Curriculum Vitae Europass

Personal Information

Surname/Name	**Trumpy Eugenio**
Address	36, Via Carlo Meyer, 57127, Livorno, Italia
Telephone	Mobile +393475768907
Fax	
E-mail	e.trumpy@igg.cnr.it, eugenio.trumpy@pec.it, frippe12573@hotmail.com
Nationality	Italian
Date of birth	12/05/1973
Gender	Male

Work Experiences

01 January 2021 - Today

Position: National Research Council of Italy (CNR) Senior Technologist at the Institute of Geosciences and Earth Resources.

27 December 2018 – 31 December 2020

Position: National Research Council of Italy (CNR) Technologist at the Institute of Geosciences and Earth Resources.

01 October 2013 – 26 December 2018

Position: CNR Technologist contract at the Institute of Geosciences and Earth Resources.

Main activities and responsibilities: Design, development and implementation of IT tools for the evaluation of geothermal resources and geo-resources in a broad sense; for the organization of space and underground data infrastructures; for geological modelling and data integration for geothermal assessment.

- Responsible for coordinating the thematic line of research “Understanding, sustainable development and enhancement of geothermal resources”.
- Participation to European Energy Research Alliance – Joint Program on Geothermal Energy (EERA-JPGE) (since 2013 – today)
- Scientific responsible in the research agreement for IGG-CNR with ENEL GREEN POWER for following topics: i) geological, hydraulic, physical, chemical and rheologic characteristics assessment and development of methodologies to improve the performance of geothermal reservoir ; ii) development of technologies and development of methodologies of measurements and calibration for the environmental monitoring in geothermal areas.
- Collaboration with BRGM (French) And ISOR (Iceland) to a World Bank funded project on the definition of the “Best practices” for geothermal data management (August 2018 – June 2019).

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- Responsible for the management and implementation of the Geothermal National Geothermal Database (Geothopica) for IGG-CNR (2009 – today)
- Member of the Global Earth Observation (GEO) Data Working Group (2020 – today)
- Participation in the EPOS-IT activities (2019 - today)
- Scientific coordinator of the CNR in the H2020 project LEAP-RE. GA. 963530
- Participation to the H2020 GeoENVI project (November 2018 – May 2021) GA N°818242.
- Participation to the H2020 GECO project (October 2018 – September 2022) GA N° 818169. Contact person for CNR for the task 2.1.
- Member of the organizing committee of the named event "GEO200: I 200 anni dell'utilizzo industriale del sito di Larderello – Una geotermia sostenibile", held in Pisa at CNR in date 7-8 May 2018.
- Participation to the project of National Interest NextData (January 2017 – December 2018). Work Package 2.1 leader on the implementation of the archive of the databases of meteo-climatic data.
- Participation in consultancy activities (2017) for EDISON spa for the assessment of geothermal potential in some areas in Tuscan Region and for Latium and Sicily regions.
- Scientific collaboration (2017 – April 2019) with the University of Perugia for a new heat flow mapping and rheological assessment of some vertical profile along a W-E section to the central Italy.
- Participation to H2020 Europe Deep Geothermal – European Technologic Innovation Platform (DG-ETIP) (July 2017 – June 2019). Project No.773392.
- Participation to the H2020 GEMex (October 2016 – May 2020). Communication and dissemination Work package leader. Responsible for the 3D geological model for the Acoculco area in task 3.1. Participation to the data integration task.
- Participation to the H2020 DESCRAMBLE (May 2015 – April 2018), on communication and dissemination work package.
- Partecipati on to the data integration task for geothermal modelling and operational support for field work MT activities.
- Member of the EGIP EG (European Geothermal Information Platform Expert Group) born in the frame of the FP7 Geothermal ERA-NET project with the s cope to pave the base for the implementation of EGIP.
- Participation to the Geothermal ERA-NET (May 2012 – October 2016) funded by EU-FP7. Participation to the WP3 (Towards a European Geothermal Information Platform).
- Management for IGA (International Geothermal Association) of the geothermal production database IGA (Global Geothermal Energy Database) and for IGG-CNR of the National Geothermal Database (Geothopica). Both databases are provided as services to the Global Geothermal Atlas managed by IRENA (International Renewable ENergy Agency) (since 2013 - today).
- Collaboration (2013 - 2015) with IGA (International Geothermal Association) for the migration, organization, management and update of the "Global Geothermal Energy Database"; implementation and customization of a Business Intelligence web platform by using the Open Source SpagoBI software.

