Special Issue

High-Resolution Weather and Climate Modeling with Industrial Applications

Message from the Guest Editors

With the continued growth and development of computing resources comes the user expectation that we will be able to obtain increasingly more detailed and specific weather and climate information. The aim of this Special Issue is to gather and share recent advances in the field of high-resolution weather and climate modeling, data assimilation, predictability, and industrial applications. The topic is still challenging to us for natural phenomena and essentially deal with the state-of-the-art sciences, technologies, and multidisciplinary approaches in software and hardware. This topic encompasses various dynamical, physical, biogeochemical, probabilistic, and statistical aspects including artificial intelligence in research institutes and operational centers. The topic is also relevant to coupling or linkage between high-resolution weather (climate) models and diverse applied models such as crop, animals, fire, landslide, drought, flood, and pollution modules and schemes. Here, we cordially invite scientists to submit articles regarding the above subjects so that both nations and people can understand, predict, and wisely manage our Earth system better than before.

Guest Editors

Dr. Seung-Jae Lee

National Center for AgroMeteorology (NCAM), Seoul 08826, Republic of Korea

Dr. Ji-Sun Kang

Korea Institute of Science and Technology Information (KISTI), Daejeon 34141, Korea

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Atmosphere
Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
atmosphere@mdpi.com

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About the Journal

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!

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

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