Typo List – Math II

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Typo Lists[1]

1. Page 8

   (a) "$> 0; \hat{x} = 0$ is a global" should be "$> 0; (3)\hat{x} = 0$ is a global"

2. Page 16

   (a) "orthogonal to the line through $\hat{x}$ and $\hat{x}$" should be "orthogonal to the line through $\hat{x}$ and p"

3. Page 21

   (a) "$(1,1) =$" should be "$(1,0)+$"

   (b) "$-2 + \frac{2}{5}\sqrt[3]{5}$" should be "$-3 + \frac{2}{5}\sqrt[3]{5}$"

4. Page 29

   (a) "the transversality condition $\hat{p}(t_1) = -\lambda_0 \hat{\kappa}'(t_1)$" should be "the transversality condition $\hat{p}(t_1) = -\hat{\lambda}_0 \kappa'(\hat{x}(t_1))$"

5. Page 31

   (a) "we choose $h(.)$ and c such that $\dot{h}(t) = \hat{f}_{\dot{x}}(t) + \int_t^{t_1} \hat{L}_x(\tau)d\tau - c$" should be "we choose $h(.)$ and c such that $\dot{h}(t) = \hat{L}_{\dot{x}}(t) + \int_t^{t_1} \hat{L}_x(\tau)d\tau - c$"

   (b) "the transversality condition $\hat{L}_{\dot{x}}(t_1) = -\hat{\kappa}'(t_1)$" should be "the transversality condition $\hat{L}_{\dot{x}}(t_1) = -\kappa'(\hat{x}(t_1))$"

6. Page 32

   (a) " $\dot{\hat{p}}(t_1) = -\hat{\kappa}'(\hat{x}(t_1))$" should be " $\hat{p}(t_1) = -\hat{\lambda}_0 \kappa'(\hat{x}(t_1))$"

   (b) "That is, we take $\phi(k, x, u) = x - u$" should be "That is, we take $\phi(k, x, u) = u$"

7. Page 33

   (a) "$\hat{H}_k = \max_{u_k \in U} J_k(\hat{x}_k, u_k, \hat{p}_k)$" should be "$\hat{H}_k = \max_{u_k \in U} H_k(\hat{x}_k, u_k, \hat{p}_k)$"

8. Page 47

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[1]We are not so sure about 4(a),5(b),6(a)(b) typos,specially 6(a)(b) since we change two theorems a little bit.

(a) "**Upper hemicontinuity**...and every sequence $\{x_n\}$ with $y_n \in \Gamma(y_n)$"
should be "**Upper hemicontinuity**...and every sequence $\{x_n\}$ with
$x_n \in \Gamma(y_n)$"

(b) "**Lower hemicontinuity**...if for every sequence $_n \to y$" should be
"**Lower hemicontinuity**...if for every sequence $y_n \to y$"