Address of work	CNR – IGG Pisa, via Moruzzi 1 56124 Pisa
Type of activity	Research center

01 April 2009 – 30 September 2013

Position	Research fellow
Main activities and responsabilities	Management of digital geological-geothermal-geophysical data and metadata in GIS projects and in spatial data infrastructures (SDI) and geothermal evaluations.

- Participation to the Geothermal ERA-NET (May 2012 – October 2016) project: mainly on WP3 (Towards a European Geothermal Information Platform)

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- Participation to the Intelligence European Energy (IEE) GEOELEC project (June 2011 – November 2013). Contributions in workshops organisation (training and workshop) and collection of the necessary information for the report of the project.
- Participation to the National Project "CNR per il Mezzogiorno" - Atlante Geotermico" (2011-2015) for the assessment, classification and mapping of conventional and un-conventional geothermal resources for power production in nine southern regions of Italy. Database and mapping methodology implementation and realization and data center implementation.
- Participation to the VIGOR (2010 - 2014) National Project. Activities on collection and data organization and geothermal resource assessment of the Mazara del Vallo area and regional geothermal potential evaluations.
- Participation to GEOBASI (2011) Regional project (Tuscan Region agreement 03/12/2009) on, Geochemical baselines for different Environmental geological matrixes in Tuscany – Geo Basi-Toscana. Activities for database implementation in an Open Source environment.
- Participation to the pre-feasibility study for the ORC cycles uses for geothermal resources in a agreement between CNR-IGG and SAIPEM (2009 – 2011).

Address of work	CNR – IGG Pisa, via Moruzzi 1 56124 Pisa
Type of activity	Research center

01 September 2007 – 31 December 2008

Position	Fellowship
Main activities and responsibilities	• Administration, restructuring and updating management of a geothermal spatial database and implementation of webmapping functionality in an Open Source environment. • Development of a website with a CMS entitled "Geothermal exploration tools" for the FP6 Enhanced Geothermal Innovative Network for Europe (ENGINE) project, focused on the coordination of the research and in the development of actions to develop EGS systems.
Address of work	c/o CNR – IGG Pisa, via Moruzzi 1 56124 Pisa - Centro di Eccellenza per la Geotermia di Larderello (CEGL)
Type of activity	Research center

Registration in professional registers

2005 - 2012	Registration in Geological Professional Register of Tuscany – List A (ex N. 1417)

Education and Training

2009 - 2011	
	PhD in Earth Sciences
	University of Pisa – Department of Earth Sciences
2003	
	Professional qualification, Geologist
	Successful state exam on 22/12/2003 – serial number:0403E0464 – protocol N. 830965.
	University of Siena

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2002

Technician of GEOGRAPHICAL INFORMATION SYSTEM (Sperimental profile – RT20000187 – European level 2) – Certificate issued the 18/04/2004, code N.: RT2004660

Geographical Information System specialization course

Scientific and technologic center of Livorno, with the collaboration of the Province of Livorno and university of Pisa. Duration of the course 600 hours + 200 hours of stage in a company.

1993 - 2000

Master degree in Geological Sciences.

University of Pisa, Department of Earth Science.

Prizes and awards

07/09/2016

Prize "Secondo Franchi" 2015of the Italian Geological Survey for the paper: Molli et al. 2015 Surface-subsurface structural architecture and groundwater flow of the Equi Terme hydrothermal area, northern Tuscany Italy. Ital. J. Geosci. (Boll. Soc. Geol. It.), Vol. 134, No. _ (2015), pp. 00-00, 12 figs. DOI: 10.3301/IJG.2014.25

Research topics

The research activity of the undersigned is focused: on the organization, management and implementation of infrastructures of geological, geophysical, geochemical and geothermal geographic data bases in order to carry out assessments of both the geothermal resource and any other type of natural georesource ; methods for calculating both geothermal potential and geothermal favorability for conventional and non-conventional resources, as well as the dissemination of results both through the scientific literature of the sector and through modern web channels such as information platforms.
The skills, which the undersigned makes use of to address the research themes indicated, include: the use of Geographical Information Systems (GIS) for the integration, management and analysis of geographic data, the implementation of GIS models for the integrated spatial dataset analysis, 3D geological modelling, implementation of Business Intelligence (BI) systems for data analysis and the creation and management of geographic relational databases.

