

DICHIARAZIONI SOSTITUTIVE DI CERTIFICAZIONI

(art. 46 D.P.R. n. 445/2000)

DICHIARAZIONI SOSTITUTIVE DELL'ATTO DI NOTORIETÀ

(art. 47 D.P.R. n. 445/2000)

Il sottoscritto

COGNOME	DONATELLI	
NOME	MARCELLO	
NATO A		
IL		
ATTUALMENTE RESIDENTE A		
INDIRIZZO		
N. TELEFONO FISSO		
N. TELEFONIA MOBILE		

Visto il D.P.R. 28 dicembre 2000, n. 445 concernente "T.U. delle disposizioni legislative e regolamentari in materia di documentazione amministrativa" e successive modifiche ed integrazioni;

Vista la Legge 12 novembre 2011, n. 183 ed in particolare l'art. 15 concernente le nuove disposizioni in materia di certificati e dichiarazioni sostitutive;

Consapevole che, ai sensi dell'art.76 del DPR 445/2000, le dichiarazioni mendaci, la falsità negli atti e l'uso di atti falsi sono punite ai sensi del Codice penale e delle leggi speciali vigenti in materia, dichiara sotto la propria responsabilità:

che quanto dichiarato nel seguente **curriculum vitae scientifico e professionale** comprensivo delle informazioni sulla produzione scientifica corrisponde a verità. Si veda elenco titoli associato per singoli documenti.

15 febbraio 2017

Firma

Curriculum vitae et studiorum

Marcello DONATELLI

CREA

Via di Corticella 133, 40128 Bologna, ITALY

Email: marcello.donatelli@crea.gov.it

ORCID ID: 0000-0002-7420-5530

Table of contents

Position	3
Education	3
Sabbaticals / Secondments.....	3
Appointments – Titles	3
Advisor in PhD programs.....	4
Awards	4
Research activity.....	4
International lectures.....	6
Editorial activities	7
Publications.....	7
Monographs and book chapters	7
International, peer reviewed:	8
International, congress papers	12
Reports to the European Commission	18
Italian, peer reviewed	18
Italian, congress papers	19

Position

- 2016-present** Acting Director of the Research Center for Agrobiology and Pedology, Council for Agricultural Research and Economics, Firenze.
- 2013-present** Director of the Research Center for Industrial Crops, Council for Agricultural Research and Economics, Bologna.
- 2007-2012** Seconded National Expert to the Joint Research Centre of the European Commission, Ispra (VA), Italy.
- 2001-present** Director of Research. Research Institute for Industrial Crops (CRA-CIN), Italian Ministry of Agriculture, Bologna, Italy
- 1997-2000** Senior Researcher. Research Institute for Industrial Crops (ISCI), Italian Ministry of Agriculture, Bologna, Italy.
- 1985-1997** Tenured Researcher. Research Institute for Agronomic Research (ISA), Italian Ministry of Agriculture, Modena, Italy.
- 1982-1985** Associate Researcher. Research Institute for Cereals (ISC), Italian Ministry of Agriculture, Rome, Italy.

Education

- 1982** Doctor in Agricultural Sciences *cum laude*, at the University of Perugia, Italy. Major in Crop Production, minor in Agricultural Engineering. Dissertation title: "Growth analysis of different genotypes of grain sorghum".

Sabbaticals / Secondments

- 2007-2012** Joint Research Centre, European Commission
- 1999(3 months)** FAO – SDRN Rome, Italy
- 1997(5 months)** Washington State Univ., Crops and Soils Dep., Pullman, WA, USA
- 1992(5 months)** Washington State Univ., Bio. Systems Engineering Dep., Pullman, WA, USA
- 1987(12 months)** Kansas state Univ., Agronomy Dep., Manhattan, KS, USA

Appointments – Titles

- 2016** Evaluator for the national system for research evaluation, VQR.
- 2016** Consultant for LEI, Wageningen, The Netherlands, on modular modelling.
- 2015-present** Member of the Board of Professors, Dep of Agriculture, Nutrition and Environment, University of Catania.
- 2015** Co-Leader of the Pests and Diseases Modelling Intercomparison Team, AgMIP
- 2014** Full professor of Agronomy, ASN - National Scientific Qualification
- 2014** Delegation leader food security, Italy-USA bilateral res. agreement, Washington DC, USA
- 2013-2016** Deputy coordinator of the 7th Framework Research Project MODEXTREME
- 2012** Expert evaluator of COST action FP0603
- 2010-present** Associate Editor of Environmental Modelling and Software
- 2009** Consultant for the World Bank, Agriculture and Rural Development for research project on climate change and agriculture in Latin America.
- 2009** Expert evaluator of research projects of the 7th Framework Research Program of the European Commission, DG Research, call KBBE-2009-3.
- 2006-2007** Member of the Editorial Board of European Journal of Agronomy
- 2005-2007** Board member of the EU Integrated Project SEAMLESS
- 2004** Consultant to develop a software for GMO sampling, Joint Research Center of the European Commission
- 2003-2007** Member of the Editorial Board of Agricultural Systems
- 2002-2009** Executive Secretary of the European Society for Agronomy
- 2002-2006, 2016-present** Member of the Board of the Italian Society for Agronomy
- 1996-2002** Chairman of the division "Agroclimatology and Agronomic Modelling" of ESA (European Society of Agronomy).
- 1997** Teaching Assistant, Washington State University.

1992 Adjunct faculty, Dep. Bio. Syst. Engineering, Washington State University, Pullman, USA.
1991-1993 Acting Director, Research Station of ISA, Ministry of Agriculture, Modena, Italy

Advisor in PhD programs

PhD 2017 Getachew Belete, “Integrating models on the web: applications for socio-environmental studies”, Dept. Geo-information processing, University of Twente, Olanda.
PhD 2012 Simone Bregaglio, “Definition and implementation of plant disease simulation models in interaction with crop models, aiming at forecasting the impact of climate change scenarios on crop production”, Università di Milano, Italia
PhD 2011 Jérôme Dury, “The cropping-plan decision-making: a farm level modelling and simulation approach”, INRA Tolosa, Francia
PhD 2003 Hatem Belhouchette, “Evaluation de la durabilité de succession culturales à l’échelle d’un périmètre irrigué en Tunisie: Utilisation conjointe d’un modèle de culture (CropSyst), d’un SIG et d’un modèle bio-économique”, Ecole Nationale Supérieure Agronomique de Montpellier, Francia
PhD 2001 Huib Hengsdijk, “Formalizing agro-ecological knowledge for future-oriented land use studies”, Wageningen University, Wageningen, Olanda

Awards

2014 Medallist and Fellow of the Environmental Modelling and Software Society:
<http://www.iemss.org/society/index.php/21-awards/262-2014-iemss-awards>

Research activity

Activity focuses on modelling of biophysical systems, with the target of developing innovative tools to evaluate management options with respect to both production and system externalities. Most of model development has been in the area of agro-meteorology, crop growth, and cropping systems. Developer or co-developer of the software at: <http://agsys.cra-cin.it/tools>, and leader of the development of the BioMA platform <https://en.wikipedia.org/wiki/BioMA>, <http://www.biomamodelling.org>. Biophysical models model have also been used with global circulation models outputs to estimate the impact of climate change scenarios on crop production and disease infections. Another field of activity has regarded statistical methodologies. Fluent programming in C# - .NET. Prior to becoming Director of the Research Center, in the last 15 years I was coordinator of groups of 3-8 researchers, also with the role of tutor for post-doc associates.

2013-2016

- Project **MODEXTREME** (FP7) – Deputy coordinator and work package leader. Development of model objects to estimate impact of extreme events in agriculture. Granted by the European Commission, DG RTD.

2008-2014

- Project **AgroScenari** – Climate Change impact on agriculture, models for pest and pathogens. Research unit leader, granted by the Italian Ministry of Agriculture and Forestry.

20010-2012

- Project **BioMA** –Scientific leader at JRC. Software and modelling platform for biophysical system. Funded via institutional resources by JRC.
- Project **TaToo** (FP7) – Scientific leader at JRC. Semantic web discovery of agro-environmental resources. Funded by the European Commission, DG RTD.
- Project **E-Agri** (FP7) – Scientific leader at JRC. Technology transfer of model tools to developing countries. Funded by the European Commission, DG RTD.

- Project **EUrocLIMA** – Scientific leader at JRC. A modelling platform for analysis of Climate Change and agriculture in Latina America. Granted by the European Commission, DG AIDCO.

2009-2011 Project **BECRA** – Project leader at JRC. Bio-Economic analysis of climate change impact and adaptation of Cotton and Rice based farming systems in Mali and Burkina Faso. Funded by the European Commission, DG AIDCO.

2009-2011 Project **ClimPest** – . Project leader at JRC. Modelling pest and diseases from tropical and subtropical areas establishment in Europe. Funded by The European Food Safety Authority, EFSA.

