These are my “little mistakes” that do not even deserve an erratum... please help me update the list (SORRY)


- Equation (6), the denominator of the second equation should be unity.
- Figure 7, the polarity of the first operational amplifier from the left is wrong.


- Appendix A, the width should be \( w \) and not \( a \).

Porfiri, M., Maurini, C., Pouget, J., 2007: “Identification of electromechanical modal parameters of linear piezoelectric structures”, Smart Materials and Structures, 16(2), 323-331

- Figure 4, the polarity of the first operational amplifier from the left is wrong.


- Equations (37a), 1 should be -1.
- Equation (37b) the first summand on the right hand side should be divided by 2 and -1 should be -1/2.


- Equations (4a) and (4c), the Lame shear constants \( \mu_b \) and \( \mu_m \) should be outside the parentheses.
- Equation (9c), the cosine should be changed to a sine.
- Equation (15b), the denominator should read: \( 2(3k+\mu) \).
- In the text above Eq. (15), ”in terms of \( t \) and \( v \)” should be replaced with ”in terms of \( \eta \) and \( \Phi \)”. 
Equations (18)–(20), occurrences of “$\tau$” should be replaced with “$\eta$”.

Appendix A, the expression for $b_0$ should read: $b_0 = 4\mu_0 (3k_0 + 4\mu_m)$.


• Throughout the manuscript, the SI unit of the capacitance is written as “C” rather than “F”.


• Page 3, the sentence: “The pinning-control actions may be viewed as weighted self-loops in the graph” should be deleted.


• Equation (21), the 8 at the denominator should be replaced with 16 and the number below should be consistently halved.


• Equation (6a), right hand side, the numerator should read: $3(\nu_m - 1)[4 + 5(\nu_m + 1)\cos(2\theta)]$
• Equation (6b), right hand side: a minus sign is missing.
• Equation (10b), the constant $D_n$ should be:

$$D_n = -\frac{a^{n+3}\left((n^2 + 2\nu_m - 2)\sigma_n + n(n^2 + 3n - 2\nu_m)\tau_n\right)}{4\mu_m(n + 2)(n^2 + (1 - 2\nu_m)n + 1 - \nu_m)}$$


• Figure 1, the caption should read “Vorticity contour plots are scaled in the range $\pm s^3$”.

• Equation (A5a), right hand side, the numerator should read:
  \[3(\nu_m - 1)[4 + 5\nu_m + 1 \cos(2\theta)]\]
• Equation (A5b), right hand side: a minus sign is missing.

• Page 4, the units of B should be “N m” rather than “N/m”.

• Page 3, below equation (14), “the stochastic stability of (1)” should read “the stochastic stability of (5)”.

• Proposition 2, “eigenvectors” should read “unit norm eigenvectors”.

• Panels (g), (h), (i) in Figures 11, 12, and 13 and panel (c) in Figure 14 appeared in the Journal should be replaced with the figures reported below. The statement “Experimental data in [15] are all within the range of variation for \(\epsilon\) and \(\beta\)” on line 4 of page 1640 should be replaced with “Experimental data in [15] are generally all within the range of variation for \(\epsilon\) and \(\beta\)”.

![Figure 11(g)](image1.png)  
![Figure 11(h)](image2.png)  
![Figure 11(i)](image3.png)
- Page 1644, “\( \Omega = k/m \)” should read “\( \Omega = \sqrt{k/m} \).”
- Page 1632, the statement “In other words, this implies that the pressure term dominates the viscous normal stresses acting along the lamina length”, should say “In other words, this implies that the pressure term dominates viscous stresses”.


Abaid, N., Bartolini, T., Macrì, S., Porfiri, M., 2012; “Zebrafish responds differentially to a robotic fish of varying aspect ratio, tail beat frequency, noise, and color”, Behavioural Brain Research 224(2), 545–553

- The scale for the robotic fish is in Figure 2 should be 15mm and not 1cm.

