {}^{3}R(\mathcal{I}),$$

aber für die semiotische Objektrelation gilt

$$\mathcal{M} = {}^{3}R(\mathcal{M}, \Omega, \mathcal{I})$$
$$\Omega = {}^{3}R(\Omega, \mathcal{M}, \mathcal{I})$$
$$\mathcal{I} = {}^{3}R(\mathcal{I}, \mathcal{M}, \Omega),$$

d.h. sie ist eine triadische Relation über drei triadischen Partialrelationen

$$OR = {}^{3}R({}^{3}\mathcal{M}, {}^{3}\Omega, {}^{3}\mathcal{I}).$$

2. Dieser Umstand, den wir hier durch die Unterscheidung von „Zeichen“ vs. „Peirceschem Zeichen“ verdeutlicht haben, führt nun zu einer semiotischen Polysemie, insofern über OR, da sie keine verschachtelte Relation darstellt, sämtliche $3^3 = 27$ möglichen triadischen Relationen möglich sind, während über ZR traditionell, bedingt durch die semiotische Inklusionsordnung ($a \leq b \leq c$) auf (3.a 2.b 1.c), nur 10 von 27 Zeichenklassen konstruierbar sind.

$$({}^{3}R^{1}S,\ {}^{2}R^{1}S,\ {}^{1}R^{1}S)\ ({}^{3}R^{1}S,\ {}^{2}R^{1}S,\ {}^{1}R^{1}S)^{\circ} = ({}^{1}S^{1}R,\ {}^{1}S^{2}R,\ {}^{1}S^{3}R)$$
$$\downarrow \quad \downarrow \quad \downarrow \quad \downarrow \quad \downarrow \quad \downarrow \qquad \downarrow \quad \downarrow \quad \downarrow$$
$$({}^{3}R^{1}S,\ {}^{2}R^{1}S,\ {}^{1}R^{1}S)\ ({}^{3}R^{1}S,\ {}^{2}R^{1}S,\ {}^{1}R^{1}S)^{\circ} = ({}^{1}S^{1}R,\ {}^{1}S^{2}R,\ {}^{1}S^{3}R)$$

$$({}^{3}R^{1}S,\ {}^{2}R^{1}S,\ {}^{1}R^{2}S)\ ({}^{3}R^{1}S,\ {}^{2}R^{1}S,\ {}^{1}R^{2}S)^{\circ} = ({}^{2}S^{1}R,\ {}^{1}S^{2}R,\ {}^{1}S^{3}R)$$
$$\downarrow \quad \downarrow \quad \downarrow \quad \downarrow \quad \downarrow \quad \downarrow \qquad \downarrow \quad \downarrow \quad \downarrow$$
$$({}^{3}R^{1}S,\ {}^{2}R^{1}S,\ {}^{1}R^{2}S)\ ({}^{3}R^{1}S,\ {}^{2}R^{1}S,\ {}^{1}R^{2}S)^{\circ} = ({}^{2}S^{1}R,\ {}^{1}S^{2}R,\ {}^{1}S^{3}R)$$

$$({}^{3}R^{1}S,\ {}^{2}R^{1}S,\ {}^{1}R^{3}S)\ ({}^{3}R^{1}S,\ {}^{2}R^{1}S,\ {}^{1}R^{3}S)^{\circ} = ({}^{3}S^{1}R,\ {}^{1}S^{2}R,\ {}^{1}S^{3}R)$$
$$\downarrow \quad \downarrow \quad \downarrow \quad \downarrow \quad \downarrow \quad \downarrow \qquad \downarrow \quad \downarrow \quad \downarrow$$
$$({}^{3}R^{1}S,\ {}^{2}R^{1}S,\ {}^{1}R^{3}S)\ ({}^{3}R^{1}S,\ {}^{2}R^{1}S,\ {}^{1}R^{3}S)^{\circ} = ({}^{3}S^{1}R,\ {}^{1}S^{2}R,\ {}^{1}S^{3}R)$$