2005-2009 Board member (till 2007) and task coordinator: FP6 EU Integrated project SEAMLESS – System for Environmental and Agricultural Modelling; Linking Science to Society. Task leader of the project APES <http://www.apesimulator.org>

2001-2005 Coordinator: Project SIPEAA, Italian Min. of Agric.: Development of IT tools for eco-compatible planning of farms.

2004-2007 In charge of Research Unit: FP6 EU Project CLARIS (2005-2007). Activity: Estimating climate change impact on crop production in agricultural areas of South America

1999-2001 In charge of research unit. EU project LASSEE: Low-input Agriculture and Soil Sustainability in Eastern Europe.

1999 Visiting Scientist. FAO SDRN, Agrometeorology Group, Rome, Italy.
Research activity:

- Further development of RadEst software (version 3)
- Software development for solar radiation maps via remote sensing RadSatellite.

1997 Visiting Scientist at the Washington State University. NATO Senior fellowship.
Research activity:

- Development of a model to predict solar radiation.
- Development of the software RadEst for the above model
- Implementation of the model in the weather generator ClimGen.
- Regionalized use of the model CropSyst linked to ArcView to evaluate cropping systems.

1996-2001 Research Contract. NASA - Goddard Institute for Space Studies, Columbia University, NY-USA.

Research activity:

Assessment the effect of climatic change effect on cropping systems in Italy.

1993-1997 Research Coordinator. Project PANDA, Italian Ministry of Agriculture, subproject 2: cropping systems models testing and development.

Research activity:

- Cropping systems model development.
- Development of integrated software to build and test modular cropping system models.
- Scenario analysis for different strategies of agricultural management.

1992 Visiting Professor. Department of Biological Systems Engineering, Washington State University, Pullman-USA.

Research activity:

CropSyst software development and testing for Italian conditions.

1987-1998 Tenured Researcher. Research Institute for Agronomy, Modena, Italy.

Research activity:

- Assessment of statistical problems in analyzing long term experiments.
- Cropping system simulation via the model EPIC.
- Research on water use efficiency on tobacco grown in lysimeters.

1987 Visiting Scientist, Department of Agronomy, Kansas State University, Manhattan-USA.

Research activity:

- Modelling the effect of water stress on phenology and water use efficiency on grain sorghum.
- Parametrize phenology models using a worldwide data set in grain sorghum.

1986-1987 Researcher. Research Institute for Agronomy, Modena, Italy.

Research activity:

- Designing long terms field experiment for cropping systems.
- Designing and carrying out field experiments for water use in tobacco.

1985 Researcher on probation. Research Institute for Agronomy, Bari, Italy.

Research activity:

- Canopy temperature and water stress for irrigation scheduling in soybean.

1982-1984 Associate Researcher. Research Institute for Cereal Crops, Rome, Italy.

Research activity:

- Project EEC-AGRIMED: hybrid grain sorghum seed production. Development of a thermal-time model for matching flowering of parental lines.

1980 Research Assistant. Research Institute for Cereal Crops, Rome, Italy.

Research activity:

- Evaluation of agronomic techniques for maize and grain sorghum.
- Modelling grain sorghum

International lectures

2016: Lecturer, ENDURE Project, Course for post-graduate students, Volterra, Italy. *Linking disease-crops models; modular models for biophysical simulation.*

2007: Lecturer AGRIDEMA project, Vienna, Austria, *Modelling cropping systems via the CropSyst model.*

2006: Lecturer, University of Buenos Aires, Argentina. Course for post-graduate students: *Modelling cropping systems via the CropSyst model*

1999: Lecturer, Ankara Technical University, Turkey. Course for post-graduate students: *The CropSyst model*

1997: Teaching Assistant Washington State University, Crop and Soils Department, Pullman, WA, USA: *Environmental Biophysics*

1997-2001: Lecturer, Institut Agronomique Méditerranéen (IAMM) Montpellier, France. Course for post-graduate students: *The CropSyst model*

Editorial activities

- Agricultural Systems Modelling and Software, - Part I (2014) and II (2015)*. Holzworth D.P., Snow V., Janssen S., Athanasiadis I.N., Donatelli M., Hoogenboom G., White J.W., Thorburn P., Environmental Modelling and Software, 62 and 63.
- Field-Farm Scale Design and Improvement – Farming Systems Design*, **2007**. M. Donatelli, J.Hatfield, A.E Rizzoli (Editors), Catania, Italy, 252 pp
- Farm-Regional Scale and Development – Farming Systems Design*, **2007**. M. Donatelli, J.Hatfield, A.E Rizzoli (Editors), Catania, Italy, 212 pp
- Modelling Cropping Systems: Science, Software and Applications*. **2003**. M.K.Van Ittersum, M. Donatelli (Editors). European Journal of Agronomy, Elsevier, Olanda, 196 pp.
- Process Simulation and Application of Cropping Systems Models*. **2002**. M. Donatelli, M. Bindi, J.R. Porter, M.K. Van Ittersum (Editors). European Journal of Agronomy, Elsevier, Olanda, 185 pp.
- 2nd International Symposium on Modelling Cropping Systems*. **2001**. In M. Bindi, M. Donatelli, J. Porter, M.K. Van Ittersum (Editors). Proceedings, IBiMet, Firenze, 232 pp.
- Developing Sustainable Agricultural Production Systems: Agronomic Approaches at Different Levels of Scale*. **2000**. M.K. Van Ittersum, M. Donatelli, M. Lacko-Bartosova (Editors) European Journal of Agronomy, Elsevier, Olanda, 195 pp.
- 1st International Symposium on Modelling Cropping Systems*. **1999**. In M. Donatelli, C. Stockle, F. Villalobos, J. M. Villar Mir (Editors). Proceedings, Universitat de Lleida, Lleida, Spagna, 300 pp.

Publications

Monographs and book chapters

- Donatelli M., Confalonieri R. **2011**. Biophysical Models for Cropping System Simulation. In: G. Flichman (ed.), Bio-Economic Models applied to Agricultural Systems, Springer, 59-84.
- Dihé P., Frysinger S., Güttler R., Schlobinski S., Petronzio L., Denzer R., Nešić S., Lobo T., Schimak G., Hřebíček J., Donatelli M. **2011**. An Architecture for the Semantic Enhancement of Environmental Resources. IFIP Advances in Information and Communication Technology, vol 359, 372-384.
- Donatelli M., G. Russell, A.E Rizzoli, et al. **2010**. A component-based framework for simulating agricultural production and externalities. In: Environmental and agricultural modelling: Integrated approaches for policy impact assessment, F.Brouwer and M. van Ittersum editors, Springer, 63-108.
- Rizzoli A.E., G. Leavesley, J.C. Ascough II, R.M. Argent, I.N. Athanasiadis, V. Brilhante, F.H.A. Claey's, O. David, M. Donatelli, P. Gijsbers, D. Havlik, A. Kassahun, P. Krause **2008**. Environmental modelling, software and decision support - state of the art and new perspectives Elsevier 101-119
- Donatelli M., M. Acutis, A. Nemés, H. Wosten, **2004**. Integrated Indices for Pedotransfer Evaluation Pedotransfer Functions, Pacepsky and Rawls Eds. Elsevier 363-390
- Donatelli M., G. Bellocchi, G. Fila, C. Maestrini, **2002** Uso avanzato di MS Excel, Istituto Sperimentale per le Colture Industriali, Bologna, 92 pp.
- Danuso F., M. Donatelli, **2002**. La simulazione dei sistemi colturali. In: Verso un approccio integrato allo studio dei sistemi colturali, E. Bonari e P. Ceccon Ed., FrancoAngeli Editore, 46 pp.
- Donatelli M., P. Annicchiarico **1998**. Nota sull'analisi di dati sperimentali in agricoltura con il sistema SAS - Seconda Edizione, Istituti Sperimentali per le Colture Industriali e per le Colture Foraggere, Bologna e Lodi, 268 pp,
- Donatelli M. **1995** Sistemi Integrati nella gestione delle colture. Istituto Sperimentale Agronomico, Modena, 119 pp

Donatelli M., P. Annicchiarico **1990**. Nota sull'analisi di dati sperimentali in agricoltura con il sistema SAS, Istituti Sperimentali Agronomico e per le Colture Foraggere, Modena e Lodi, 220 pp

Citation Index

Scopus *h*-Index: 25 (November 2016)

International, peer reviewed: (a fondo grigio quelle selezionate per concorso DC-AA)

Donatelli M., Magarey R.D., Bregaglio S., Willocquet L., Whish J.P.M., Savary S., **2017**.

Modelling the impacts of pests and diseases on agricultural systems. (in press).

<http://www.sciencedirect.com/science/article/pii/S0308521X1730104X>

Duveiller G., Donatelli M., Fumagalli D., Zucchini A., Baruth B., **2015**. A dataset of future daily weather data for crop modelling over Europe derived from climate change scenarios.

