

| 27 November 2017 | | | | |
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| 16.00-18.00 | Pre-Registration | | | |
| Time | 28 November 2017 | | | |
| 8:00 - 9:00 | Registration and Welcome | | | |
| 9:00 - 10:30 | Opening Session (Plenary) - Genevieve Campan (CNES), Andreas Veispak (DG-GROW), Giuseppe D'Amico (SatCen), Nicolaus Hanoski (ESA), Charles McMillan (JRC) | | | |
| 10:30 - 10:50 | Coffee Break | | | |
| 10:50 - 12:30 | Auditorium Session 2A - Big Data Processing I Chair: B. Hoersch | | Room Guillaume Session 2B - Machine Learning and Semantic Querying Chair: L. Bruzzone | |
| 10:50 - 11:30 | Cristoph Bruch | Big Data? Small Data? Open Data! | 10:50 - 11:10 | Thomas Reato, Begum Demir and Lorenzo Bruzzone SEMANTIC-SENSITIVE HASHING FOR CONTENT-BASED RETRIEVAL IN REMOTE SENSING IMAGES |
| | | | 11:10 - 11:30 | Andrea Baraldi, Dirk Tiede, Martin Sudmanns and Stefan Lang SYSTEMATIC EARTH OBSERVATION LEVEL 2 PRODUCT GENERATION FOR SEMANTIC QUERYING |
| 11:30 - 11:50 | Laure Chaumat, Alain Montmory and Sylvie Barrau Huguet | INTERNET MAJOR ACTORS TECHNOLOGIES APPLIED TO METEOROLOGICAL SATELLITE: STREAM DATA APPLIED TO DATA PROCESSING | 11:30 - 11:50 | Fabien Castel, Paschalis Veskos and Stathis Koukouvinos DATA CORRELATION: FUSING LOGFILES WITH PERFORMANCE COUNTERS TO DIAGNOSE PERFORMANCE ISSUES IN GROUND SYSTEMS |
| 11:50 - 12:10 | Sylvie Barrau Huguet, Louis Noval, Guillaume Eynard-Bontemps, Hugo Palacin and Florent Ventimiglia | FROM HADOOP MAP/REDUCE TO SPARK: GAIA DPCC PERFORMANCE USE CASE | 11:50 - 12:10 | Francesco Diprima, Vito Fortunato, Leonardo Amoroso, Cristoforo Abbattista, Fabio Santoni, Fabrizio Piergentili and Daniela Drimaco AUTOMATIC DEBRIS DETECTION FOR SPACE SITUATIONAL AWARENESS BASED ON GPU TECHNOLOGY |
| 12:10 - 12:30 | Stefano Elefante, Vahid Naemi, Senmao Cao, Iftikhar Ali, Tuan Sy Le, Wolfgang Wagner, Werner Muecke and Christian Briese | BIG DATA PROCESSING USING THE EODC PLATFORM | 12:10 - 12:30 | Sandrine Daniel, Johannes Petrat and Lee Young Young Tree Identification Using Machine Learning on Sentinel-1 Data |
| 12:30 - 14:00 | Lunch Break | | | |
| 14:00 - 15:40 | Auditorium Session 3A - Data Cubes and Multidimensional Arrays Chair: P. Baumann | | Room Guillaume Session 3B - Information Generation at Scale Chair: S. Lavender | |
| 14:00 - 14:20 | Peter Strobl, Peter Baumann, Adam Lewis, Zoltan Szantoi, Brian Killough, Matthew Purss, Max Craglia, Stefano Nativi, Alex Held and Trevor Dhu | THE SIX FACES OF THE DATA CUBE | 14:00 - 14:20 | Christina Corbane, Martino Pesaresi, Panagiotis Politis, Vasileios Syrris, Aneta Florczyk J., Pierre Soille, Luca Maffeni, Armin Burger, Veselin Vasilev, Dario Rodriguez, Filip Sabo and Thomas Kemper MASS PROCESSING OF SENTINEL-1 AND LANDSAT DATA FOR MAPPING HUMAN SETTLEMENTS AT GLOBAL LEVEL |