$$({}^3R^1S,\ {}^2R^2S,\ {}^1R^1S)\ ({}^3R^1S,\ {}^2R^2S,\ {}^1R^1S)^\circ = ({}^1S^1R,\ {}^2S^2R,\ {}^1S^3R)$$

$$\downarrow \quad \downarrow \quad \downarrow \quad \downarrow \quad \downarrow \quad \downarrow \qquad \downarrow \quad \downarrow \quad \downarrow$$

$$({}^3R^1S,\ {}^2R^2S,\ {}^1R^2S)\ ({}^3R^1S,\ {}^2R^2S,\ {}^1R^2S)^\circ = ({}^2S^1R,\ {}^2S^2R,\ {}^1S^3R)$$

$$({}^3R^1S,\ {}^2R^2S,\ {}^1R^2S)\ ({}^3R^1S,\ {}^2R^2S,\ {}^1R^2S)^\circ = ({}^2S^1R,\ {}^2S^2R,\ {}^1S^3R)$$

$$\downarrow \quad \downarrow \quad \downarrow \quad \downarrow \quad \downarrow \quad \downarrow \qquad \downarrow \quad \downarrow \quad \downarrow$$

$$({}^3R^1S,\ {}^2R^2S,\ {}^1R^2S)\ ({}^3R^1S,\ {}^2R^2S,\ {}^1R^2S)^\circ = ({}^2S^1R,\ {}^2S^2R,\ {}^1S^3R)$$

$$({}^3R^1S,\ {}^2R^2S,\ {}^1R^3S)\ ({}^3R^1S,\ {}^2R^2S,\ {}^1R^3S)^\circ = ({}^3S^1R,\ {}^2S^2R,\ {}^1S^3R)$$

$$\downarrow \quad \downarrow \quad \downarrow \quad \downarrow \quad \downarrow \quad \downarrow \qquad \downarrow \quad \downarrow \quad \downarrow$$

$$({}^3R^1S,\ {}^2R^2S,\ {}^1R^3S)\ ({}^3R^1S,\ {}^2R^2S,\ {}^1R^3S)^\circ = ({}^3S^1R,\ {}^2S^2R,\ {}^1S^3R)$$

$$({}^3R^1S,\ {}^2R^3S,\ {}^1R^1S)\ ({}^3R^1S,\ {}^2R^3S,\ {}^1R^1S)^\circ = ({}^1S^1R,\ {}^3S^2R,\ {}^1S^3R)$$

$$\downarrow \quad \downarrow \quad \downarrow \quad \downarrow \quad \downarrow \quad \downarrow \qquad \downarrow \quad \downarrow \quad \downarrow$$

$$({}^3R^1S,\ {}^2R^3S,\ {}^1R^3S)\ ({}^3R^1S,\ {}^2R^3S,\ {}^1R^3S)^\circ = ({}^3S^1R,\ {}^3S^2R,\ {}^1S^3R)$$

$$({}^3R^1S,\ {}^2R^3S,\ {}^1R^2S)\ ({}^3R^1S,\ {}^2R^3S,\ {}^1R^2S)^\circ = ({}^2S^1R,\ {}^3S^2R,\ {}^1S^3R)$$

$$\downarrow \quad \downarrow \quad \downarrow \quad \downarrow \quad \downarrow \quad \downarrow \qquad \downarrow \quad \downarrow \quad \downarrow$$

$$({}^3R^1S,\ {}^2R^3S,\ {}^1R^3S)\ ({}^3R^1S,\ {}^2R^3S,\ {}^1R^3S)^\circ = ({}^3S^1R,\ {}^3S^2R,\ {}^1S^3R)$$

$$({}^3R^1S,\ {}^2R^3S,\ {}^1R^3S)\ ({}^3R^1S,\ {}^2R^3S,\ {}^1R^3S)^\circ = ({}^3S^1R,\ {}^3S^2R,\ {}^1S^3R)$$

$$\downarrow \quad \downarrow \quad \downarrow \quad \downarrow \quad \downarrow \quad \downarrow \qquad \downarrow \quad \downarrow \quad \downarrow$$