Theoretical and Applied Climatology

<http://link.springer.com/article/10.1007/s00704-015-1650-4>

Donatelli M., Srivastava, A.K., Duveiller G., Niemeyer S., Fumagalli D. **2015**. Climate change impact and potential adaptation strategies under alternate realizations of climate scenarios for three major crops in Europe. Environmental Research Letters,

<http://iopscience.iop.org/1748-9326/10/7/075005/article>

Bregaglio, S., Donatelli, M., **2015**. A set of components for the simulation of plant airborne diseases. Environmental Modelling and Software, 72: 426-444.

<http://www.sciencedirect.com/science/article/pii/S1364815215001589>

Paleari L., Cappelli G., Bregaglio S., Acutis M., Donatelli M., Sacchi G., Lupotto E., Boschetti M., Manfron G., Confalonieri R., **2015**. District specific, in silico evaluation of rice ideotypes improved for resistance/tolerance traits to biotic and abiotic stressors under climate change scenarios. Climatic Change, 661-675.

<http://link.springer.com/article/10.1007%2Fs10584-015-1457-4>

Holzworth D.P., Snow V., Janssen S., Athanasiadis I.N., Donatelli M., Hoogenboom G., White J.W., Thorburn P., **2015**. Agricultural production systems modelling and software: Current status and future prospects, Environmental Modelling & Software, 276-286.

<http://www.sciencedirect.com/science/article/pii/S1364815214003703>

Donatelli M., Bregaglio S., Confalonieri R., De Mascellis R., Acutis M. **2014**. A generic framework for evaluating hybrid models by reuse and composition – A case study on soil temperature simulation. Environmental Modelling & Software, volume 62, 478-486.

<http://dx.doi.org/10.1016/j.envsoft.2014.04.011>

Manici L. M., Bregaglio S., Fumagalli D., Donatelli M. **2014**. Modelling soil borne fungal pathogens of arable crops under climate change. International Journal of Biometeorology, 58, 10: 2071-2083.

<http://link.springer.com/article/10.1007%2Fs00484-014-0808-6>

Maiorano A., Cerrani I., Fumagalli D., Donatelli M., **2014**. New biological model to manage the impact of climate warming on maize corn borers. Agronomy for Sustainable Development, July 2014, Volume 34, Issue 3, 609-621.

<http://link.springer.com/article/10.1007%2Fs13593-013-0185-2>

Maiorano A., Fanchini D., Donatelli M., **2014**. MIMYCS.Moisture, a process-based model of moisture content in developing maize kernels. European Journal of Agronomy, 59, 86–95.

<http://dx.doi.org/10.1016/j.eja.2014.05.011>

Bojanowski, J.S., Donatelli M., Skidmore A.K., Vrieling A., **2013**. An auto-calibration procedure for empirical solar radiation models. Environmental Modelling and Software, 49:118-128.

<http://dx.doi.org/10.1016/j.envsoft.2013.08.002>

Bregaglio, S.; Donatelli, M.; Confalonieri, R. **2013**. Fungal infections of rice, wheat, and grape in Europe in 2030–2050. Agronomy for Sustainable Development, 33: 4,767-776

<http://link.springer.com/article/10.1007/s13593-013-0149-6>

- Maiorano, A., Bregaglio, S., Donatelli, M., Fumagalli, D., Zucchini, A. **2012**. Comparison of modelling approaches to simulate the phenology of the European corn borer under future climate scenarios. *Ecol. Model.* 245:65-74.
<http://dx.doi.org/10.1016/j.ecolmodel.2012.03.034>
- Bregaglio, S.; Cappelli, G.; Donatelli, M. **2012**. Evaluating the suitability of a generic fungal infection model for pest risk assessment studies. *Ecological Modelling* 247: 58-63
<http://www.sciencedirect.com/science/article/pii/S0304380012004012>
- Bregaglio S., Donatelli M., Confalonieri R., Acutis M., Orlandini S. **2011**. Multi metric evaluation of leaf wetness models for large-area application of plant disease models. *Agricultural and Forest Meteorology* 151, 1163–1172.
http://ac.els-cdn.com/S016819231100116X/1-s2.0-S016819231100116X-main.pdf?_tid=e0e20f30-b195-11e6-9378-00000aabb0f02&acdnat=1479916976_003049f2213a02b050313a576b82cf24
- Athanasiadis I. N., Rizzoli A. E., Donatelli M., Carlini L., **2011**. Enriching environmental software model interfaces through ontology-based tools. *Int. J. Advanced Systemic Studies*, 4,11:94-105
<http://www.inderscienceonline.com/doi/abs/10.1504/IJASS.2011.042205>
- Bellocchi G., Rivington M., Donatelli M., Matthews K. **2010**. Validation of biophysical models: issues and methodologies. A review. *Agronomy of Sustainable Development* 1, 109-130.
<http://link.springer.com/article/10.1051/agro/2009001>
- Bregaglio S., Donatelli M., Confalonieri R., Acutis M., Orlandini S. **2010**. An integrated evaluation of thirteen modelling solutions for the generation of hourly values of air relative humidity. *Theoretical and Applied Climatology*, 102:429–438.
<http://link.springer.com/article/10.1007/s00704-010-0274-y>
- Confalonieri, R.; Bellocchi, G.; Bregaglio, S.; Donatelli, M.; Acutis, M. **2010**. Comparison of sensitivity analysis techniques: A case study with the rice model WARM. *Ecological Modelling*, 221, 16, 1897-1906
<http://www.sciencedirect.com/science/article/pii/S0304380010002371>
- Confalonieri, R., Bellocchi, G., Donatelli, M. **2010**. A software component to compute agro-meteorological indicators. *Environmental Modelling & Software*, 25, 1485-1486
<http://www.sciencedirect.com/science/article/pii/S1364815208002144>
- Donatelli, M.; Bellocchi, G.; Habyarimana, E.; Bregaglio, S.; Baruth, B. **2010**. AirTemperature, extensible software library to generate air temperature data. *SRX Computer Science*, 1-8
<https://www.hindawi.com/archive/2010/812789/ref/>
- Semenov, M. A.; Donatelli, M.; Stratonovitch, P.; Chatzidaki, E.; Baruth B. **2010**. ELPIS: a dataset of local-scale daily climate scenarios for Europe. *Climate Research*. 44: 3–15.
http://www.int-res.com/articles/cr_oa/c044p003.pdf
- Donatelli M., G. Bellocchi, E. Habyarimana, R. Confalonieri, F. Micale, **2009**. An extensible software library to generate wind data. *Computers and Electronics in Agriculture*, 2,165-170
<http://www.sciencedirect.com/science/article/pii/S0168169909001549>
- Confalonieri R., Acutis M., Bellocchi G., Donatelli M. **2009**. Multi-metric evaluation of the model WARM, CropSyst, and WOFOST for rice. *Ecological Modelling*. 220, 1395-1410.
<http://www.sciencedirect.com/science/article/pii/S0304380009001495>
- Belhouchette H., Braudeau E., Hachicha M., Donatelli M., Mohtar R. H., Wery J. **2008**. Integrating spatial soil organization data with a regional agricultural management simulation model: a case study in northern Tunisia. *American Society of Agricultural and Biological Engineers* 51, 3: 1099-1109
<https://elibrary.asabe.org/abstract.asp?aid=24512>
- Rizzoli A.E., Donatelli M., Athanasiadis I.N., Villa F., Huber D. **2008**. Semantic links in integrated frameworks. *Mathematics and Computers in Simulation* 78: 412-423
<http://www.sciencedirect.com/science/article/pii/S0378475408000529>