Personal skills and competences

Mother tongue **Italian**

Other tongue **English**

	Comprehension			Spoken				Written	
Self-evaluation	Listening		Reading		Orale interaction		Oral production		
European Level (*)									
Inglese	B2		C1		B2		B2	B1	

(*) Common European framework of reference for languages

Technical skills and competences

Management, organization and metadata description of geological, geophysical and geothermal data for GIS and Spatial Data Infrastructure (SDI) projects dedicated to the evaluation, enhancement and sustainable management of geo-resources and in particular geothermal ones. In addition to the skills and experience in understanding and conceptualizing conventional and non-conventional geothermal systems, the undersigned has developed the following skills:

- Geographical Information System (GIS)
- Spatial data integration

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- 3D geological modelling
- Spatial data analysis
- the development of decision support systems (DSS)
- development of Business Intelligence (BI) systems per geothermal data analysis
- implementation of models for the analysis of maps in GIS environment

Computer skills and competences

- OS knowledge: Linux (Debian 6.0, Ubuntu 19.x), MS-Windows (98, 2000, XP, vista, 7, 8, 10), Mac-OSX
- Use of the Office packages: OpenOffice, MS-Office (vers. 2000, XP, 2003, 2007, 2010, 2013, 2016)
- Knowledge of **latex** language for text preparation
- Open Source GIS Software desktop: QGis 3.x, Grass 7.x
- Server-side software for spatial data management: Postgresql + Postgis, Mapserver, Pmapper, Geoserver, GeoNetwork, Geonode
- Property GIS Software desktop: ArcGis 10.X, ArcView 3.X
- Software development for application of Business Intelligence for dynamic dataset analysis: SpagoBI 2.x, 3.x, 5.x
- Vector and raster graphics software: Corel Draw 12, Gimp, Inkscape
- Software for technical design: AutoCad 2002, AutoDesk 2005 Map
- Software for 3D Geological model: Schlumberger Petrel, Intrepid 3D Geomodeller, Leapfrog
- Development and programming languages: Java, Visual Basic, SQL, HTML, ASP, PHP, UNIX-BASH
- Design and implementation of Relational Data Base for spatial and non spatial data
- Design and implementation of web application for spatial data (webGIS)
- CMS (Content managment system) systems: Joompla 3.x
- Administration of server systems UNIX like
- Administration of server-side for data management, Relational Data Base Managment System (RDBMS)
- Administration and management of server-side for spatial data management
- Administration and management web domain

Further information

Author / coauthor of over 100 publications in: scientific journals, national and international congress / conference proceedings, technical project reports, websites and databases (see attachment 1)

Attachment

1 – PUBLICATION LIST

The information contained in this Curriculum are made under the personal responsibility of the undersigned pursuant to articles 46 and 47 of the Presidential Decree n. 445/2000, aware of the criminal liability provided for by

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art. 76 of the same Presidential Decree for the hypotheses of falsehood in false deeds and declarations

I authorize the processing of personal data pursuant to art. 13 of Legislative Decree 30 June 2003 No. 196 - "Code regarding the protection of personal data" and art. 13 GDPR 679/16 - "European regulation on the protection of personal data".

Pisa, 09/09/2021

IN FAITH
Eugenio TRUMPY

ATTACHMENT

1 – Publication List

INTERNAZIONATIONAL PEER REVIEW JOURNALS:

Coro G. and Trumpy E. Predicting geographical suitability of geothermal power plants. Journal of Cleaner Production, 2020, 267, 121874. https://doi.org/10.1016/j.jclepro.2020.121874

Deb, P., Knapp, D., Marquart, G., Clauser, C., Trumpy, E. Stochastic workflows for the evaluation of Enhanced Geothermal System (EGS) potential in geothermal greenfields with sparse data: the case study of Acoculco, Mexico. Geothermics, 2020, 88, 101879. https://doi.org/10.1016/j.geothermics.2020.101879

Cristina Pauselli, Gianluca Gola, Paolo Mancinelli, Eugenio Trumpy, Muzio Saccone, Adele Manzella, Giorgio Ranalli. A new surface heat flow map of the Northern Apennines between latitudes 42.5 and 44.5 N. Geothermics, 2019, 81, 39-52.