- The vertical axis of Figure 1 should read: \( \| \xi_k \|^2 \).
- In the proof of Proposition 1, we partition the indices of the elements of \( \mathbf{E}[\hat{L} \otimes \hat{L}] \) into six cases. Case (1) should be \( i = j, s = t \); case (3) should be \( i = j, s \neq t \); and case (4) should be \( i \neq j, s = t \). (The very same mistake in Abaid N., Porfiri M. 2011: “Influence of leaders on mean square consentability in biologically-inspired stochastic networks”, Proceedings of the ASME Dynamic Systems and Control Conference, October 31–November 2).


- Equation 10, the integral should start at -1 rather than 0.
- Equation 33c, L should be \( \Lambda \).


- Caption of Figure 2, “0.666x+169” should be “-0.666x+169”.


- Equation (2.5) should read: \( I(t_j) = k \sum_{j=1}^{i} \left( \bar{d}(t_j) - \frac{L}{2} \right) \Delta t_j \).


- Page 5, Equation (37), “\( \eta \)” should be “\( \zeta \)”. 

- In Figure 7(a) and (b), the sign of the exponents on the horizontal axes should be positive, such that ticks for Reynolds number are shown from 1 to 1000.


Polverino, G., Phamduy, P., Porfiri, M., 2013: "Fish and robots swimming together in a water tunnel: robot color and tail-beat frequency influence fish behavior", PLoS ONE 8(10), e77589

- Page 2, “as suggested in [60] and observed in [20]” should read "as observed in [20]".

Panciroli, R., Porfiri, M., 2013: “Evaluation of the pressure field on a rigid body entering a quiescent fluid through particle image velocimetry”, Experiments in Fluids 54(12), 1630

- In the paragraph of the introduction starting with “In addition to these analytical efforts…”, reference “Chat et. al, 2012” is misplaced.
- The right hand side of Equation (3b) should have a minus sign in front.
- Page 5, “a Phantom CCD camera (v.9.1)” should read “a Phantom CMOS camera (v.9.1)”. 
- Page 5, “The CCD camera is orthogonal to the laser sheet” should read “The CMOS camera is orthogonal to the laser sheet”.
- Page 5, “Hollow glass spheres of 10 µm mean” should read “Hollow glass spheres of 44 µm mean”.


- Page 054901, “a Phantom CCD camera (v.9.1)” should read “a Phantom CMOS camera (v.9.1)”.
- Page 054901, “Hollow glass spheres of 10 µm mean diameter are used as seeding” should read “Hollow glass spheres of 44 µm mean diameter are used as seeding”.

- Page 19, “a Phantom CCD camera (v.9.1)” should read “a Phantom CMOS camera (v.9.1)”.  
- Page 19, “The CCD camera” should read “The CMOS camera”.


- Below Equation (1), the definition of $X$ should feature 3.5 rather than 2.5.
- The hysteresis ratio (HR) in Table 1 should be 0.46 rather than 0.43.
- In the acknowledgements, “Institute of Engineering Interfaces” should be “Institute for Engineered Interfaces”.


- Below Equation (24), in the limit for a large number of individuals, in the polarization the equation should have $K/(K-1)$ rather than $K/K-1$.


- The camera frame rate and resolution for the pilot study were different from that of the main experiment. Accordingly, the first sentence of the second paragraph on page 3, column 2, in the Section ‘Procedure’ should read: “Experimental sessions, for both the pilot study and the main experiment, lasted 5 minutes. The pilot sessions were video-recorded at 10 frames per second and 1280 x 720 pixels for the conditions that involved introducing the fish into the tank using a hand net and directly placement, and at 800 x 600 pixel resolution for the condition that involved gently overturning the beaker with fish into the tank. The main experiment sessions were all recorded at 24 frames per second at a resolution of 1920 x 1080 pixels. All experiments were performed in an undisturbed room.”


- Page 1318, the statement “quantized into $N$ square” should be “quantized into $N^2$ square”.
- Page 1318, the statement “Accordingly, $\delta_i$ is the maximum distance between pairs of points in a box $i$ and $\Delta_i (t)$ is the largest distance between the same pair of points after time $t'$, should say “Accordingly, $\delta_i$ is the maximum distance between pairs of points in a box $i$ and $\Delta_i (t)$ is the largest distance between the same pairs of points after time $t$”.
- Page 1319, “$T = N/e_i(t)$” should be “$T = (\log(N))/e_i(t)$”.