- Van Ittersum M. K., Ewert F., Heckelei T., Olsson J. A., Andersen E., Bezlepina I., Brouwer F., Donatelli M., Flichman G., Olsson L., Rizzoli A., van der Wal T., Wery J., Wien J. E., Wolf J. **2008**. Integrated assessment of agricultural and environmental policies - A modular framework for the European Union (SEAMLESS) Agricultural Systems 96, 1-3, 150-165
http://www.seamless-ip.org/DVD_Consortium_SEAMLESS/6_Dissemination/SEAMLESS-overview-AGSY.pdf
- Rivington M. , Matthews K.B., Bellocchi G., Buchan K., Stöckle C.O. , Donatelli M. **2007**. An integrated assessment approach to conduct analyses of climate change impacts on whole-farm systems Environmental Modelling Software 22, 2:202-210
<http://www.sciencedirect.com/science/article/pii/S1364815205001805>
- Tubiello F. N., J. S. Amthor, K. Boote, M. Donatelli, W. Easterling, G. Fischer, R. Gifford, M. Howden, J. Reilly, C. Rosenzweig **2007**. Crop response to elevated CO₂ and world food supply European Journal of Agronomy 26, 3:215-223
<http://www.sciencedirect.com/science/article/pii/S1161030106001341>
- Carlini L., Bellocchi G., Donatelli M. **2006**. A Library to generate synthetic precipitation data. Agronomy Journal 98, 1312-1317
<https://dl.sciencesocieties.org/publications/aj/abstracts/98/5/1312>
- Donatelli M., Bellocchi G., Carlini L. **2006**. Sharing knowledge via software components: models on reference evapotranspiration European. Journal of Agronomy 24, 186-192
<http://www.sciencedirect.com/science/article/pii/S1161030105000754>
- Donatelli M., Carlini L., Bellocchi G. **2006**. A software component for estimating solar radiation Environmental Modelling and Software 21, 411-416
<http://www.sciencedirect.com/science/article/pii/S1364815205000794>
- Donatelli M., F.K. Van Evert **2006**. Formalizing expert knowledge for agricultural management simulation: the AgroManagemnt software component. Fragmenta Agronomica. 11-1:271-272
<http://www.narcis.nl/publication/RecordID/oai%3Alibrary.wur.nl%3Awurpubs%2F348504>
- Fila G., Donatelli M., Bellocchi G. **2006** PTFIndicator: an IRENE_DLL-based application to evaluate estimates from pedotransfer functions by integrated indices. Environmental Modelling and Software 21: 107-110
<http://www.sciencedirect.com/science/article/pii/S1364815205000034>
- Donatelli M., Acutis M., Bellocchi G., Fila G. **2004**. New indices to quantify patterns of residuals produced by model estimates. Agronomy Journal 96, 631-645
<https://dl.sciencesocieties.org/publications/aj/abstracts/96/3/0631>
- Acutis M., Donatelli M. **2003**. Soilpar 2.00: Software to estimate soil hydrological parameters and functions. European J. Agronomy 18, 373-377
<http://www.sciencedirect.com/science/article/pii/S1161030102001284>
- Donatelli M., Stöckle C.O., Nelson R.L., Bellocchi G. **2003**. ET_CSDLL: A Dynamic Link Library for the Computation of Reference and Crop Evapotranspiration Agronomy Journal 95, 1334-1336
<https://dl.sciencesocieties.org/publications/aj/abstracts/95/5/1334?access=0&view=pdf>
- Donatelli M., Bellocchi G. and Fontana F. **2003** RadEst 3.00: Software to estimate daily radiation data from commonly available meteorological variables European .J. Agronomy 18, 363-367
<http://www.sciencedirect.com/science/article/pii/S1161030102001302>
- Donatelli, M., J. Bolte, F. van Evert and W. Wang, **2003** Which software designs for evolution. In: van Ittersum M.K., Donatelli M. (Eds.), Modelling cropping systems: science, software and applications. European Journal of Agronomy 18, 187-197.
<http://www.sciencedirect.com/science/article/pii/S1161030102000953>
- Fila G., Bellocchi G., Acutis M., Donatelli M. **2003** Irene: a software to evaluate model performance. European J. Agronomy 18 369-372.
<http://www.sciencedirect.com/science/article/pii/S1161030102001296>
- Fila G., Bellocchi G., Donatelli M., Acutis M. **2003** IRENE_DLL: A class library for evaluating numerical estimates. Agronomy Journal 95 1330-1333.

- <https://dl.sciencesocieties.org/publications/aj/abstracts/95/5/1330?access=0&view=pdf>
Paoletti C., Donatelli M., Kay S. and Van den Eede G. **2003** Simulating kernel lot sampling: the effect of heterogeneity on the detection of GMO contaminations. *Seed Science Technology* 31, 629-638
<http://www.ingentaconnect.com/contentone/ista/sst/2003/00000031/00000003/art00012?crawler=true>
- Stöckle C.O., Donatelli M. and Nelson R.L. **2003** CropSyst, a cropping systems simulation model *European J. Agronomy* 18, 289-307
<http://www.sciencedirect.com/science/article/pii/S1161030102001090>
- Bellocchi G., Acutis M., Fila G., Donatelli M. **2002** An indicator of solar radiation model performance based on a fuzzy expert system *Agronomy Journal* 94, 1222-1233
<https://dl.sciencesocieties.org/publications/aj/abstracts/94/6/1222>
- Donatelli M., van Ittersum M.K., Bindi M. and Porter J.R. **2002**. Modelling cropping systems - highlights of the symposium and preface to the special issue *European J. Agronomy* 18, 1-11
<http://www.sciencedirect.com/science/article/pii/S1161030102001041>
- Meinke H., Baethgen W.E., Carberry P.S., Donatelli M., Hammer G.L., Selvaraju R. and Stöckle C.O. **2001** Increasing profits and reducing risks in crop production using participatory systems simulation approaches *Agricultural Systems* 70, 493-513
<http://www.sciencedirect.com/science/article/pii/S0308521X01000579>
- Bechini L., Ducco G., Donatelli M. and Stein A. **2000** Modelling, interpolation and stochastic simulation in space and time of global solar radiation. *Agriculture Ecosystem & Environment*. 81, 29-42
<http://www.sciencedirect.com/science/article/pii/S0167880900001705>
- Gabrielle B., Agostini F. and Donatelli M. **2000** Limits to the Accuracy of the Water Component of a Decision-Support-Oriented Agronomic Model *Italian Journal for Agronomy* 3, 87-99.
http://www.siaagr.org/public/rivista/3_2_3.pdf
- Tubiello N.F., Donatelli M., Rosenzweig C. and Stöckle C.O. **2000** Effects of climate change and elevated CO₂ on cropping systems: model predictions at two Italian locations. *European Journal for Agronomy* 13, 179-189
<http://www.sciencedirect.com/science/article/pii/S1161030100000733>
- Donatelli M., C. Stöckle, R. Nelson, C. Gardi, M. Bittelli and G. Campbell **1999** Using the software cropsyst and arcview in evaluating the effect of management in cropping systems in two areas of the low Po valley, Italy. *Rev. de Ciencias Agrarias.*, XXII, 1:87-108
http://agris.fao.org/agris-search/search.do?sessionId=3EC3ECB78938655CF8750AD9FFB1C000?request_locale=es&recordID=PT1999000389&sourceQuery=&query=&sortField=&sortOrder=&agrovocString=&advQuery=¢erString=&enableField=
- Stöckle C. O., M. Donatelli **1997** The CropSyst Model: A brief description. *Rotation models for ecol. Farming Quantitative Approaches in Systems Analysis* No. X. AB-DLO, P.O.Box 14, 6700 AA Wageningen, The Netherlands X:35-43
<http://edepot.wur.nl/336046>
- Donatelli M., Stöckle C.O., Ceotto E. and Rinaldi M. **1997** Evaluation of CropSyst for cropping systems at two locations of northern and southern Italy. *European J. Agronomy* 6/1-2, 35-45
<http://www.sciencedirect.com/science/article/pii/S1161030196020291>
- Marchetti R., Donatelli M. and Spallacci P. **1997** Testing Denitrification Functions of Dynamic Crop Models. *Journal of Environmental Quality*. 26, 394-401.
<https://dl.sciencesocieties.org/publications/jeq/abstracts/26/2/JEQ0260020394>
- Donatelli M., Hammer G.L. and Vanderlip R.L. **1992** Genotype and water limitation effects on phenology, growth, and transpiration efficiency in grain sorghum. *Crop Science* 32, 781-786.
<https://dl.sciencesocieties.org/publications/cs/abstracts/32/3/CS0320030781>