| 14:20 - 14:40 | Trevor Dhu, Simon Oliver, Adam Lewis, Andrea De Avila Siqueira, Jonathon Ross, Leo Lymburner and David Gavin | THE DIGITAL EARTH AUSTRALIA – UNLOCKING INNOVATION AND CAPABILITY ACROSS SPATIAL INDUSTRY | 14:20 - 14:40 | Elisa Castelli, Massimo Ventrucci, Fedele Greco, Massimo Valeri, Bianca Maria Dinelli, Enzo Papandrea and Stefano Casadio ON THE CONTRIBUTION OF 20 YEARS OF ATSR DATA AND GEODESIC P-SPLINE EFFICIENT SPATIAL SMOOTHING METHOD TO ITCZ TREND ANALYSIS |
| 14:40 - 15:00 | Iftikhar Ali, Vahid Naeimi, Senmao Cao, Stefano Elefante, Le Tuan Sy, Bernhard Bauer-Marschallinger and Wolfgang Wagner | SENTINEL-1 DATA CUBE EXPLOITATION: TOOLS, PRODUCTS, SERVICES AND QUALITY CONTROL | 14:40 - 15:00 | Said Kharbouche, Jan-Peter Muller, Olaf Danne and Nadine Gobron QA4ECV: 35 YEARS OF DAILY ALBEDO BASED ON AVHRR AND GEO |
| 15:00 - 15:20 | Gilberto Camara, Lúbia Vinhas, Gilberto Queiroz, Karine Ferreira, Ricardo Cartaxo Modesto Souza, Luiz Fernando Assis, Adeline Marinho Maciel, Rolf Simoes and Alber Sánchez | THE E-SENSING ARCHITECTURE FOR BIG EARTH OBSERVATION DATA ANALYSIS | 15:00 - 15:20 | Raul Zurita Milla, Romulo Goncalves, Emma Izquierdo Verdiguier and Frank Ostermann Exploring vegetation phenology at continental scales: linking temperature-based indices and land surface phenological metrics |
| 15:20 - 15:40 | Julia Wagemann, Stephan Siemen and Sylvie Lamy-Thépaut | Geospatial web services for Big Climate Data: on-demand access to and processing of ECMWF's reanalysis data | 15:20 - 15:40 | Marco Chini, Ramona Pelich, Renaud Hostache, Patrick Matgen, Jose Manuel Delgado and Giovanni Sabatino LARGE SCALE FLOOD FREQUENCY MAP USING SAR DATA |
| 15:40 - 16:10 | Coffee Break | | | |
| 16:10 - 17:50 | Auditorium Session 4A - Visualization Chair: P. Baumann | | Room Guillaume Session 4B - Interoperability, standards and regulation Chair: P. Strobl | |
| 16:10 - 16:50 | Massimo Lamanna | Big Data management and Big Data mining as a service at CERN | 16:10 - 16:30 | Marie-Francoise Voidrot and George Percivall OGC Big Data white paper- Extended abstract |
| | | | 16:30 - 16:50 | Dimitra Stefoudi Space Big Data, Small Earth Laws: Overcoming the Regulatory Barriers to the Use of Space Big Data Applications |
| 16:50 - 17:10 | Davide De Marchi, Armin Burger, Pieter Kempeneers and Pierre Soille | Interactive visualisation and analysis of geospatial data with Jupyter | 16:50 - 17:10 | Kwo-Sen Kuo and Michael L Rilee STARE - TOWARD UNPRECEDENTED GEO-DATA INTEROPERABILITY |
| 17:10 - 17:30 | Nicolas Decoster and Julien Nosavan | WEBASSEMBLY FOR EO DATA VALORIZATION, RUNNING (LEGACY) TIME-CONSUMING PROCESSING IN THE BROWSER | 17:10 - 17:30 | Konstantina Bereta and Manolis Koubarakis Creating Virtual Semantic Graphs on Top of Big Data from Space |