$$({}^3R^1S,\ {}^2R^3S,\ {}^1R^3S)\ ({}^3R^1S,\ {}^2R^3S,\ {}^1R^3S)^\circ = ({}^3S^1R,\ {}^3S^2R,\ {}^1S^3R)$$

*

$$({}^3R^2S,\ {}^2R^1S,\ {}^1R^1S)\ ({}^3R^2S,\ {}^2R^1S,\ {}^1R^1S)^\circ = ({}^1S^1R,\ {}^1S^2R,\ {}^1S^3R)$$

$$\downarrow \quad \downarrow \quad \downarrow \quad \downarrow \quad \downarrow \quad \downarrow \qquad \downarrow \quad \downarrow \quad \downarrow$$

$$({}^3R^2S,\ {}^2R^2S,\ {}^1R^2S)\ ({}^3R^2S,\ {}^2R^2S,\ {}^1R^2S)^\circ = ({}^2S^1R,\ {}^2S^2R,\ {}^2S^3R)$$

$$({}^3R^2S,\ {}^2R^1S,\ {}^1R^2S)\ ({}^3R^2S,\ {}^2R^1S,\ {}^1R^2S)^\circ = ({}^2S^1R,\ {}^1S^2R,\ {}^1S^3R)$$

$$\downarrow \quad \downarrow \quad \downarrow \quad \downarrow \quad \downarrow \quad \downarrow \qquad \downarrow \quad \downarrow \quad \downarrow$$

$$({}^3R^2S,\ {}^2R^2S,\ {}^1R^2S)\ ({}^3R^2S,\ {}^2R^2S,\ {}^1R^2S)^\circ = ({}^2S^1R,\ {}^2S^2R,\ {}^2S^3R)$$

$$({}^{3}R^{2}S,\ {}^{2}R^{1}S,\ {}^{1}R^{3}S)\ ({}^{3}R^{2}S,\ {}^{2}R^{1}S,\ {}^{1}R^{3}S)^{\circ} = ({}^{3}S^{1}R,\ {}^{1}S^{2}R,\ {}^{1}S^{3}R)$$

$$\downarrow \quad \downarrow \quad \downarrow \quad \downarrow \quad \downarrow \quad \downarrow \qquad \downarrow \quad \downarrow \quad \downarrow$$

$$({}^{3}R^{2}S,\ {}^{2}R^{2}S,\ {}^{1}R^{2}S)\ ({}^{3}R^{2}S,\ {}^{2}R^{2}S,\ {}^{1}R^{2}S)^{\circ} = ({}^{2}S^{1}R,\ {}^{2}S^{2}R,\ {}^{2}S^{3}R)$$

$$({}^{3}R^{2}S,\ {}^{2}R^{2}S,\ {}^{1}R^{1}S)\ ({}^{3}R^{2}S,\ {}^{2}R^{2}S,\ {}^{1}R^{1}S)^{\circ} = ({}^{1}S^{1}R,\ {}^{2}S^{2}R,\ {}^{1}S^{3}R)$$

$$\downarrow \quad \downarrow \quad \downarrow \quad \downarrow \quad \downarrow \quad \downarrow \qquad \downarrow \quad \downarrow \quad \downarrow$$

$$({}^{3}R^{2}S,\ {}^{2}R^{2}S,\ {}^{1}R^{3}S)\ ({}^{3}R^{2}S,\ {}^{2}R^{2}S,\ {}^{1}R^{3}S)^{\circ} = ({}^{3}S^{1}R,\ {}^{2}S^{2}R,\ {}^{2}S^{3}R)$$