International, congress papers

- Bregaglio S., Donatelli M., Confalonieri R., Acutis M. **2012**. Comparing modelling solutions at submodel level: a case on soil temperature simulation. In: International Environmental Modelling and Software Society (iEMSs), 2012 International Congress on Environmental Modelling and Software, Managing Resources of a Limited Planet, Sixth Biennial Meeting, Leipzig, Germany, R. Seppelt, A.A. Voinov, S. Lange, D. Bankamp (Eds.).
- Confalonieri R., Bregaglio S., Stella T., Negrini G., Acutis M., Donatelli M., **2012**. An extensible, multi-model software library for simulating crop growth and development. In: International Environmental Modelling and Software Society (iEMSs), 2012 International Congress on Environmental Modelling and Software, Managing Resources of a Limited Planet, Sixth Biennial Meeting, Leipzig, Germany, R. Seppelt, A.A. Voinov, S. Lange, D. Bankamp (Eds.).
- Confalonieri R., Donatelli M., Bregaglio S., Tubiello F.N., Fernandes E. **2012**. Agroecological Zones Simulator (AZS): A component based, open-access, transparent platform for climate change – Crop productivity impact assessment in Latin America. In: International Environmental Modelling and Software Society (iEMSs), 2012 International Congress on Environmental Modelling and Software, Managing Resources of a Limited Planet, Sixth Biennial Meeting, Leipzig, Germany, R. Seppelt, A.A. Voinov, S. Lange, D. Bankamp (Eds.).
- Donatelli M., Srivastava A., Duveiller G., Niemeyer S. **2012**. Estimating Impact Assessment and Adaptation Strategies under Climate Change Scenarios for Crops at EU27 Scale. In: International Environmental Modelling and Software Society (iEMSs), 2012 International Congress on Environmental Modelling and Software, Managing Resources of a Limited Planet, Sixth Biennial Meeting, Leipzig, Germany, R. Seppelt, A.A. Voinov, S. Lange, D. Bankamp (Eds.).
- Donatelli M., Cerrani I., Fanchini D., Fumagalli D., Rizzoli A. **2012**. Enhancing Model Reuse via Component-Centered Modeling Frameworks: the Vision and Example Realizations. In: International Environmental Modelling and Software Society (iEMSs), 2012 International Congress on Environmental Modelling and Software, Managing Resources of a Limited Planet, Sixth Biennial Meeting, Leipzig, Germany, R. Seppelt, A.A. Voinov, S. Lange, D. Bankamp (Eds.).
- Donatelli M., Fumagalli D., Zucchini A., Duveiller G., Nelson R.L., Baruth B. **2012**. A EU27 Database of Daily Weather Data Derived from Climate Change Scenarios for Use with Crop Simulation Models. In: International Environmental Modelling and Software Society (iEMSs), 2012 International Congress on Environmental Modelling and Software, Managing Resources of a Limited Planet, Sixth Biennial Meeting, Leipzig, Germany, R. Seppelt, A.A. Voinov, S. Lange, D. Bankamp (Eds.).
- Maiorano A., Donatelli M., Fumagalli D. **2012** Potential distribution and phenological development of the Mediterranean Corn Borer (*Sesamia nonagrioides*) under warming climate in Europe. In: International Environmental Modelling and Software Society (iEMSs), 2012 International Congress on Environmental Modelling and Software, Managing Resources of a Limited Planet, Sixth Biennial Meeting, Leipzig, Germany, R. Seppelt, A.A. Voinov, S. Lange, D. Bankamp (Eds.).
- Manici L., Donatelli M., Fumagalli D., Lazzari A., Bregaglio S. **2012** Potential Response of Soil-Borne Fungal Pathogens Affecting Crops to a Scenario of Climate Change in Europe. In: International Environmental Modelling and Software Society (iEMSs), 2012 International Congress on Environmental Modelling and Software, Managing Resources of a Limited Planet, Sixth Biennial Meeting, Leipzig, Germany, R. Seppelt, A.A. Voinov, S. Lange, D. Bankamp (Eds.).
- Nesic S., Rizzoli A., Schimak G., Avellino G., Hrebíček J., Kaufmann A., Donatelli M. **2012**. Semantic annotation of environmental resources: Does it really matter to resource users? In: International Environmental Modelling and Software Society (iEMSs), 2012 International Congress on Environmental Modelling and Software, Managing Resources of a Limited

- Planet, Sixth Biennial Meeting, Leipzig, Germany, R. Seppelt, A.A. Voinov, S. Lange, D. Bankamp (Eds.).
- Bregaglio, S., Confalonieri, R., Donatelli, M., **2011**. Linking models for abiotic and biotic stress to crop models. ECEM 2011 - Ecological hierarchy from the genes to the biosphere. Book of Abstracts, 7th European Conference on Ecological Modelling, 30 May - 2 June 2011, Riva del Garda (Trento, Italy), 151 pp.
- Donatelli, M., Bregaglio, S., Cerrani, I., Confalonieri, R., Fanchini, D., Fumagalli, D., Niemeyer, S., **2011**. The software platform BioMA and reusable components for biophysical simulation. ECEM 2011 - Ecological hierarchy from the genes to the biosphere. Book of Abstracts, 7th European Conference on Ecological Modelling, 30 May - 2 June 2011, Riva del Garda (Trento, Italy), 151 pp.
- Maiorano, A., Bregaglio, S., Fumagalli, D., Donatelli, M., **2011**. Models for pest development simulation under climate scenarios. ECEM 2011 - Ecological hierarchy from the genes to the biosphere. Book of Abstracts, 7th European Conference on Ecological Modelling, 30 May - 2 June 2011, Riva del Garda (Trento, Italy), 151 pp.
- Donatelli, M., G. Bellocchi, E. Habyarimana, S. Bregaglio, R. Confalonieri, and B. Baruth. **2009**. CLIMA, a modular weather generator. In Anderssen, R.S., R.D. Braddock and L.T.H. Newham (eds) 18th World IMACS Congress and MODSIM09 International Congress on Modelling and Simulation. Modelling and Simulation Society of Australia and New Zealand and International Association for Mathematics and Computers in Simulation, July 2009, pp. 852-858. ISBN: 978-0-9758400-7-8.
http://www.mssanz.org.au/modsim09/C3/donatelli_C3a.pdf
- Donatelli, M., R. Confalonieri, I. Cerrani, D. Fanchini, M. Acutis, S. Tarantola, and B. Baruth. **2009**. LUISA (Library User Interface for Sensitivity Analysis): a generic software component for sensitivity analysis of bio-physical models. In Anderssen, R.S., R.D. Braddock and L.T.H. Newham (eds) 18th World IMACS Congress and MODSIM09 International Congress on Modelling and Simulation. Modelling and Simulation Society of Australia and New Zealand and International Association for Mathematics and Computers in Simulation, July 2009, pp. 859-865. ISBN: 978-0-9758400-7-8.
http://www.mssanz.org.au/modsim09/C3/donatelli_C3b.pdf
- Confalonieri, R., M. Donatelli, M. Acutis, G. Bellocchi, C. Lazar, D. Fanchini, B. Baruth, and F. Tubiello. **2009**. Simulating crop damages due to abiotic events: case studies using the AbioticDamage model library. In Anderssen, R.S., R.D. Braddock and L.T.H. Newham (eds) 18th World IMACS Congress and MODSIM09 International Congress on Modelling and Simulation. Modelling and Simulation Society of Australia and New Zealand and International Association for Mathematics and Computers in Simulation, July 2009, pp. 498-504. ISBN: 978-0-9758400-7-8. <http://www.mssanz.org.au/modsim09/B1/confalonieri.pdf>
- Donatelli M., Rizzoli A. **2008** A design for framework-independent model components of biophysical systems International Congress on Environmental Modelling and Software iEMSs 2008 Proceedings of the iEMSs Fourth Biennial Meeting, Barcelona, Catalonia 7-10 July 2008: 727-734
- Acutis M., Donatelli M., Lanza Filippi G. **2008** PTF: an Extensible Component for Sharing and Using Knowledge on Pedo-Transfer Functions International Congress on Environmental Modelling and Software iEMSs 2008 Proceedings of the iEMSs Fourth Biennial Meeting, Barcelona, Catalonia 7-10 July 2008: 759-765
- Bellocchi G., Donatelli M., Acutis M., Habyarimana E. **2008** A Software Component for Model Output Evaluation International Congress on Environmental Modelling and Software iEMSs 2008 Proceedings of the iEMSs Fourth Biennial Meeting, Barcelona, Catalonia 7-10 July 2008: 1063-1069
- Criscuolo L., Donatelli M., Bellocchi G., Acutis M. 2007 A component and a software application for model output evaluation Farming Systems Design **2007** - Field-farm scale design and improvement Catania, 10-12 September 2007: 211-212

- Confalonieri R., Acutis M., Donatelli M., Bellocchi G., Genovese G. **2007** Sensitivity analysis of the model warm in five european rice districts using different methods: Morris and Sobol Farming Systems Design 2007 - Field-farm scale design and improvement Catania, 10-12 September 2007: 203-204
- Confalonieri R., Acutis M., Bellocchi G., Cerrani I., Tarantola S., Donatelli M., Genovese G. **2007** Exploratory sensitivity analysis of Cropyst, WARM and WOFOST: a case-study with rice biomass simulations Italian Journal of Agrometeorology 11, 3, :17-25
- Bellocchi G., Confalonieri R., Donatelli M. **2007** Crop modelling and validation: integration of IRENE_DLL in the WARM environment Italian Journal of Agrometeorology (in press)
- Ceotto E., Donatelli M. **2007** A software component for energy balance computations in agricultural production systems Farming Systems Design 2007 - Field-farm scale design and improvement Catania, 10-12 September 2007: 209-210
- Di Guardo A., Donatelli M., Botta M. **2007** Two framework-independent components for applications to simulate biophysical systems Farming Systems Design 2007 - Field-farm scale design and improvement Catania, 10-12 September 2007: 215-216
- Donatelli M., Ceotto E., Acutis M. **2007** A software component to simulate agro-management Farming Systems Design 2007 - Field-farm scale design and improvement Catania, 10-12 September 2007: 217-218
- Donatelli M., Rizzoli A. **2007** A design for framework-independent model components of biophysical systems Farming Systems Design 2007 - Field-farm scale design and improvement Catania, 10-12 September 2007: 219-220
- Meira S., Guevara E., Donatelli M., Bellocchi G., Penalba O., Boulanger J. P. **2007** Climate change impact assessment on cropping systems: a case study at three sites of the pampas region Farming Systems Design 2007 - Farm-regional scale design and improvement Catania, 10-12 September 2007: 205-206
- M. Rivington, K.B. Matthews, G. Bellocchi, K. Buchanan, C.O. Stöckle and M. Donatelli **2007** An integrated assessment approach to conduct analyses of climate change impacts on whole-farm systems Environmental Modelling and Software 22, 2:202-210
- Confalonieri R., Bellocchi G., Donatelli M., Rivington M., Matthews K. **2007** Climindices: a software component to compute agro-meteorological indicators Farming Systems Design 2007 - Field-farm scale design and improvement Catania, 10-12 September 2007: 207-208
- Athanasiadis, I. N., A. E. Rizzoli, M. Donatelli, L. Carlini **2006**. Enriching software model interfaces using ontology-based tools iEMSs congress, Vermont, July 2006 http://www.iemss.org/iemss2006/papers/s5/284_Athanasiadis_1.pdf
- Donatelli, M., F.K. van Evert, A. Di Guardo, M. Adam, K. Kansou **2006** A component to simulate agricultural management iEMSs congress, Vermont, USA, July 2006 http://www.iemss.org/iemss2006/papers/s5/281_Donatelli_1.pdf
- Van Ittersum, M., F. Ewert, J. A. Olsson, Erling Andersenc, I. Bezlepkinad, F. Brouwer, M. Donatelli, G. Flichman, T. Heckeley, L. Olsson, A. Oude Lansink, A. Rizzoli, T. van der Wall, J. Wery **2006**. Integrated assessment of agricultural and environmental policies – towards a computerized framework for the EU (SEAMLESS-IF) iEMSs congress, Vermont, July 2006
- Villa, F., M. Donatelli, A. Rizzoli, P. Krause, S. Kralisch, F. K. van Evert **2006**. Declarative modelling for architecture independence and data/model integration: a case study iEMSs congress, Vermont, July 2006 http://www.iemss.org/iemss2006/papers/s5/278_Villa_1.pdf
- Donatelli M., Carlini L., Bellocchi G. **2005**. Software components for agro-meteorology: air temperature and wind speed generation ASA-CSSA-SSSA International Annual Meetings
- Donatelli, M., G. Bellocchi, L. Carlini, M. Colauzzi **2005** CLIMA: a component-based weather generator MODSIM, Melbourne, Australia 627-633
- Rizzoli, A.E., M. Donatelli, I. Athanasiadis, F. Villa, R. Muetzelfeldt, D. Huber **2005** Semantic links in integrated modelling frameworks MODSIM, Melbourne, Australia 704-710

