Correction to "A nonparametric proof of the theorem of Lusternik and Schnirelman"

By

JÜRGEN JOST

The paper [1] needs the following correction. I am grateful to Nancy Hingston for drawing my attention to this point.

p. 502,

Lines 7, 8 replace: the (geodesic) subarc... same endpoints.

by: its projection onto $c'_s(\tau)$ or $c'_{-s}(\tau)$ along the parallel curves of $\gamma(s, \tau)$.

after line 10 add: some subarcs of $c'(\tau)$ may be traversed back and forth several times
by $v_0(\tau)$;

after line 13 add: In the case where some subarcs of $c'(\tau)$ are covered with multiplicity
by $v_0(\tau)$ we repeat the process with $c'(\tau)$ in place of $\gamma(\tau)$ and with geodesics
through the endpoints of such subarcs and orthogonal to $c'(\tau)$ in place
of $c'(\tau)$.

(This argument is similar to one presented in: J. Jost, Two-dimensional geometric variational problems, Sections 1.1 and 4.6. Chichester 1991.)

Again, the resulting curves need not be embedded, but can be made embedded by arbitrarily small perturbations, as throughout the process leading to these curves all intermediate curves are embedded.

References

- [1] J. JOST, A nonparametric proof of the theorem of Lusternik and Schnirelman. Arch. Math. **53**, 497–509 (1989).

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Anschrift des Autors:

Jürgen Jost
Fakultät und Institut für Mathematik
Ruhr-Universität Bochum
Postfach 102148
D-4630 Bochum 1