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# Privacy-Preserving Statistical Analysis on Ubiquitous Health Data

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<b>Title:</b>	<b>Privacy-Preserving Statistical Analysis on Ubiquitous Health Data</b>
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<b>Author:</b>	Georgios Drosatos, Pavlos S. Efraimidis
<b>Abstract:</b>	In this work, we consider ubiquitous health data generated from wearable sensors in a Ubiquitous Health Monitoring System (UHMS) and examine how these data can be used within privacy-preserving distributed statistical analysis. To this end, we propose a secure multi-party computation based on a privacy-preserving cryptographic protocol that accepts as input current or archived values of users' wearable sensors. We describe a prototype implementation of the proposed solution with a community of independent personal agents and present preliminary results that confirm the viability of the approach.