- Paoletti C., Donatelli M., Heissenberger A., Grazioli E., Larcher S., Van den Eede G. **2005** European Union Perspective — Sampling for Testing of GMO Sampling and Blending Conference, Sunshine Coast, QLD, Australia, 9 - 12 May 2005 209-213
- Donatelli M., Acutis M., Bellocchi G. **2005** An extensible software library of pedotransfer functions ASA-CSSA-SSSA International Annual Meetings
- Donatelli M., Omicini A., Fila G., Monti C. **2004** Targeting reusability and replaceability of simulation models for agricultural systems Proc. of the VIII ESA Congress Copenhagen, Denmark, 237-238
- Donatelli M., van Ittersum M.K., Wery J., Ewert F., Stutzel H., Rizzoli A. **2004** Designing models for evaluation of farm productivity and externalities Proc. of the VIII ESA Congress Copenhagen, Denmark, 599-600
- Donatelli M., Carlini L., Bellocchi G., Fila G. **2004** Clima: software component for weather generation and estimation Proc. of the VIII ESA Congress Copenhagen, Denmark, 239-240
- Bellocchi G., Rivington M., Matthews K.B., Buchan K., Donatelli M. **2004** Scenario characterization within a multi-factorial study of climate change impacts on whole-farm systems Proc. of the VIII ESA Congress Copenhagen, Denmark, 219-220
- Bellocchi G., Smith J. Donatelli M., Smith P. **2004** Improvements in time mismatch analysis of model estimates Proc. of the VIII ESA Congress Copenhagen, Denmark, 221-222
- Bellocchi G., Donatelli M., Fila G., Bechini L., Monti C. **2004** Designing a farming system simulator Proc. of the VIII ESA Congress Copenhagen, Denmark, 579-580
- Fila G., Donatelli M., Sacco P., Mazzetto F. **2004** An agent-oriented approach to simulate real time management in a farm production system model Proc. of the VIII ESA Congress Copenhagen, Denmark, 505-506
- Fila G., Donatelli M., Bellocchi G. **2004** An Irene_DLL-based application to evaluate estimates from pedotransfer functions by integrated indices Proc. of the VIII ESA Congress Copenhagen, Denmark, 253-254
- Maestrini C., Fontana F., Donatelli M., Bellocchi G., Poggiolini S. **2004** A frame to model specific leaf area in sugar beet Proc. of the VIII ESA Congress Copenhagen, Denmark, 301-302
- Rizzoli A.E., Donatelli M., Muetzelfelds R., Otjens T., Svensson M.G.E., van Evert F., Villa F., Bolte J. **2004** Seamframe, a proposal for an integrated modelling framework for agricultural systems Proc. of the VIII ESA Congress Copenhagen, Denmark, 331-332
- Paoletti C., Donatelli M., Grazioli E., Van den Eede G. **2003** GMOs analysis in large kernel lots: modelling sampling of non-randomly distributed contaminants Proc. 1st Eur. Conf. Co-exist. GMO, Denmark 119-122
- Fila G., M. Donatelli, G. Bellocchi **2002** Developing dynamic link libraries for agrometeorology and agricultural modelling Proc. of the VII ESA Congress Córdoba, Spain, 285-286
- Braudeau E., M. Donatelli, M. Acutis **2002** Estimating soil shrinkage curve parameters in the software soilpar Proc. of the VII ESA Congress Córdoba, Spain, 249-250
- Bellocchi G., G. Fila, M. Donatelli **2002** Integrated evaluation of cropping systems models by fuzzy-based procedure Proc. of the VII ESA Congress Córdoba, Spain, 241-242
- Bellocchi G., M. Donatelli, G. Fila **2002** Calculating evapotranspiration and crop biomass using estimated radiation inputs Proc. of the VII ESA Congress Córdoba, Spain, 243-244
- Donatelli M., C. Paoletti, S. Kay and G. Van den Eede **2002** Simulating kernel lot sampling: estimating the effect of heterogeneity on the detection of GMO contaminations Proc. of the VII ESA Congress Córdoba, Spain, 267-268
- Donatelli M., M. Acutis, F. Danuso, F. Mazzetto, P. Nasuelli, R. Nelson, A. Omicini, M. Speroni, M. Trevisan and V. Tugnoli **2002** Integrated procedures for evaluating technical, environmental and economical aspects in farms: the SIPEAA Project Proc. of the VII ESA Congress Córdoba, Spain, 271-272
- van Ittersum M. K., M. Donatelli, T. H. Jetten **2002** Towards an integrated system for agro-ecological and environmental modelling Proc. of the VII ESA Congress Córdoba, Spain, 335-336

- Paoletti C., M. Donatelli, G. Van den Eede **2002** Models for sampling of GM-containing seed and grain lots Proc. EuroAnalysis-12 Conf. Dortmund University, Germany
- Donatelli M., G. Bellocchi **2001** RADEST 3.0: software for the estimation of the solar global radiation Workshop Naz.le di Agrometeorologia Milano - Italia, 33-43
- Belhouchette H., M. Donatelli, E. Braudeau, J. Wery **2001** Test of cropping systems model CropSyst in tunisian conditions 2nd Int. Symp. Modell. Crop. System Florence, Italy, 47-48
- Braudeau E., M. Donatelli **2001** Parameters estimation of the soil characteristic shrinkage curve 2nd Int. Symp. Modell. Crop. System Florence, Italy, 53-54
- Acutis M., A. Mdaghri-Alaoui, N. Jarvis, M. Donatelli **2001** A software for sensitivity analysis, calibration and inversion of macro model 2nd Int. Symp. Modell. Crop. System Florence, Italy, 207-208
- Acutis M., M. Donatelli **2001** Soilpar 2.00: software to estimate soil hydrological parameters and functions 2nd Int. Symp. Modell. Crop. System Florence, Italy, 209-210
- Donatelli M., G. Bellocchi **2001** Estimate of daily global solar radiation: new developments in the software radest 3.00 2nd Int. Symp. Modell. Crop. System Florence, Italy, 213-214
- Donatelli M., M. Acutis, G. Fila and G. Bellocchi **2002** A method to quantify time mismatch of model estimates Proc. of the VII ESA Congress Córdoba, Spain, 269-270
- Fila G., G. Bellocchi, M. Donatelli, M. Acutis **2001** Irene: a software to evaluate model performance 2nd Int. Symp. Modell. Crop. System Florence, Italy, 215-216
- Bellocchi G., M. Acutis, M. Donatelli, G. Fila **2001** An indicator of solar radiation model performance based on fuzzy rules 2nd Int. Symp. Modell. Crop. System Florence, Italy, 49-50
- Stöckle C. O., R. Nelson, M. Donatelli, F. Castellvi **2001** Climgen: a flexible weather generation program 2nd Int. Symp. Modell. Crop. System Florence, Italy, 229-230
- Donatelli M., G. S. Campbell **1999** RADEST, a program to estimate global solar radiation Proc. Symp. Modelling Crop. Systems Lleida, Spain, 289-290
- Acutis M., M. Donatelli, C. O. Stöckle **1999** Performances of two weather generators as a function of the number of available years of measured climatic data Proc. Symp. Modelling Crop. Systems Lleida, Spain, 129-130
- Fontana F., M. Donatelli **1999** Weatherfile, a program to convert weather files format Proc. Symp. Modelling Crop. Systems Lleida, Spain, 293-294
- Richter G. M., F. Agostini, M. Donatelli, P. Smith and J. Smith **1999** Modelling the N-dynamics of a wheat-sugar beet rotation at different complexity Proc. Symp. Modelling Crop. Systems Lleida, Spain, 239-240
- Smith P., T. Nemeth, L. Shevtsova, V. Romanenkov, M. Donatelli, J. Smith, G. Dailey, G. Csokli, L. Pasztor, J. Szabo and N. Milashenko **1999** Modelling soil sustainability in eastern europe following the political changes of the early 1990s: the LASSEE Project Proc. Symp. Modelling Crop. Systems Lleida, Spain, 255-256
- Smith P., A. Whitmore, F. Wechsung, M. Donatelli, K. Coleman, X. Yin, W. Cramer, J. Smith and F. Agostini **1999** A regional-scale tool for examining the effects of global change on agro-ecosystems: the magec project Proc. Symp. Modelling Crop. Systems Lleida, Spain, 257-258
- Bindi M., M. Donatelli, L. Fibbi and C. O. Stöckle **1999** Estimating the effect of climate change on cropping systems at four european sites Proc. Symp. Modelling Crop. Systems Lleida, Spain, 147-148
- Donatelli M., C. O. Stöckle, R. Nelson, R. Francaviglia **1998** Evaluating cropping systems in lowland areas of Italy using the cropping system simulation model CropSyst and the GIS software ArcView Proc. of the 7th ICCTA Conference Firenze, Italy, 114-121
- Donatelli M., C. S. Campbell **1998** A simple model to estimate global solar radiation 5th Cong. ESA Nitra, The Slovak Republic, 133-134
- Tubiello F., M. Donatelli, C. Rozenweig, C. O. Stöckle **1998** Cropping systems in Italy as affected by doubling the air carbon dioxide concentration Proc. of the 5th ESA Congress Nitra, Slovak Republic, 97-98