Santilano, A., Trumpy, E., Gola, G., Donato, A., Scrocca, D., Ferrarini, F., Brozzetti, F., de Nardis, R., Lavecchia, G., Manzella, A. A methodology for assessing the favourability of geopressured-geothermal systems in sedimentary basin plays: a case study in Abruzzo (Italy). Geofluids, 2019, Article ID 4503943, 28 pages. https://doi.org/10.1155/2019/4503943.

Philippe Calcagno, Gwladys Evanno, Eugenio Trumpy, Luis Carlos Gutiérrez-Negrín, José Luis Macías, Gerardo Carrasco-Núñez, Domenico Liotta and the GEMex T3.1 team. 3D preliminary geological models of Los Humeros and Acoculco geothermal fields (Mexico) – H2020 GEMex project. Advanced in Geosciences, 2018, 45, 321-333. https://doi.org/10.5194/adgeo-45-321-2018.

Gola, G., Bertini, G., Bonini, M., Botteghi, S., Brogi, A., De Franco, R., Dini, A., Donato, A., Gianelli, G., Liotta, D., Manzella, A., Montanari, D., Montegrossi, G., Petracchini, L., Ruggieri, G., Santilano, A., Scrocca, D., Trumpy, E. 2017. Data integration and conceptual modelling of the Larderello geothermal area, Italy. Energy Procedia, 125, 2017, 300-309. https://doi.org/10.1016/j.egypro.2017.08.201.

D. Montanari, A. Minissale, M. Doveri, G. Gola, E. Trumpy, A. Santilano, A. Manzella. Geothermal resources within carbonate reservoirs of western Sicily (Italy): A review. Earth-Science Reviews (2017), 167, 180-201.

E. Trumpy, A. Manzella. Geothopica and the interactive analysis and visualization of the updated Italian National Geothermal Database. International Journal of Applied Earth Observations and Geoinformation (2017), 54, pp. 28-37. DOI: 10.1016/j.jag.2016.09.004

Trumpy, E., Botteghi, S., Caiozzi, F., Donato, A., Gola, G., Montanari, D., Pluymaekers, M., Santilano, A., Van Wees, J.D., Manzella, A. A new systematic approach for geothermal potential assessment, an example in Southern Italy. (2016) ENERGY, 103, 167-181. http://dx.doi.org/10.1016/j.energy.2016.02.144

A. Santilano, A. Manzella, G. Gianelli, A. Donato, G. Gola, I. Nardini, and E. Trumpy - Convective, Intrusive Geothermal Plays: what about tectonics? (2015) Geothermal Energy Science, 3, 51-59, doi:10.5194/gtes-3-51-2015

Trumpy, E., Coro, G., Manzella, A., Pagano, P., Castelli, D., Calcagno, P., Nador, A., Bragasson, T., Grellet, S., Siddiqi, G. Building a European Geothermal Information Network using a Distributed e-Infrastructure. (2015) International Journal of Digital Earth, online: 22/09/2015. DOI:10.1080/17538947.2015.1073378

Molli, G., Doveri, M., Manzella, A., Bonini, L., Botti, F., Menichini, M., Montanari, D., Trumpy, E., Ungari, A. & Vaselli,

L. Surface-subsurface structural architecture and groundwater flow of the Equi Terme hydrothermal area, northern Tuscany Italy. Ital. J. Geosci. (Boll. Soc. Geol. It.), Vol. 134, No. _ (2015), pp. 00-00, 12 figs. DOI: 10.3301/IJG.2014.25

Trumpy E., Donato A., Gianelli G., Gola G., Minissale A., Montanari D., Santilano A., Manzella A. Data Integration and favourability maps for exploring geothermal systems in Sicily, southern Italy. Geothermics, 56 (2015) 1–16