- The unit of $\sigma_u$ and $\sigma_\omega$ in Equation (14) are cm s$^{-3/2}$ and rad s$^{-3/2}$ respectively.
- The values of $\bar{\theta}_u$ and $\bar{\bar{\omega}}_u$ in Equation (14) are 0.59 and 4.21 as reported in Table 1 instead of 4.21 and 0.59 respectively.
- After Equation (7) the text should read “with equilibrium (relaxation) value $\mu$, rate of mean-reversion $\theta$, and volatility $\sigma$ scaling the standard Wiener process $W_t$. ” instead of “with equilibrium (relaxation) value $\mu$, rate of mean-reversion $\theta$, and variance $\sigma$ of the standard Wiener process $W_t$. ”


- Page 163, in equations (35a), the integrand should be multiplied by “1-k(Y,t)X”.
- Page 167, in equations (59a) and (59b) the derivatives should be taken with respect to $\xi$.


- Bibliography, “Korotkin” should be “Korobkin”


- Caption of Figure 1, “250” should be “208”.
- Caption of Figure 5, “seven fish” should be “eight fish”.
- Pages 6 and 7, the log-likelihood summations should go from 2 to $T$ rather than 1 to $T$.
- The units of $\sigma$ in Table 1, Equation (4.1), and Table S1 in Supplementary material are rad s$^{-3/2}$.
- The discrete-time approximation in Equation (4.4) should read:

$$\omega(k) = m(\omega(k - 1), \Delta t) + \sqrt{v(\Delta t)}\epsilon(k) + \gamma \left( v(k\Delta t) - v((k - 1)\Delta t) \right) \zeta(k).$$

- As a clarification: in the calibration phase associated with Equation (4.5) and yielding data in Table 1, we measure $\lambda$ with respect to $\Delta t$ rather than 1 second, so that $\lambda$ measures the rate of occurrence of jumps per unit time step. Consistently, the on Page 6, left column, 4th line to the end, after “occurrence” we should include “(measured with respect to a time unit of $\Delta t$)”.
- Histograms in Figure 5(c) are plotted with the same number of bins (200) but not the same bin size (ranging between 0.8 and 0.9 rad/s for the experimental data and JPTW, and approximately 0.6 rad/s for PTW). As a result, we should be careful in interpreting
the continuous lines, obtained by connecting bins in the histograms of model data. These lines do not define regions with equal area, and the PTW, with a more limited range of variation than the experiments, seems visibly distorted. A new figure is provided below for the three datasets (live fish, JPTW model, and PTW model turn rates) using the same bin size (0.15 rad/s) and number (200) for completeness.
Figure 5. Comparison of the Q–Q plot of the eight fish turn rates based on both the JPTW (a) and PTW models (b) and normalized histograms for each (c). The quantiles for JPTW model are similar or linearly related to the real fish data, while the quantiles of the PTW model increments are not aligned with the tails of the empirical turn rate distribution. Histograms of each simulated model (red for JPTW and green for PTW) also show a better fit for the JPTW model.

- Figure 4(b), $\beta_1$ and $\beta_2$ should be switched in the figure, that is, the right deadrise angle should read $\beta_1$ and the left deadrise angle $\beta_2$.

Jalalisendi, M., Shams, A., Panciroli, R., Porfiri, M., 2015: “Experimental reconstruction of 3D hydrodynamic loading in water entry problems through particle image velocimetry”, Experiments in Fluids 56(41), 1-17

- Page 5, right column, lines 17 and 19 and page 8, right column line 31, the wording “wetted length” should be replaced with “wetted width”.


- Bibliography, reference [56] should not be there and just be replaced by [55].
- Page 10, left column, “65 mm” should be “36.5 mm”.