$$({}^{3}R^{2}S,\ {}^{2}R^{2}S,\ {}^{1}R^{2}S)\ ({}^{3}R^{2}S,\ {}^{2}R^{2}S,\ {}^{1}R^{2}S)^{\circ} = ({}^{2}S^{1}R,\ {}^{2}S^{2}R,\ {}^{1}S^{3}R)$$

$$\downarrow \quad \downarrow \quad \downarrow \quad \downarrow \quad \downarrow \quad \downarrow \qquad \downarrow \quad \downarrow \quad \downarrow$$

$$({}^{3}R^{2}S,\ {}^{2}R^{2}S,\ {}^{1}R^{3}S)\ ({}^{3}R^{2}S,\ {}^{2}R^{2}S,\ {}^{1}R^{3}S)^{\circ} = ({}^{3}S^{1}R,\ {}^{2}S^{2}R,\ {}^{2}S^{3}R)$$

$$({}^{3}R^{2}S,\ {}^{2}R^{2}S,\ {}^{1}R^{3}S)\ ({}^{3}R^{2}S,\ {}^{2}R^{2}S,\ {}^{1}R^{3}S)^{\circ} = ({}^{3}S^{1}R,\ {}^{2}S^{2}R,\ {}^{1}S^{3}R)$$

$$\downarrow \quad \downarrow \quad \downarrow \quad \downarrow \quad \downarrow \quad \downarrow \qquad \downarrow \quad \downarrow \quad \downarrow$$

$$({}^{3}R^{2}S,\ {}^{2}R^{2}S,\ {}^{1}R^{3}S)\ ({}^{3}R^{2}S,\ {}^{2}R^{2}S,\ {}^{1}R^{3}S)^{\circ} = ({}^{3}S^{1}R,\ {}^{2}S^{2}R,\ {}^{2}S^{3}R)$$

$$({}^{3}R^{2}S,\ {}^{2}R^{3}S,\ {}^{1}R^{1}S)\ ({}^{3}R^{2}S,\ {}^{2}R^{3}S,\ {}^{1}R^{1}S)^{\circ} = ({}^{1}S^{1}R,\ {}^{3}S^{2}R,\ {}^{1}S^{3}R)$$

$$\downarrow \quad \downarrow \quad \downarrow \quad \downarrow \quad \downarrow \quad \downarrow \qquad \downarrow \quad \downarrow \quad \downarrow$$

$$({}^{3}R^{2}S,\ {}^{2}R^{3}S,\ {}^{1}R^{3}S)\ ({}^{3}R^{2}S,\ {}^{2}R^{3}S,\ {}^{1}R^{3}S)^{\circ} = ({}^{3}S^{1}R,\ {}^{3}S^{2}R,\ {}^{2}S^{3}R)$$

$$({}^{3}R^{2}S,\ {}^{2}R^{3}S,\ {}^{1}R^{2}S)\ ({}^{3}R^{2}S,\ {}^{2}R^{3}S,\ {}^{1}R^{2}S)^{\circ} = ({}^{2}S^{1}R,\ {}^{3}S^{2}R,\ {}^{1}S^{3}R)$$

$$\downarrow \quad \downarrow \quad \downarrow \quad \downarrow \quad \downarrow \quad \downarrow \qquad \downarrow \quad \downarrow \quad \downarrow$$

$$({}^{3}R^{2}S,\ {}^{2}R^{3}S,\ {}^{1}R^{3}S)\ ({}^{3}R^{2}S,\ {}^{2}R^{3}S,\ {}^{1}R^{3}S)^{\circ} = ({}^{3}S^{1}R,\ {}^{3}S^{2}R,\ {}^{2}S^{3}R)$$