- Ducco G., L. Bechini, M. Donatelli, V. Marletto **1998** Estimate and spatial interpolation of global solar radiation in the po valley Proc. of the 5th ESA Congress Nitra, Slovak Republic, 139-140
- Gardi C., M. Donatelli, G. Vianello **1998** Land use optimization on the basis of agricultural capability and physical-mechanical characteristics of soil Proc. of the ISSS Congress Montpellier, France
- Acutis M., M. Donatelli, C. O. Stöckle **1998** Comparison of the performance of three weather generators Proc. of the 5th ESA Congress Nitra, Slovak Republic, 117-118
- Donatelli M., C. O. Stöckle, R. Nelson **1998** Regionalised use of a simulation model to evaluate cropping systems in two areas of the low po valley, Italy Proc. of the 5th ESA Congress Nitra, Slovak Republic, 135-136
- Donatelli M., C. Stöckle, E. A. Costantini, R. Nelson **1998** SOILR: A model to estimate soil moisture and temperature regimes Proc. of the ISSS Congress Montpellier, France
- Ceotto E., M. Donatelli, R. Marchetti and P. Spallacci **1996** Nutrient balance at farm level for cropping systems in the po valley, Italy Proc. 4th Eur. Society of Agronomy Veldhoven, The Netherlands, 454-455
- Donatelli M., M. Acutis and N. Laruccia **1996** Evaluation of methods to estimate soil water content at field capacity and wilting point Proc. 4th Eur. Society of Agronomy Veldhoven, The Netherlands, 86-87
- Donatelli M., P. Spallacci, R. Marchetti and R. Papini **1996** Evaluation of CropSyst simulations of water balance and soil nitrate content following organic and mineral fertilization applied to maize Proc. 4th Eur. Society of Agronomy Veldhoven, The Netherlands, 342-343
- Donatelli M., P. Spallacci **1995** Some potential applications of simulation models for cropping systems in Italy Appl. Crop Mod. Decis. Supp. Syst. -
- Spallacci P., E. Ceotto, M. Donatelli, R. Papini **1994** Epic and cropsyst evaluation in predicting corn growth, and soil water and nitrate content at two levels of N fertilization Proc. III ESA Congress Abano-Padova, Italy, 412-413
- Donatelli M., V. Marletto **1994** Estimating surface solar radiation by means of air temperature 3rd ESA Congress Abano (PD), Italy, 352-353
- Ceotto E., M. Donatelli, F. Castelli and P. Spallacci **1994** Cropsyst validation for soil content of water and nitrate at two locations of northern Italy Proc. III ESA Congress Abano-Padova, Italy, 334-335
- Donatelli M., E. Ceotto, R. Marchetti and P. Spallacci **1994** CSYMBA: a PC based shell for cropping systems simulation model development Proc. III ESA Congress Abano-Padova, Italy, 348-349
- Donatelli M., R. Marchetti and F. Zinoni **1994** A multi-crop submodel to predict emergence time: model definition and preliminary testing Proc. III ESA Congress Abano-Padova, Italy, 350-351
- Marchetti R., M. Donatelli **1994** Seedlings of different species developmental response to temperature Abano-Padova, Italy -, 176-177
- Spallacci P., E. Ceotto, R. Papini, F. Castelli, M. Donatelli **1994** Evaluation of epic in simulating water and nitrate contents of the soil using crop rotations at two Italian locations Proc. "Modeling the fate of agroc..." Venice, Italy, 91-108
- Marchetti R., M. Donatelli, P. Spallacci **1994** A comparison of sub models for denitrification estimation Proc. III ESA Congress Abano-Padova, Italy, 388-389
- Vender C., D. Cremaschi, M. Donatelli **1990** Yield performance of six cultivars of potato (*Solanum tuberosum*, L.) originated from tubers, micropropagated plants, and long-stand plants. Proc. 11th Trienn. Conference EAPR Edinburg, Great Britain, 524-525
- Donatelli M., R. L. Vanderlip and G. L. Hammer **1989** Genotype by environment interaction for transpiration efficiency in grain sorghum Proc. 5th Australian Agronomy Conf. Perth, Australia, 652-653

- Hammer G. L., M. Donatelli, G. D. Farquhar, K. T. Hubick, R. L. Vanderlip and L. J. Wade **1989** Radiation use efficiency, water use efficiency, and crop improvement in grain sorghum Proc. Australian Sorghum Workshop Toowoomba, Australia, 184-191
- Donatelli M., G. Mariani and R. L. Vanderlip **1987** Determination of Base Temperature and Photoperiodic Effect on Flowering Time for Grain Sorghum Grown in Southern Europe Annual Meetings Atlanta, Georgia.

Reports to the European Commission

- Donatelli M., S. Bregaglio, D. Fumagalli, B. Baruth, **2012**. Model framework for the assessment of EU climatic suitability for the establishment of organisms harmful to plants and plant products – CLIMPEST project (SLA/EFSA-JRC/2008/PLH/01). EFSA External Scientific Report, Supporting Publications 2012: EN-247.
http://www.efsa.europa.eu/sites/default/files/scientific_output/files/main_documents/247e.pdf
- Donatelli M., Duveiller G., Fumagalli D., Srivastava A., Zucchini A., Angileri V., Fasbender D., Loudjani P., Kay S., Juskevicius V., Toth T., Haastrup P., M'barek R., Espinosa M., Ciaian P., Niemeyer S. **2011** Assessing Agriculture Vulnerabilities for the design of Effective Measures for Adaption to Climate Change – AVEMAC project.
http://mars.jrc.ec.europa.eu/mars/content/download/2677/13635/file/AVEMAC_FinalReport.pdf
- Ciscar J.C., L. Feyen, A. Soria, C. Lavallo, F. Raes, M. Perry, F. Nemry, H. Demirel, M. Rozsai, A. Dosio, M. Donatelli, A. Srivastava, D. Fumagalli, S. Niemeyer, S. Shrestha, P. Ciaian, M. Himics, B. Van Doorslaer, S. Barrios, N. Ibáñez, G. Forzieri, R. Rojas, A. Bianchi, P. Dowling, A. Camia, G. Libertà, J. San-Miguel-Ayanz, D. de Rigo, G. Caudullo, J-I. Barredo, D. Paci, J. Pycroft, B. Saveyn, D. Van Regemorter, T. Revesz, T. Vandyck, Z. Vrontisi, C. Baranzelli, I. Vandecasteele, F. Batista e Silva, D. Ibarreta. **2013**. Climate Impacts in Europe - The JRC PESETA II project.
https://www.researchgate.net/publication/261509684_Climate_Impacts_in_Europe_-_The_JRC_PESETA_II_project._%28complete_report%29
- ### Italian, peer reviewed
- Bellocchi G., Confalonieri R., Donatelli M. **2007** Crop modelling and validation: integration of IRENE_DLL in the WARM environment ItalianJournalAgrometeorology, 3:35-39
- Confalonieri R., Acutis M., Bellocchi G., Cerrani I., Tarantola S., Donatelli M., Genovese G. **2007** Exploratory sensitivity analysis of Cropyst, WARM and WOFOST: a case-study with rice biomass simulations ItalianJournalAgrometeorology 3:17-25
- Confalonieri R., Acutis M., Donatelli M., Bellocchi G., Mariani L., Boschetti M., Stroppiana D., Bocchi S., Vidotto F., Sacco D., Grignani C., Ferrero A., Genovese G. **2005** WARM: a scientific group on rice modelling Italian Journal of Agrometeorology 2, 54-60
- Donatelli M., Carlini L., Bellocchi G. **2004** GSRad, un componente software per la stima della radiazione solare Rivista di Agrometeorologia 1. 24-30
- Bellocchi G., Donatelli M., Fila G. **2003** Evaluation of estimated radiation data for calculating evapotranspiration and crop biomass Ital. J. Agron. 2, 95-102.
- Donatelli M., Acutis M., Danuso F. **2003** Valutazione dei modelli di simulazione. In: Mobilità dei prodotti fitosanitari nel suolo, E. Capri e R. Francaviglia ed., Quad. Panda no.2 , Agr. Ric. 190:75-98
- Poggiolini S., M. Donatelli, L. Barbanti, U. Peruch, C. Ribeyra and G. Bellocchi **2002** Stima della qualità in barbabietola da zucchero (Beta vulgaris L., var. saccharifera): prime esperienze con l'uso del modello CropSyst Agroindustria 1, 139-145
- Danuso F., M. Donatelli **2002** La simulazione dei sistemi colturali Verso un approccio integrato. In: Verso un approccio integrato allo studio dei sistemi colturali, E. Bonari e P. Ceccon Ed., Franco Angeli, 73-119

