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Alexander P. Welles, Xiaojiang Xu, William R. Santee, David P. Looney, Mark J. Buller, Adam W. Potter, Reed W. Hoyt



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**ESTIMATION OF CORE BODY TEMPERATURE FROM SKIN TEMPERATURE,
HEAT FLUX, AND HEART RATE USING A KALMAN FILTER**

Alexander P. Welles ^a

Email: alexander.p.welles.civ@mail.mil

Dr. Xiaojiang Xu ^a

Email: xiaojiang.xu.civ@mail.mil

Dr. William R. Santee ^a

Email: william.r.santee.ctr@mail.mil

Dr. David P. Looney ^a

Email: david.p.looney4.civ@mail.mil

Dr. Mark J. Buller ^a

Email: mark.j.buller.civ@mail.mil

Adam W. Potter ^a

Email: adam.w.potter.civ@mail.mil

Dr. Reed W. Hoyt ^a

Email: reed.w.hoyt.civ@mail.mil

^a Biophysics and Biomedical Modeling Division
U.S. Army Research Institute of Environmental Medicine
10 General Greene Avenue
Natick, MA 01760-5007
USA

Corresponding Author: Alexander P. Welles, 10 General Greene Ave., Natick, MA,
01760-5007, USA; phone: 508-233-5288; email: alexander.p.welles.civ@mail.mil

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