

Addenda and Corrigenda

for the Journal Publications of Christian Kuehn

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Abstract

This document is going to collect corrigenda to my publications. I got this (very good!) idea from a very similar document maintained by Stefan Gerhold at TU Wien. In particular, typographical and similar errors will be marked in [blue](#) while explanatory comments and addenda will be labeled [green](#). Unfortunately, the existence problem for errors is not very pleasant, e.g., suppose each written page is correct with 99% probability and the page count is x pages total then $\mathbb{P}(\text{“no errors at all”}) = (0.99)^x$. Unfortunately, this function decays a lot quicker than one would like. Hence, the existence of this document is certainly helpful for readers. Please send me any errors or typos you find and I am going to include them here; please make sure you know precisely, how a *correct* version should read to avoid false alarms.

- [2]: In formula (12), replace $-2g_{xy}$ by $-2g_{xy}^2$.
- [3]: In Section 9, the numerical value for the lag “ $k = 0.002$ ” should be read as “time lag $\delta t = 0.002$ ” to be consistent with the formula for $R(k)$ in the notation, i.e., the lag is the time lag, which corresponds to an index step k in the formula for $R(k)$.
- [1]: On page 3 of the article, the reference [?,36] is incorrect. The question mark should reference to [5].
- [4]: On page 4, replace in the definition of \mathbb{P}_r the conditioning “ $x_j^* = r$ ” by “ $x_j^* \leq r$ ”.

References

- [1] A. Jüngel, C. Kuehn, and L. Trussardi. A meeting point of entropy and bifurcations in cross-diffusion herding. *Euro. J. Appl. Math.*, 28(2):317–356, 2017.
- [2] C. Kuehn. From first Lyapunov coefficients to maximal canards. *Int. J. Bif. and Chaos*, 20(5):1467–1475, 2010.
- [3] C. Kuehn. A mathematical framework for critical transitions: bifurcations, fast-slow systems and stochastic dynamics. *Physica D*, 240(12):1020–1035, 2011.
- [4] C. Kuehn. Quenched noise and nonlinear oscillations in bistable multiscale systems. *EPL (Europhysics Letters)*, 120:10001, 2017.
- [5] J. Zinsl and D. Matthes. Transport distances and geodesic convexity for systems of degenerate diffusion equations. *Calc. Var. Partial Diff. Eq.*, 54(4):3397–3438, 2015.