Subject: POLYWARP question.
Posted by Octavi Fors on Mon, 14 Jun 1999 07:00:00 GMT
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Hi everybody,
<p>this is regarding POLYWARP function, in particular DEGREE argument.
As far as I

understood by the Online Help, POLYWARP accepts the following polynomial
models

depending on the value of DEGREE:
<p>DEGREE = 0:

X_{i} = k_{x00}

Y_{i} = k_{y00}
<p>DEGREE = 1:

X_{i} = k_{x00}
+ k_{x01} X_o
+ k_{x10} Y_o
+ k_{x11} X<sub>o</sub>Y_{o}
<p>Y_{i} = k_{y00}
+ k_{y01} X_o
+ k_{y10} Y_o
+ k_{y11} X<sub>o</sub>Y_{o}

<p>DEGREE = 2:

X_{i} = k_{x00}
+ k_{x01} X_o
+ k_{x10} Y_o
+ k_{x11} X<sub>o</sub>Y_o

+ k_{x02}X_o²+
k_{x20}Y_o²

+ k_{x12} X_o<sup>2
</sup>Y_o
+ k_{x21}X_{o}Y_o²+
k_{x22} X_o<sup>2
</sup>Y_o²
<p>Y_{i} = k_{y00}
+ k_{y01} X_o
+ k_{y10} Y_o
+ k_{y11} X<sub><font

size=-1>o</sub>Y_o

+ k_{y02}X_o²+
k_{y20}Y_o²

+ k_{y12} X_o<sup>2
</sup>Y_o
+ k_{y21}X_{o}Y_o²+
k_{y22} X_o<sup>2
</sup>Y_o²

<p>This is fine, but poor in flexibility: what happens if I want to consider
a model like this, which acounts for 1st. degree crossed XY terms and 2nd.
degree in X and Y?
<p>X_{i} = k_{x00}
+ k_{x01} X_o
+ k_{x10} Y_o
+ k_{x11} X<sub>o</sub>Y_o

+ k_{x02}X_o²+
k_{x20}Y_o²

Y_{i} = k_{y00}
+ k_{y01} X_o
+ k_{y10} Y_o
+ k_{y11} X<sub>o</sub>Y_o

+ k_{y02}X_o²+
k_{y20}Y_o²

<p>Does anybody know any implementation/patch of POLYWARP which permits
more freedom in considering

coeficients to obtain?

<p>Thanks in advance,
<p>Octavi.
<p> ========== =====
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