- The units of $\sigma$ in Equation (1), (2), and Figure 3 are rad $s^{-3/2}$.
- Caption of Figure 3, “jump frequency” should be replaced with “jump frequency measured with respect to a unit time of $\Delta t$”.
- The discrete-time approximation in Equation (4) should read:
  \[ \omega(k) = \omega(k-1)e^{-\theta \Delta t} + \sigma \sqrt{\frac{1}{2\theta}}(1 - e^{-2\theta \Delta t})\varepsilon(k) + \gamma \left(v(k\Delta t) - v((k-1)\Delta t)\right)\zeta(k). \]

- The likelihood probability density function in Equation (5) should read:
  \[ \tilde{f}_{\theta,\sigma,\lambda}^{(k)}(\omega(k)\mid \omega(k-1)) = (1 - \lambda \Delta t)\phi\left(\omega(k); \omega(k-1)e^{-\theta \Delta t} \frac{\sigma^2}{2\theta} (1 - e^{-2\theta \Delta t})\right) \]
  \[ + \lambda \Delta t \phi\left(\omega(k); \omega(k-1)e^{-\theta \Delta t} \frac{\sigma^2}{2\theta} (1 - e^{-2\theta \Delta t}) + \gamma^2\right) \]


- In Figure 2a, the width of the model should be 16cm, as written in the main text.
- In Table 1, the sign of the coefficient $a_i$ in the first column should be changed to positive, that is, the coefficient should be “219.912”.
• The horizontal label of Figure 18 should be \(Z\) rather than \(z\).


• In Figure 1, \(\mu\) is 0.005


• The unit of \(\sigma_u\) and \(\sigma_\omega\) in Table B.1. of Appendix B, are BL \(s^{-3/2}\) and rad \(s^{-3/2}\) respectively.


• Page 233, similar to Appendix A in Eqs. (17) and (18), \(\hat{b}\) should have explicit dependence on \(x\) and should be replaced with \(\hat{b}(c(x), x)\)

• Page 241, above Eq. (A.3) the wording “cosine transform to write \(u_t\) as” should be replaced to “transform to write \(u_t\) symmetric in \(\hat{x}\), as”

• Page 242, above Eq. (A.6) the wording “where \(J_0\) is the Bessel function of order zero (Lebedev, 1972).” should be replaced with “where \(J_0\) is the Bessel function of order zero (Lebedev, 1972) and we focus on positive values of \(\hat{x}\).”

• Page 243, in Eq. (B. 6d) \(\hat{b}_n\left(\frac{c}{s \cos \beta}, s \cos \beta\right)\) should be \(\hat{b}_m\left(\frac{c}{s \cos \beta}, s \cos \beta\right)\).


• Page 453, “0.666x+169” should be “-0.666x+169”.


• Page 1390, Eqs. (3.3) and (3.4), in each equation the first conditional probability should be replaced with a joint probability, that is, “/” should be replaced with a comma.

- Page 378, Table 1, the standard deviation for row “Research experience” and column “FTF” should be “0.34” rather than “10.89”.


- Page 4, Eqs. (8a) and (8b), in each equation the first conditional probability should be replaced with a joint probability, that is, “/” should be replaced with a comma – analogously to Eq. (4).
- Page 6, Eq. (17), index $r$ should run from $\tau_n$ rather than $\max\{n-\tau_n,1\}$ since $\tau_n$ is an absolute time and not a window duration, different from “$\tau$” in Eqs. (5a) and (5b).


- Page 12, line 19, “RM” should read “replica motion”.

Mwaffo, V., Butail, S., Porfiri, M., 2017: “In-silico experiments of zebrafish behaviour: modeling swimming in three dimensions”, Scientific Reports, 7, 39877

- Page 2, Results Section, second paragraph, second line, figure reference should refer to Fig. 1(b) instead of 1(d) as: “Different from experiments, where fish tend to prefer the clear side of the tank to the side covered with contact paper, simulation results show no such preference for a particular side (Fig. 1(b))”.

Shams, A., Zhao, S., Porfiri, M., 2017: “Hydroelastic slamming of flexible wedges: modeling and experiments from water entry to exit”, Physics of Fluids 29, 037107

- Page 4, Equations (6) and (7), “c(t)” should be “$c_{en}(t)$”.