- Danuso F., R. Giovanardi, M. Donatelli **2001** Applicazioni agronomiche delle conoscenze pedologiche Bollet. Soc. Ital. Scienza Suolo 50, 251-279
- Franca viglia R., M. Donatelli, C. Stöckle, A. Marchetti **2001** Applicazione del sistema arcvview-cropsyst nella valutazione della percolazione di acqua e della lisciviazione di nitrati Bollet. Soc. Ital. Scienza Suolo 50, 157-164
- Spallacci P., R. Marchetti, R. Papini, M. Donatelli **1997** Bilancio dell'azoto per la coltura di mais trattata con liquami suini e urea di sintesi in terreno argilloso di pianura Agricoltura Ricerca 168, 57-68
- Ceotto E., M. Donatelli, R. Marchetti and P. Spallacci **1996** Confronto tra sistemi colturali cerealicolo-industriali fertilizzati con concimi minerali e liquami suini nella bassa Pianura Padana Agricoltura Ricerca 164-165-166, 201-208
- Donatelli M., E. Ceotto, R. Marchetti **1996** Alcune problematiche dell'uso di modelli per la simulazione di sistemi colturali nella valutazione di aspetti economici e di impatto ambientale Agricoltura Ricerca 164-165-166, 19-24
- Donatelli M. **1996** Ricerche sull'utilizzazione di modelli applicati ai sistemi colturali: attività del gruppo 9 nel biennio 1993-94 Agricoltura Ricerca 163, 72-78
- Ceotto E., M. Donatelli **1997** Simulazione di sistemi colturali nella bassa pianura padana con il modello EPIC Agricoltura Ricerca 171, 59-66
- Destro S., M. Donatelli, E. Ceotto **1997** Uso del modello EPIC per definire elementi di bilancio in una contabilità ambientale per aziende agricole Agricoltura Ricerca 172, 21-28
- Ceotto E., M. Donatelli **1997** Determinazione di parametri ecofisiologici in sorgo e frumento nella bassa pianura padana Agricoltura Ricerca 171, 99-106
- Donatelli M., E. Ceotto, R. Marchetti **1997** CSYMBA: un ambiente software integrato per lo sviluppo di modelli modulari per la simulazione di sistemi colturali Agricoltura Ricerca 172, 13-20
- Calì A., E. Ceotto, E. Costantini, M. Donatelli **1995** Applicazione del modello EPIC e confronto con altri metodi per la stima del pedoclima in alcuni siti del nord, centro e sud Italia Bollet. Soc. Ital. Scienza Suolo 6, 61-86
- Donatelli M., E. Ceotto, P. Spallacci, R. Marchetti **1994** Uso del modello EPIC nello studio degli effetti di pratiche agricole su aspetti di interesse ambientale: un esempio di metodologia Agricoltura Ricerca 156, 33-46
- Donatelli M., E. Ceotto, P. Spallacci, R. Marchetti **1994** Uso del modello EPIC nello studio degli effetti di pratiche agricole su aspetti di interesse ambientale: un esempio di metodologia Agricoltura Ricerca 156, 33-46
- Ceotto E., M. Donatelli, F. Castelli, F. Quaranta, M. Rinaldi, P. Spallacci **1993** Using the model EPIC in simulating cropping systems in Italian environments: II Validation of yield data Agricoltura Ricerca 151-152, 209-228
- Ceotto E., M. Donatelli, F. Quaranta and M. Rinaldi **1993** Using the model EPIC in simulating cropping systems at three locations of Northern, Central and Southern Italy: I Sensitivity analysis Agricoltura Ricerca 141, 27-40
- Losavio M., M. Mastroianni, M. Donatelli **1987** La temperatura superficiale come indice di stress idrico nella soia Riv. Irr. e Dren. XXXIV, 11-15

Italian, congress papers

- Roggero P.P., Acutis M., Donatelli M., Toderi M., Orsini R., Ciarapica L., Zinoni F., Marletto M., Pistocchi A., Tomei F. **2004** Impatto ambientale dei sistemi colturali in aree di collina in relazione ai cambiamenti climatici CLIMAGRI, risultati II anno 55-65
- Donatelli M., G. Bellocchi **2001** Il modello per la simulazione di sistemi colturali CropSyst e gli strumenti collegati Modellistica e qualità ambientale 1, 3-15
- Marchetti R., P. Spallacci, D. Torri, M. Donatelli **1997** Variazioni di rugosità superficiale del suolo in relazione a cicli ripetuti di umettamento-essiccamento Conv. Soc. Ital. Scienza del Suolo Roma, 505-512

- Marchetti R., M. Donatelli, P. Spallacci **1997** Simulazione del processo di denitrificazione in modelli colturali dinamici *Agricoltura Ricerca* 172, 5-12
- Donatelli M., V. Marletto **1993** Stimare la radiazione solare utilizzando la temperatura dell'aria *AER* 6, 9-12
- Castelli F., E. Ceotto, M. Donatelli **1991** Consumi idrici del tabacco di tipo virginia bright: un quadriennio di prove nella bassa pianura padana *Inf. Agr.* XLVII, 63-67
- Ceotto E., M. Donatelli **1990** Risposta produttiva di mais da granella coltivato in successione a quattro monosuccessioni e sei rotazioni biennali attuate per un quattordicennio. *Giornate di studi POC Bari*, 163-171
- Donatelli M., E. Ceotto **1990** Risposte produttive di dodici sistemi colturali in un quadriennio di ricerca nella bassa pianura padana: primi approcci all'analisi dei dati. *Giornate di studi POC Bari*, 241-254
- Balmas V., E. Ceotto, G. Chilosi, L. Corazza, M. Donatelli **1990** Sviluppo di *Drechslera teres* (Sacc.) Shoemaker e risposta produttiva di orzo in relazione a diversi sistemi colturali. *Giornate di studi POC Bari*, 197-206
- Desiderio E., M. Donatelli, G. Mariani and M. Monotti **1986** Sorgo da granella: risultati di 14 campi sperimentali e di 2 campi catalogo realizzati nel 1985 *Inf. Agr.* XLII, 35-47
- Mariani G., M. Monotti, M. Donatelli, A. Mercuri **1985** Risultati di una rete di 18 campi sperimentali su sorgo da granella *Inf. Agr.* XLI, 62-77
- Donatelli M., A. Mercuri **1985** Stima del tenore di umidità della granella mediante la determinazione dell'umidità dei panicoli *Inf. Agr.* XLI, 77
- Mariani G., M. Donatelli **1983** Sorgo da granella: aspetti biologici, agronomici e di miglioramento genetico *Inf. Agr.* XXXIX, 24991- 24998
- Cuocolo L., V. Rizzo, G. Barbieri, V. Di Bari, G. Mariani, M. Monotti, P. Montemurro, F. Quaglietta Chiarandà, A. Spanu, M. Bosco, M. Donatelli, M. Guiducci, A. Martorella and G. Pruneddu **1982** Potenzialità produttive in semina estiva di mais e sorghi da granella di differente precocità in ambienti dell'Italia centrale e meridionale *Ann. Ist. Sper. Cereal.* XIII, 27-76

15 febbraio 2017

Firma