Trumpy E., Bertani R., Manzella A., Sanders M. The web-oriented framework of the world geothermal production database: a business intelligence platform for wide data distribution and analysis. Renewable Energy, 74, 379-389, 2015;

Montanari D., Albanese C., Catalano R., Contino A., Fedi M., Gola G., Iorio M., La Manna M., Monteleone S., Trumpy E., Valenti V., Manzella A. (2015). Contour map of the top of the regional geothermal reservoir of Sicily (Italy). Journal of Maps, 11, 13-24. doi: 10.1080/17445647.2014.935503

Limberger J., Calcagno P., Manzella A., Trumpy E., Boxem T., Pluymaekers M. P. D., and van Wees J.-D. Assessing the prospective resource base for enhanced geothermal systems in Europe, Geoth. Energ. Sci., 2, 55-71, doi:10.5194/gtes-2-55-2014, 2014;

Galgaro A., Di Sipio E., Destro E., Chiesa S., Uricchio V.F., Bruno D., Masciale R., Lopez N., Iaquinta P., Teza G., Iovine G.,Montanari, Manzella D.A., Soleri S., Greco R., Di Bella G., Monteleone S., Sabatino M., Iorio M., Petruccione E., Giaretta A., Tranchida G., Trumpy E., Gola G., D'Arpa S. - (2012). Proposte metodologiche per la valutazione del potenziale di geoscambio: il progetto VIGOR (Methodological approach for evaluating the geo-exchange potential: VIGOR Project) – Aque sotterranee. DOI 10.7343/AS-014-12-00XX

PEER REVIEW PROCEEDINGS AND EXTENDED ABSTRACTS AT INTERNATIONAL CONGRESSES:

G. Gola, S. Botteghi, F. Brozzetti, C. Chiarabba, F. Ferrarini, G. Groppelli, G. Lavecchia, P. Limoni, D. Montanari, G. Norini, L. Petracchini, M. Polemio, F. Santaloia, A. Santilano, D. Scrocca, E. Trumpy, A. Manzella. The Thermal Structure of the Upper Crust in Central-Southern Italy and Its Correlation with the Distribution of GeoThermal Resources. Proceedings World Geothermal Congress 2020Reykjavik, Iceland, April 26 –May 2, 2020

Philippe Calcagno, Eugenio Trumpy, Luis Carlos Gutierrez-Negrin, Gianluca Norini, José Luis Macias, Gerardo Carrasco-Nuñez, Domenico Liotta, Victor Hugo Garduño-Monroy, Gylfi Páll Hersir, Loes Vaessen, Gwladys Evanno And Claudia Arango Galvan. Updating the 3D Geomodels of Los Humeros and Acoculco Geothermal Systems (Mexico) – H2020 GEMex Project. Proceedings World Geothermal Congress 2020Reykjavik, Iceland, April 26 –May 2, 2020

Damien Bonte, Jon Limberger, Gianluca Gola, Eugenio Trumpy, Simon Lopez, Camille Maurel, Antoine Armandine Les Landes, Guido Giordano, Thomas Kretzschmar, Jan Diederik Van Wees. Thermal and Hydrological Regional Characterisation of Los Humeros and Acoculco (Mexico) Using Modelling Methods – H2020 GEMex Project. Proceedings World Geothermal Congress 2020Reykjavik, Iceland, April 26 –May 2, 2020

Mathieu Darnet, Philippe Calcagno, Steinunn Hauksdottir, Dadi Thorbjornsson, Eugenio Trumpy, Joeri Frederik De Wit And Thrainn Fridriksson. Defining Best Practices in the Management of Geothermal Exploration Data. Proceedings World Geothermal Congress 2020Reykjavik, Iceland, April 26 –May 2, 2020

E Trumpy, I Baneschi, F Batini, G Bicocchi, M Bonini, S Botteghi, A Brogi, A Dini, G Gola, L Jeannin, M Lelli, D Liotta, F Norelli, A Manzella, D Montanari, G Montegrossi, A Orlando, B Raco, A Ronconi, G Ruggieri, A Santilano, C Souque, C Boschi. GeologicalAssessment of Castelnuovo (Italy) Demonstration Site for CO2Reinjection inDeep Geothermal Reservoir. H2020 GECO Project. Proceedings World Geothermal Congress 2020Reykjavik, Iceland, April 26 –May 2, 2020

