"DePaSITIA v.1.0": documentation file

1. Warranties and responsabilities

"DePaSITIA v.1.0" (RSE SpA) is a numerical tool, which is released "as is" with no warranty. NEITHER RSE SPA, NOR ANY OF ITS REPRESENTATIVES (OR ANY AUTHOR) MAKE ANY WARRANTY, EXPRESS OR IMPLIED, OR ASSUMES ANY LEGAL LIABILITY OR RESPONSIBILITY FOR THE ACCURACY, COMPLETENESS, EFFECTIVENESS, INTEGRITY, AVAILABILITY, OR USEFULNESS OF THE SOFTWARE, ANY INFORMATION PERTAINING TO THE SOFTWARE, OR REPRESENTS THAT ITS USE WOULD NOT INFRINGE PRIVATELY OWNED RIGHTS. No support service (for the software installation, use, ...) is implied by or included in the software license."

2. Citation of "DePaSITIA v.1.0"

All the published and unpublished items/products/documents of every kind, someway related to "DePaSITIA v.1.0" have the following citation: "DePaSITIA v.1.0 (RSE SpA)".

Cite the use of "DePaSITIA v.1.0 (RSE SpA)" in all the related publications, reports and dissemination tools and media, by means of the following citation:

"The numerical tool 'DePaSITIA v.1.0' is realised by RSE SpA thanks to the funding 'Fondo di Ricerca per il Sistema Elettrico' within the frame of Program Agreements between RSE SpA and the Italian Ministry of Economic Development (Ministero dello Sviluppo Economico)."

3. Acknowledgments

The minor tool "DePaSITIA v.1.0" has been financed by the Research Fund for the Italian Electrical System (for "Ricerca di Sistema -RdS-") under the Contract Agreements between RSE SpA and the Italian Ministry of Economic Development, in compliance with the Decree of Minister of Economic Development April 16, 2018 (and analogous following agreements).

4. Description and references

"DePaSITIA v.1.0" (RSE SpA) is a Fortran library, which represents a Deposition scheme for Particulate matter with Sedimentation, Inertial impaction, Turbulent impaction, Interception and Adhesion/bouncing (pollutant dispersion). With Copyright 2019 (RSE SpA), "DePaSITIA v.1.0" is written by Andrea Amicarelli (andrea.amicarelli@rse-web.it).

"DePaSITIA v.1.0" is free software released under the GNU Lesser General Public License (Free Software Foundation). The reference guide for DePaSITIA v.1.0 is the following manuscript: Amicarelli A. et al.; A dry deposition scheme for particulate matter coupled with a Lagrangian Stochastic model for micro-scale air quality; to be submitted to Environmental Fluid Mechanics.

5. Notes

"DePaSITIA v.1.0" (RSE SpA) has also been integrated in SPRAY-WEB v1.0 (Università del Piemonte Orientale et al.; under the main folder of the software repository), a code for micro-scale air quality. For further details, please contact the Software Manager of SPRAY-WEB (http://sprayweb.isac.cnr.it).