Leaving Spatial Temporal Surrounding - Aware Convertion Filter with Mutation Sensitive Regularization Via Adaptive Hybrid Label.

Describe Tracker (BACF):

EChir) =
$$\frac{1}{2} \stackrel{c}{\lesssim} \| rk - \stackrel{c}{\lesssim} (Ph_{\epsilon}^{k}) \circ \chi_{\epsilon}^{k} \|_{2} + \frac{\lambda}{2} \stackrel{c}{\lesssim} \| h_{\epsilon}^{k} \|_{F}^{2}$$

Enhanced Spatial Feature Setection:
$$F(k) = \frac{2}{2} \frac{2}{k} \frac{1}{k} \frac{1}{k} \frac{2}{k} \frac{1}{k} \frac{1}{k} \frac{1}{k} \frac{2}{k} \frac{1}{k} \frac$$

E(h,r) =
$$\frac{1}{2}$$
 $\frac{1}{2}$ $\frac{1}{$

Objective Function: -

E Chir) =
$$\frac{1}{2} \sum_{k=1}^{2} \| \gamma^{k} - \sum_{k=1}^{2} \| p_{k} \|^{2} = \frac{1}{2} \sum_{k=1}^{2} \| p_{k} \|^{2} + \frac{1}{2} \sum$$

We Indroduced the auxiliary Variable $\hat{g}^k = JT (Io \otimes FP^T) h^k$.

1) Dub problem -9:-

$$\hat{g} = \frac{1}{2} \frac{1}{2} \left\| \hat{g}_{k-1}^{k} - \hat{g}_{k-1}^{k} \right\|_{2,1}^{2} + \frac{1}{2} \frac{$$

2) Sub problem - h: -

$$h_{i} = \frac{\lambda_{2}}{2} \left\{ \frac{\lambda_{1}}{\lambda_{1}} \right\} \left\{ \frac{\lambda_{2}}{\lambda_{1}} \right\} \left\{ \frac{\lambda_{2}}{\lambda_{2}} \right\} \left\{ \frac{\lambda_{2}}{\lambda_{1}} \right\} \left\{ \frac{\lambda_{2}}{\lambda_{2}} \right\}$$

Subproblem - Y: -

$$\gamma = \frac{1}{2} \sum_{k=1}^{c} \left\| \hat{\gamma}^{k} - \sum_{k=1}^{c} \hat{g}^{k} \otimes \hat{\chi}^{k}_{k} \right\|_{21} + \frac{1}{2} \left\| \frac{1}{2} + \frac{1}{2} + \frac{1}{2} \right\|_{21}^{2} + \frac{1}{2} \left\| \hat{\gamma}^{k} - \hat{\gamma}^{k}_{k} \right\|_{21}^{2} + \frac{1}{2} \left\| \hat{\gamma}^{k} - \hat{\gamma}^{k} \right\|_{21}^{2} + \frac{1}{2} \left\| \hat{\gamma}^{k} - \hat{\gamma}$$

A -> Optimal Adaptive Hybrid Label T' -> Adaptive Hybrid Label.

1 Sub Problem -9:

Salution!

=> 12 || x^k - x^k g^k||_2 + 12 || x^k x^k + g^k ||_2 + 1/2 || g^k - g^k ||_2 + 1/2 || g^k - h^k + f^k ||_2.

Taking durivative word gr & could to Zero.

- => /2 XIZ (xkgk-rk) + /2 x (dxxdkgk) + 23/2 x (gk-gk) + 4/2 x (gk-hk+ /u) =0
- => XT (xx 92 x2) + (xxx 96) + h3 (92-961) + u(92-h6+ + xu) co
- =) Xt Xt 9t Xt 7t + Xx Xt 9t + N39t N39t N39t Hht + Th =0 Take the 9th term as common.
- =) 9x(xxxx+ xxx+ + xxx+ + x3 + 43x) = xxxx+ + x39x+ + x39x+ + x1x9x+ xxxx+