Trumpy E., Botteghi S., Dumas P., Gola, G., Laenen B., Pellizzone A., Pinzuti V., Sorin P., Manzella A. The European Geothermal RD&I Documents Search Engine-EGRISE: a Tool to Access Geothermal Projects Reports –H2020 DG-ETIP project. Proceedings World Geothermal Congress 2020Reykjavik, Iceland, April 26 –May 2, 2020

Trumpy, Gola, Botteghi, Pellizzone, Pavel, Dumas, Pinzuti, Laenen, Manzella. The rd&i document search engine of ETIP-DG. European Geothermal Congress EGC 2019 The Hague, 10-14 June 2019 –- ISBN

Pinzuti, V., Dumas, P., Garabetian, T., Manzella, A., Trumpy, E., Laenen, B., Lagrou, D. European technology and innovation platform on deep geothermal, a presentation. European Geothermal Congress EGC 2019 The Hague, 10-14 June 2019 –- ISBN

Santilano, Trumpy, Gola, Donato, Scrocca, Ferrarini, Brozzetti, De Nardis, Lavecchia, Manzella, The geothermal favourability of geopressured-geothermal systems: a case study in Italy. European Geothermal Congress EGC 2019 The Hague, 10-14 June 2019 –- ISBN

Manzella, Botteghi, Olafur, Gianluca, Hersir, Limberger, Liotta, Santilano, Trumpy, van Wees. Mapping super-critical geothermal resources in Europe. European Geothermal Congress EGC 2019 The Hague, 10-14 June 2019 –- ISBN

Egbert Jolie, David Bruhn, Aída López Hernández, Domenico Liotta, Víctor Hugo Garduño-Monroy, Matteo Lelli, Gylfi Páll Hersir, Claudia Arango-Galván, Damien Bonté, Philippe Calcagno, Paromita Deb, Christoph Clauser, Elisabeth Peters, Abel F. Hernández Ochoa, Ernst Huenges, Zayre Ivonne González Acevedo,Katrin Kieling, Eugenio Trumpy, Julio Vargas, Luis Carlos Gutiérrez-Negrín, Alfonso Aragón-Aguilar, Saeunn Halldórsdóttir, Eduardo González Partida, Jan-Diederik van Wees, Miguel Angel Ramírez Montes, Heber Didier Diez León, and the GEMex team. GEMex –A Mexican-European Research Cooperation on Development of Superhot and Engineered Geothermal Systems. PROCEEDINGS, 43rd Workshop on Geothermal Reservoir EngineeringStanford University, Stanford, California, February12-14, 2018 SGP-TR-213

E. Trumpy, G. Coro, A. Manzella, P. Pagano, D. Castelli, P. Calcagno, S. Grellet, M. Alcanié, JJ. Serrano, A. Nador, L. Sores, G. A. Jóhannesson, T. Bragasson, H.P. Ingolfsson, B. Petursson, H. Jamshidnia, G. Siddiqi, N. Oesterling, C. Minnig, A. Lapanje, P. Meglic, M. Krivic. Towards a European Geothermal Information Platform, the EGIP pilot. European Geothermal Congress 2016. Strasburgo 19 - 23 Settembre 2016. ISBN 978-2-9601946-0-9

Gudni A. Jóhannesson, Hjalti P. Ingólfsson, Gunter Siddiqi, Paul Ramsak, Gerdi Breembroek, Adela Manzella, Eugenio Trumpy, Stephan Schreiber, Baldur Pétursson, Alicja W. Stoklosa, Sigurdur Björnsson, Philippe Calcagno, Martino, Lacirignola, Andrej Lapanje, Annamaira Nador, Matilde Cunha, Jana Stadtruckerová, Kaan Karaoz. European cooperation on geothermal research through the GEOTHERMAL ERA NET. European Geothermal Congress 2016. Strasburgo 19 - 23 Settembre 2016. ISBN 978-2-9601946-0-9

