Enayet U, Tarafdar; P. Watson; George Xian-Zhi Yuan

Correction to the paper: Random coincidence degree theory with applications to random differential inclusions

Commentationes Mathematicae Universitatis Carolinae, Vol. 38 (1997), No. 4, 815--816

Persistent URL: http://dml.cz/dmlcz/118976

Correction

to the paper "On linear functorial operators extending pseudometrics"

T. Banakh, O. Pikhurko

The editors wish to apologize to the authors of the above mentioned paper for the inconvenience caused by technical fault. The commutative diagram on page 344 should read as follows:

$$\begin{array}{ccc} Pc(Y) & \xrightarrow{T_Y} & Pc(FY) \\ {\scriptstyle f^*}\downarrow & & \downarrow{\scriptstyle (Ff)^*} \\ Pc(X) & \xrightarrow{T_X} & Pc(FX). \end{array}$$

References

[1] Banakh T., Pikhurko O., *On linear functorial operators extending pseudometrics*, Comment. Math. Univ. Carolinae **38.2** (1997), 343–348.

Department of Mathematics, Lviv University, Universytetska 1, Lviv, 290602, Ukraine

Trinity College, Cambridge CB2 1TQ, United Kingdom

(*Received* August 11, 1997)

Correction

to the paper "Random coincidence degree theory with applications to random differential inclusions"

E. Tarafdar, P. Watson, Xian-Zhi Yuan

The following is the correction of some errata from our paper [1].

In page 730 at the line 3, the 'space X' in Theorem 2.12 should be read as '*the space X is finite dimensional*', as in the proof of the upper semicontinuity for the selection mapping S defined in page 730 at the line –14, we apply Proposition 5 in [2, p. 42] wherein, the space X must be finite dimensional (for more details, see [3]).

In page 737 at the line –19, the 'mapping N' in the condition '(ĉ)' should be read as '*The set-valued mapping $N : \Omega \times \overline{G} \to CK(Z)$ is Carathéodory upper semicontinuous and jointly measurable with non-empty compact and convex values*'.

In page 738 at the line –17, the existence of random fixed points for the mapping M_ψ is guaranteed by Theorem 2.3 of Tan and Yuan [4] (see also Lemma 4 in [2]) instead of applying Theorem 2.12 in [1]. Thus the conclusion of Theorem 4.5 still holds.

In page 738 at the line –4. Theorem 4.5 should be read as '*Theorem* 4.6'.

In page 739 at the line 2, the 'condition (i)' should be read as '$\widehat{N}$ *is u.s.c. on* $\overline{G} \times [0,1]$ *and* $\widehat{N}$ *is jointly measurable*'.

In page 739 at the line 12, the term '$d[(L, N_w(\cdot, \lambda)), G]$' should be read as '$d[(L, \widehat{N}_w(\cdot, \lambda)), G]$'.

In page 739 at the line 13, the '**Remark 4.6**' should be read as '**Remark 4.7**'.

In page 739 at the line 16, the '**Definition 4.7**' should be read as '**Definition 4.8**'.

In page 739 at the line –6, the 'mapping F_3' should be read as '$F_3(w,x) \subset F_1(w,x) + F_2(w,x)$ *for all* $(w.x) \in \Omega$ *and* F_3 *is jointly measurable with nonempty compact values*'.

In page 741 at the line 2, instead of applying Theorem 2.12 in page 730, the existence of random fixed points for the mapping $N_\psi(w,x)$ is guaranteed by applying Theorem 2.3 od Tan and Yuan [4]. Thus the conclusion of Theorem 5.1 still holds in page 739.

In page 743 at the line 1, the term '[14, p. 419]' should be read as '[16, p. 489]'.

In page 746 at the first two lines, the mapping Ψ should be read as '*Suppose that a multivalued mapping* $\Phi : \Omega \times \overline{G} \times \mathbb{R} \times \mathbb{R} \to 2^{\mathbb{R}}$ *is Carathéodory, jointly measurable, closed and bounded in the following senses:*'

In page 746 at the line –4, the term 'Theorem' should be read as '*Theorem* 5.1'.

References

[1] Tarafdar E., Watson P., Xian-Zhi Yuan, *Random coincidence degree theory with applications to random differential inclusions*, Comment. Math. Univ. Carolinae **37** (1996), 725–748.

[2] Tarafdar E., Watson P., Xian-Zhi Yuan, *Jointly measurable selections of condensing Carathéodory set-valued mappings and its applications to random fixed points*, Nonlinear Anal. T.M.A. **28** (1997), 39–48.

[3] Tarafdar E., Watson P., Xian-Zhi Yuan, *Erratum to our paper "Jointly measurable selections of condensing Carathéodory set-valued mappings and its applications to random fixed points, Nonlinear Anal. T.M.A.,* 28 (1997)*, p.* 39–48, Nonlinear Anal. T.M.A., to appear.

[4] Tan K.K., Yuan X.Z., *On deterministic and random fixed points*, Proc. Amer. Math. Soc. **119** (1993), 849–856.

Xian-Zhi Yuan:
Department of Mathematics, University of Queensland, Brisbane, Australia 4072
E-mail: xzy@axiom.maths.uq.edu.au

(*Received* July 9, 1997)