2 Sub problem - his

$$hi = \frac{1}{2} \sum_{i=1}^{M} \|h_{i:i}\|_{2} + \frac{1}{2} \sum_{i=1}^{M} \|g_{i:i}^{k} - h_{i:i}^{k} + \frac{\sum_{i:1}^{k} \|g_{i:i}^{k}\|_{2}}{\|g_{i:1}^{k} - h_{i:1}^{k}\|_{2}}$$

Salution!

$$\Rightarrow h_i = \frac{\lambda_i}{2} \|h_i \cdot \|_2 + \frac{\mu_i}{2} \|g_i^k - h_i^k + \frac{\hat{\Gamma}_i^k}{4} \|_a^2.$$

Now taking derivative wir. + his & equal to Zero.

=> hi: =
$$\left(g_{i}^{k} + \frac{T_{i}^{k}}{u}\right) \left(1 - \frac{\lambda_{1}}{u\left(g_{i}^{k} + T_{i}^{k}\right)}\right)$$

hi = man
$$\left(0, 1 - \frac{\lambda_1}{\mu(g_{i,+}^k + f_{i,u}^k)}\right) \left(g_{i,+}^k + \frac{f_{i,u}^k}{\mu}\right)$$

2 Dubproblem_hj:

(ii)
$$h_{j} = \frac{\lambda_{2}}{2} \sum_{j=1}^{N} \|h_{ij}\|_{2} + \frac{\lambda_{2}}{2} \sum_{j=1}^{N} \|g_{ij}^{k} - h_{ij}\|_{2} + \frac{\Gamma_{ij}^{k}}{M}\|_{2}^{2}$$

Walution:

Now taking derivertine with. T. + hj exercal

=) hij =
$$\left(9^{k}_{ij} + \frac{\Gamma^{k}_{ij}}{\mu}\right)\left(1 - \frac{\lambda_{\perp}}{\mu\left(9^{k}_{ij} + \frac{\Gamma^{k}_{ij}}{\mu}\right)}\right)$$

e) hij = max
$$\left(0, 1 - \frac{\lambda 2}{\left(9^{k} + \frac{k}{4}\right)^{k}}\right)\left(9^{k} + \frac{k}{4}\right)$$

(3) Oub problem - Y!

Dalution!

Now we taking derivative wirit it & and to Zero.