E. Trumpy, A. Manzella, 2013 – The Geothermal Information Platform (GIP) – Pisa, 3-7 June 2013 – European Geothermal Congress EGC 2013 - ISBN 978-2-8052-0226-1. https://www.researchgate.net/publication/255966468_The_Geothermal_Information_Platform_GIP

E. Trumpy, R. Bertani, A. Manzella, M. Sander, 2013 – The web-oriented framework of the world geothermal production database: a business intelligence platform for wide data distribution and analysis – Pisa, 3-7 June 2013 – European Geothermal Congress EGC 2013 - ISBN 978-2-8052-0226-1. https://www.researchgate.net/publication/255966538_The_web-oriented_framework_of_the_world_geothermal_production_database_A_business_intelligence_platform_for_wide_data_distribution_and_analysis

G. Gola, A. Manzella, E. Trumpy, D. Montanari, J. D. van Wees, 2013 - Deep-seated Geothermal Resource Assessment of the VIGOR Project Regions, Italy – Pisa, 3-7 June 2013 – European Geothermal Congress EGC 2013 - ISBN 978-2-8052-0226-1. https://www.researchgate.net/publication/255180968_Deep-seated_Geothermal_Resource_Assessment_of_the_VIGOR_Project_Regions_Italy

Domenico Montanari, Giovanni Bertini, Serena Botteghi, Grazia Caielli, Federica Caiozzi, Raimondo Catalano, Roberto de Franco, Marco Doveri, Giovanni Gianelli, Gianluca Gola, Adele Manzella, Angelo Minissale, Giordano Montegrossi, Salvatore Monteleone, Gianluca Norini, Giorgio Tranchida, EugenioTrumpy - Medium enthalpy geothermal systems in carbonate reservoirs, the Western Sicily example – Pisa, 3-7 June 2013 – European Geothermal Congress EGC 2013 - ISBN 978-2-8052-0226-1.
https://www.researchgate.net/publication/257757740_Medium_enthalpy_geothermal_systems_in_carbonate_reservoirs_the_Western_Sicily_example

Boschi C., Dallai L., Dini A., Gianelli G., Ruggieri G., Trumpy E., (2010). Fluid chemistry evolution during the natural carbonation of the Tuscan serpentinites: insights for CO2 mineralogical sequestration. Proceeding of the 3th International Conference on accelerated carbonation for environmental and materials engineering, 29 Novembre-1 Dicembre 2010, Turku (Finlandia). pp. 139-146. ISBN 978-952-12-2505-5 (ISBN 978-952-12-2506-2 pdf version) - http://www.cnr.it/dipartimenti/ProdottoDellaRicerca.html?cds=043&id=83452

INVITED SPEAKER (Keynote speech)

E. Trumpy. From data organization to geothermal favourability and potential maps: the case of Italy. KAUST Research Conference 2020 - Maturing Geothermal Energy for Saudi Arabia. January 27 – 29, 2020.

E. Trumpy, A. Manzella. Geothermal assessment: a regional approach, available tools and research frontiers. 6th European Geothermal Workshop (EGW2018). Strasbourg 10 – 11 October 2018.

DATABASES

E. Trumpy. GEMex Open Access Database. L'Open Access Database del progetto GEMex contiene i dataset, le mappe, i risultati dei modelli 3D sotto forma di profili verticali ed orizzontali che sono stati prodotti nell'ambito del progetto GEMex. I suddetti dataset sono catalogati e descritti con metadati e sono disponibili per il download in vari formati. Il software utilizzato per gestire i dataset è Geonode, ovvero un sistema di gestione dei dati geospaziali di tipo Open Source con le funzionalità di una Spatial Data Infrastructure (SDI). Geonode si avvale degli standard internazionali descritti dall'Open Geospatial Consortium (OGC), quali WMS, WFS, WCS, CSW, WMC, TMS. Relazione tecnica di progetto Europeo H2020 D2.3 Open Access Database https://goo.gl/nKKIAZ; Manuale per la consegna dei dataset e dei metadati descrittivi: https://data.d4science.net/FZqB

E. Trumpy, M. De Amicis, L. Ferraro, E. Palazzi, A. Provenzale and the WP2.1 team. The Archive of datasets of the NextData project. L'archivio fornisce informazioni quantitative sul sulle passate, presenti e future condizioni climatiche, risorse idriche ed ecosistemi naturali nelle regioni montane Italiane oltre che anche ricostruzioni delle passate condizioni climatiche nell'area Italiana. Documentazione a corredo vedi D2.1, b, c del progetto NextData.

