



## Challenges in Applied Human Biometeorology

Guest Editors:

**Prof. Dr. Sorin Cheval**

1, "Henri Coandă" Air Force  
Academy, 500183 Braşov,  
Romania

2, National Meteorological  
Administration, 013686  
Bucharest, Romania

**Prof. Dr. Oded Potchter**

Department of Geography, Man  
and Environment, Beit Berl  
Academic College, Beit Berl  
4490500, Israel

**Prof. Dr. Tzu-Ping Lin**

Department of Architecture,  
National Cheng Kung University,  
Tainan 701, Taiwan

Deadline for manuscript  
submissions:

**closed (15 June 2020)**

### Message from the Guest Editors

Dear Colleagues

Increased exposure and vulnerability to heat stress due to climate change has stimulated new emerging developments in fundamental and applied human biometeorology. Fanger's book was a historical milestone concerning the physically based treatment of thermal comfort in different environmental and human-related disciplines. By the end of the seventies, new approaches concerning the effects of the atmospheric environment on humans, particularly, in urban areas and the development of maps were established. Since then, biometeorology has grown into a process-oriented field, combining medicine, meteorology, climate change, and climate impacts. Heatwaves and the development of heat health warning systems to protect humans in different spatial and temporal dimensions were the focus of many approaches and studies. New numerical modeling tools, new data sources (e.g., crowdsourcing), and statistical techniques promise that we progress towards predicting the complex interactions of humans and their environment.

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Prof. Dr. Tzu-Ping Lin

*Guest Editors*





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## Editor-in-Chief

### Dr. Daniele Contini

Institute of Atmospheric Sciences  
and Climate (ISAC), National  
Research Council (CNR), Str. Prv.  
Lecce-Monteroni km 1.2, 73100  
Lecce, Italy

## Message from the Editor-in-Chief

Continued developments in instrumentation and modeling have driven atmospheric science to become increasingly more complex with a deeper understanding of concepts, mechanisms, and interactions. This is the field that innovation built and it has led to a better appreciation for the complexity with atmosphere. Human life is intertwined in this complexity as we strive to better understand our atmosphere. Climate change is constantly stretching the limits of our thinking and forcing new ideas and concepts to be played out. Welcome to the Anthropocene!

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Atmosphere Editorial Office  
MDPI, Grosspeteranlage 5  
4052 Basel, Switzerland

Tel: +41 61 683 77 34  
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