$$\Rightarrow \sqrt{x} \left[x^2 - 2x^2 + \frac{x^2}{3} \right] + \frac{(1+\psi^2)}{2} \left[x^2 - 2x^2 + \frac{x^2}{3} \right] + \frac{(1-\psi^2)}{2} \left[x^2 - 2x^2 + \frac{x^2}{3} \right] + \frac{(1+\psi^2)}{2} \left[x^2 - 2x^2 + \frac{x^2}{3} \right] + \frac{(1+\psi^2)}{2} \left[x^2 - 2x^2 + \frac{x^2}{3} \right] + \frac{(1+\psi^2)}{2} \left[x^2 - 2x^2 + \frac{x^2}{3} \right] + \frac{(1+\psi^2)}{2} \left[x^2 - 2x^2 + \frac{x^2}{3} \right] + \frac{(1+\psi^2)}{2} \left[x^2 - 2x^2 + \frac{x^2}{3} \right] + \frac{(1+\psi^2)}{2} \left[x^2 - 2x^2 + \frac{x^2}{3} \right] + \frac{(1+\psi^2)}{2} \left[x^2 - 2x^2 + \frac{x^2}{3} \right] + \frac{(1+\psi^2)}{2} \left[x^2 - 2x^2 + \frac{x^2}{3} \right] + \frac{(1+\psi^2)}{2} \left[x^2 - 2x^2 + \frac{x^2}{3} \right] + \frac{(1+\psi^2)}{2} \left[x^2 - 2x^2 + \frac{x^2}{3} \right] + \frac{(1+\psi^2)}{2} \left[x^2 - 2x^2 + \frac{x^2}{3} \right] + \frac{(1+\psi^2)}{2} \left[x^2 - 2x^2 + \frac{x^2}{3} \right] + \frac{(1+\psi^2)}{2} \left[x^2 - 2x^2 + \frac{x^2}{3} \right] + \frac{(1+\psi^2)}{2} \left[x^2 - 2x^2 + \frac{x^2}{3} \right] + \frac{(1+\psi^2)}{2} \left[x^2 - 2x^2 + \frac{x^2}{3} \right] + \frac{(1+\psi^2)}{2} \left[x^2 - 2x^2 + \frac{x^2}{3} \right] + \frac{(1+\psi^2)}{2} \left[x^2 - 2x^2 + \frac{x^2}{3} \right] + \frac{(1+\psi^2)}{2} \left[x^2 - 2x^2 + \frac{x^2}{3} \right] + \frac{(1+\psi^2)}{2} \left[x^2 - 2x^2 + \frac{x^2}{3} \right] + \frac{(1+\psi^2)}{2} \left[x^2 - 2x^2 + \frac{x^2}{3} \right] + \frac{(1+\psi^2)}{2} \left[x^2 - 2x^2 + \frac{x^2}{3} \right] + \frac{(1+\psi^2)}{2} \left[x^2 - 2x^2 + \frac{x^2}{3} \right] + \frac{(1+\psi^2)}{2} \left[x^2 - 2x^2 + \frac{x^2}{3} \right] + \frac{(1+\psi^2)}{2} \left[x^2 - 2x^2 + \frac{x^2}{3} \right] + \frac{(1+\psi^2)}{2} \left[x^2 - 2x^2 + \frac{x^2}{3} \right] + \frac{(1+\psi^2)}{2} \left[x^2 - 2x^2 + \frac{x^2}{3} \right] + \frac{(1+\psi^2)}{2} \left[x^2 - 2x^2 + \frac{x^2}{3} \right] + \frac{(1+\psi^2)}{2} \left[x^2 - 2x^2 + \frac{x^2}{3} \right] + \frac{(1+\psi^2)}{2} \left[x^2 - 2x^2 + \frac{x^2}{3} \right] + \frac{(1+\psi^2)}{2} \left[x^2 - 2x^2 + \frac{x^2}{3} \right] + \frac{(1+\psi^2)}{2} \left[x^2 - 2x^2 + \frac{x^2}{3} \right] + \frac{(1+\psi^2)}{2} \left[x^2 - 2x^2 + \frac{x^2}{3} \right] + \frac{(1+\psi^2)}{2} \left[x^2 - 2x^2 + \frac{x^2}{3} \right] + \frac{(1+\psi^2)}{2} \left[x^2 - 2x^2 + \frac{x^2}{3} \right] + \frac{(1+\psi^2)}{2} \left[x^2 - 2x^2 + \frac{x^2}{3} \right] + \frac{(1+\psi^2)}{2} \left[x^2 - 2x^2 + \frac{x^2}{3} \right] + \frac{(1+\psi^2)}{2} \left[x^2 - 2x^2 + \frac{x^2}{3} \right] + \frac{(1+\psi^2)}{2} \left[x^2 - 2x^2 + \frac{x^2}{3} \right] + \frac{(1+\psi^2)}{2} \left[x^2 - 2x^2 + \frac{x^2}{3} \right] + \frac{(1+\psi^2)}{2} \left[x^2 - 2x^2 + \frac{x^2}{3} \right] + \frac{(1+\psi^2)}{2} \left[x^2 - 2x^2 + \frac{x^2}{3} \right] + \frac{(1+\psi^2)}{2} \left[x^2 - 2x^2 + \frac{x^2}{3} \right] + \frac{(1+\psi^2)}{2} \left[x^2 - 2x^$$

$$\hat{\gamma} = \frac{\hat{\chi}\hat{g} + (1+\psi^2) \hat{\chi}_2 \hat{\chi}_2 + (1-\psi^2) \hat{\phi} \hat{\chi}_{+-1}}{1 + (1+\psi^2) \hat{\chi}_2 + (1-\psi^2) \hat{\phi}}$$