$$({}^{3}R^{2}S,\ {}^{2}R^{3}S,\ {}^{1}R^{3}S)\ ({}^{3}R^{2}S,\ {}^{2}R^{3}S,\ {}^{1}R^{3}S)^{\circ} = ({}^{3}S^{1}R,\ {}^{3}S^{2}R,\ {}^{1}S^{3}R)$$

$$\downarrow \quad \downarrow \quad \downarrow \quad \downarrow \quad \downarrow \quad \downarrow \qquad \downarrow \quad \downarrow \quad \downarrow$$

$$({}^{3}R^{2}S,\ {}^{2}R^{3}S,\ {}^{1}R^{3}S)\ ({}^{3}R^{2}S,\ {}^{2}R^{3}S,\ {}^{1}R^{3}S)^{\circ} = ({}^{3}S^{1}R,\ {}^{3}S^{2}R,\ {}^{2}S^{3}R)$$

*

$$({}^{3}R^{3}S,\ {}^{2}R^{1}S,\ {}^{1}R^{1}S)\ ({}^{3}R^{3}S,\ {}^{2}R^{1}S,\ {}^{1}R^{1}S)^{\circ} = ({}^{1}S^{1}R,\ {}^{1}S^{2}R,\ {}^{1}S^{3}R)$$

$$\downarrow \quad \downarrow \quad \downarrow \quad \downarrow \quad \downarrow \quad \downarrow \qquad \downarrow \quad \downarrow \quad \downarrow$$

$$({}^{3}R^{3}S,\ {}^{2}R^{3}S,\ {}^{1}R^{3}S)\ ({}^{3}R^{3}S,\ {}^{2}R^{3}S,\ {}^{1}R^{3}S)^{\circ} = ({}^{3}S^{1}R,\ {}^{3}S^{2}R,\ {}^{3}S^{1}R)$$

$$\begin{array}{cccccccccc}
({}^3R^3S, & {}^2R^1S, & {}^1R^2S) & ({}^3R^3S, & {}^2R^1S, & {}^1R^2S)^\circ & = & ({}^2S^1R, & {}^1S^2R, & {}^1S^3R) \\
\downarrow & \downarrow & \downarrow & \downarrow & \downarrow & \downarrow & & \downarrow & \downarrow & \downarrow \\
({}^3R^3S, & {}^2R^3S, & {}^1R^3S) & ({}^3R^3S, & {}^2R^3S, & {}^1R^3S)^\circ & = & ({}^3S^1R, & {}^3S^2R, & {}^3S^1R)
\end{array}$$

$$\begin{array}{cccccccccc}
({}^3R^3S, & {}^2R^1S, & {}^1R^3S) & ({}^3R^3S, & {}^2R^1S, & {}^1R^3S)^\circ & = & ({}^3S^1R, & {}^1S^2R, & {}^1S^3R) \\
\downarrow & \downarrow & \downarrow & \downarrow & \downarrow & \downarrow & & \downarrow & \downarrow & \downarrow \\
({}^3R^3S, & {}^2R^3S, & {}^1R^3S) & ({}^3R^3S, & {}^2R^3S, & {}^1R^3S)^\circ & = & ({}^3S^1R, & {}^3S^2R, & {}^3S^1R)
\end{array}$$

$$\begin{array}{cccccccccc}
({}^3R^3S, & {}^2R^2S, & {}^1R^1S) & ({}^3R^3S, & {}^2R^2S, & {}^1R^1S)^\circ & = & ({}^1S^1R, & {}^2S^2R, & {}^1S^3R) \\
\downarrow & \downarrow & \downarrow & \downarrow & \downarrow & \downarrow & & \downarrow & \downarrow & \downarrow \\
({}^3R^3S, & {}^2R^3S, & {}^1R^3S) & ({}^3R^3S, & {}^2R^3S, & {}^1R^3S)^\circ & = & ({}^3S^1R, & {}^3S^2R, & {}^3S^1R)
\end{array}$$