Adele Manzella, Adele Manzella, Serena Botteghi, Gianluca Gola,Alessandro Santilano, Eugenio Trumpy, Jan Diederik van Wees, Jon Limberger, Gylfi Páll Hersir, Olafur Flovenz, Domenico Liotta. Database: potential supercritical conditions. La banca dati contiene i dataset dei parametri individuati utili alla caratterizzazione dei sistemi geotermici supercritici. I dataset, raster e vettoriali, sono stati creati e archiviati nella banca dati e poi sono stati utilizzati nella metodologia di calcolo messa a punto. La metodologia basata su punteggi e pesi dei vari dataset ha consentito di ottenere la mappa di favorevolezza dei sistemi supercritici in Europa, la quale fa altresì parte della banca dati. Documentazione a corredo: D5.05 Database: potential supercritical conditions - disponibile all'URL: http://www.image-fp7.fr/reference-documents/deliverables/IMAGE-D5.05-2017.09.21-Databasepotential-supercritical-conditions-incl.annexes-public.pdf

Trumpy E., Bertani R., Manzella A., Sanders M. Global Geothermal Energy Database. Il database denominato 'Global Geothermal Energy Database' è una banca dati creata dall'IGA (International Geothermal Association). Viene aggiornata ogni 5 anni in occasione del World Geothermal Congress. La banca dati contiene informazioni sulla produzione di energia elettrica e sugli usi diretti del calore a scala globale. L'applicazione web associata a questo database consente agli utenti di effettuare delle semplici analisi sui dati, permettendo di costruire, liste, report, grafici e mappe.
Applicazione web: http://ggedb.igg.cnr.it/SpagoBI

Trumpy E., Manzella A. Geothopica - Banca Dati Nazionale Geotermica. Geothopica è un portale web dotato di un webgis che consente l'interrogazione dei dati della BDNG su base cartografica garantendo diversi livelli di accessibilità in base alla riservatezza del dato e alla tipologia dell'utente. E' possibile navigare tra mappe di temperatura a diversa profondità o flusso di calore superficiale per l'intero territorio nazionale. Sono altresì disponibili le ubicazioni degli "oggetti geotermici" d'interesse e i relativi dati anagrafici.
Documentazione a corredo: Il portale Geothopica contiene alcune informazioni generali sul database e il link ai metadati redatti secondo lo standard ISO-19115. Il webGIS implementato ha un bottone che rimanda ad una guida all'utilizzo dello strumento. Una descrizione ed un manuale d'utilizzo maggiormente dettagliati sono inclusi nei Rapporti Interni IGG n. 10481 e n. 10480. URL applicazione web: http://geothopica.igg.cnr.it

Trumpy, E., Coro, G., Manzella, A., Pagano, P., Castelli, D., Calcagno, P., Nador, A., Bragasson, T., Grellet, S., Siddiqi, G. EGIP pilot. L'EGIP pilot è il risultato di una Joint Activity nata e svolta nel contesto del progetto Europeo FP7 Geothermal ERA-NET. L'obiettivo principale del EGIP pilot è quello di dimostrare le funzionalità e l'utilità di una piattaforma informativa geotermica a livello Europeo. La piattaforma informativa geotermica Europea ha l'obiettivo di organizzare, mettere a sistema i dati e le informazioni geotermiche a scala transnazionale. Le nazioni partecipanti organizzano i dati nazionali secondo gli standard internazionali adottati (INSPIRE) e li mettono a disposizione della piattaforma Europea che in maniera automatica li recepisce, li colleziona, li rende utilizzabili nella piattaforma. La piattaforma geotermica Europea (EGIP) consente di ricercare, visualizzare e analizzare i dati/metadati raccolti. La piattaforma informativa geotermica Europea è stata realizzata nel pilot utilizzando una e-infrastructure (D4science).
Nel portale sono altresì presenti i documenti utilizzati dai paesi partecipanti al pilot. URL applicazione web: http://egip.igg.cnr.it

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