$$\begin{array}{cccccccccc}
({}^3R^3S, & {}^2R^2S, & {}^1R^2S) & ({}^3R^3S, & {}^2R^2S, & {}^1R^2S)^\circ & = & ({}^2S^1R, & {}^2S^2R, & {}^1S^3R) \\
\downarrow & \downarrow & \downarrow & \downarrow & \downarrow & \downarrow & & \downarrow & \downarrow & \downarrow \\
({}^3R^3S, & {}^2R^3S, & {}^1R^3S) & ({}^3R^3S, & {}^2R^3S, & {}^1R^3S)^\circ & = & ({}^3S^1R, & {}^3S^2R, & {}^3S^1R)
\end{array}$$

$$\begin{array}{cccccccccc}
({}^3R^3S, & {}^2R^2S, & {}^1R^3S) & ({}^3R^3S, & {}^2R^2S, & {}^1R^3S)^\circ & = & ({}^3S^1R, & {}^2S^2R, & {}^1S^3R) \\
\downarrow & \downarrow & \downarrow & \downarrow & \downarrow & \downarrow & & \downarrow & \downarrow & \downarrow \\
({}^3R^3S, & {}^2R^3S, & {}^1R^3S) & ({}^3R^3S, & {}^2R^3S, & {}^1R^3S)^\circ & = & ({}^3S^1R, & {}^3S^2R, & {}^3S^1R)
\end{array}$$

$$\begin{array}{cccccccccc}
({}^3R^3S, & {}^2R^3S, & {}^1R^1S) & ({}^3R^3S, & {}^2R^3S, & {}^1R^1S)^\circ & = & ({}^1S^1R, & {}^3S^2R, & {}^1S^3R) \\
\downarrow & \downarrow & \downarrow & \downarrow & \downarrow & \downarrow & & \downarrow & \downarrow & \downarrow \\
({}^3R^3S, & {}^2R^3S, & {}^1R^3S) & ({}^3R^3S, & {}^2R^3S, & {}^1R^3S)^\circ & = & ({}^3S^1R, & {}^3S^2R, & {}^3S^1R)
\end{array}$$

$$\begin{array}{cccccccccc}
({}^3R^3S, & {}^2R^3S, & {}^1R^2S) & ({}^3R^3S, & {}^2R^3S, & {}^1R^2S)^\circ & = & ({}^2S^1R, & {}^3S^2R, & {}^1S^3R) \\
\downarrow & \downarrow & \downarrow & \downarrow & \downarrow & \downarrow & & \downarrow & \downarrow & \downarrow \\
({}^3R^3S, & {}^2R^3S, & {}^1R^3S) & ({}^3R^3S, & {}^2R^3S, & {}^1R^3S)^\circ & = & ({}^3S^1R, & {}^3S^2R, & {}^3S^1R)
\end{array}$$

$$\begin{array}{cccccccccc}
({}^3R^3S, & {}^2R^3S, & {}^1R^3S) & ({}^3R^3S, & {}^2R^3S, & {}^1R^3S)^\circ & = & ({}^3S^1R, & {}^3S^2R, & {}^1S^3R) \\
\downarrow & \downarrow & \downarrow & \downarrow & \downarrow & \downarrow & & \downarrow & \downarrow & \downarrow \\
({}^3R^3S, & {}^2R^3S, & {}^1R^3S) & ({}^3R^3S, & {}^2R^3S, & {}^1R^3S)^\circ & = & ({}^3S^1R, & {}^3S^2R, & {}^3S^1R)
\end{array}$$

In den obigen Tabellen haben wir alle polysemen ORs eingerahmt, d.h. alle jene, die auf mehr als eine ZR abgebildet werden.

Bibliographie

Bense, Max Die Unwahrscheinlichkeit des Ästhetischen. Baden-Baen 2009

Toth, Alfred, Relationale Kompositionen III. In: Electronic Journal for Mathematical Semiotics (erscheint, 2009a)

8.10.2009