| 17:30 - 17:50 | Grega Milcinski, Guenther Landgraf, Patrick Hogan and Paulo Sacramento | Integration Of Web World Wind And Sentinel Hub - A Global 4D Big Data Exploration And Collaboration Platform | 17:30 - 17:50 | Stefano Nativi, Joost van Bemmelen, Mattia Santoro and Guido Colangeli BIG DATA CHALLENGES IN GEOSS |
| 18:30 | Conference Event at Toulouse Council Hall | | | |

| Time | 29 November 2017 | | | | |
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| 8:40 - 10:20 | Auditorium Session 5A - Big Data Processing II Chair: S. Baillarin | | | Room Guillaume Session 5B - Time Series Chair: B. Demir | |
| 8:40 - 09:20 | Mihai Datcu | Data Science: Progress and Perspectives | 8:40 - 09:00 | Lorenzo Bruzzone, Manuel Bertoluzza and Francesca Bovolo | A NEW PARADIGM FOR THE EXPLOITATION OF THE SEMANTIC CONTENT OF LARGE ARCHIVES OF SATELLITE REMOTE SENSING IMAGES |
| | | | 9:00 - 9:20 | Clémentine Barreyre, Béatrice Laurent, Jean-Michel Loubes, Loïc Boussouf and Bertrand Cabon | Detecting abnormal events in multivariate telemetries thanks to covariance analysis |
| 9:20 - 09:40 | Jose' Manuel Delgado Blasco, Claudio Manganiello, Pier Giorgio Marchetti and Massimo Marrazzo | COPERNICUS AND AIS DATA FUSION AND INFORMATION MANAGEMENT FOR MARITIME TASKS – PRELIMINARY RESULTS | 9:20 - 09:40 | Andrii Shelestov, Mykola Lavreniuk, Andrii Kolotii, Vladimir Vasiliev, Leonid Shumilo and Natalia Kussul | CLOUD APPROACH TO AUTOMATED CROP CLASSIFICATION USING SENTINEL-1 IMAGERY |
| 09:40 - 10:00 | Frederic Pailler, Laurence Chaoul, François Riclet and Chantal Panem | Lessons Learned over the past three years, on the BigData Usage for processing Gaia data in CNES | 09:40 - 10:00 | Morton J. Canty and Allan A. Nielsen | Spatio-temporal analysis of change with Sentinel imagery on the Google Earth Engine |
| 10:00 - 10:20 | Jose Julio Ramos | Beyond Sentinel-2 with UrtheDaily constellation | 10:00 - 10:20 | Peter Scarth | Operational Application Of The Full Landsat Timeseries To Service Industry In The Australian Rangelands |
| 10:20 - 10:50 | Coffee Break | | | | |
| 10:50 - 12:30 | Auditorium Session 6A - Public and Private Platforms Chair: C. Vaduva | | | Room Guillaume Session 6B - Analysing the Temporal Dimension Chair: D. Klein | |
| 10:50 - 11:10 | Stephane Duprat, Camille Louge, Marc Ferrer, Vincent Garcia, Driss El Maalem, Mireille Paulin, Erwann Poupard and Christophe Taillan | PEPS – THE FRENCH COPERNICUS COLLABORATIVE GROUND SEGMENT | 10:50 - 11:10 | Stefan Wunderle, Christoph Neuhaus, Fabia Huesler, Andrew Brooks, Neil Lonie, Mirko Albani, Sergio Folco and Rosemarie Leone | PRESERVATION AND HARMONIZATION OF HISTORICAL AVHRR LAC DATA TO SERVE THE NEEDS OF USERS IN CLIMATE RESEARCH |
| 11:10 - 11:30 | Michael Schick, Martin Dillmann, Lothar Wolf, Miruna Stoicescu and Joana Miguens | EUMETSAT, ECMWF & MERCATOR OCEAN PARTNERS DIAS | 11:10 - 11:30 | Maurizio Santoro, Oliver Cartus, Andreas Wiesmann, Urs Wegmüller, Josef Kellndorfer, Christiane Schmillius, Pierre Defourny, Marcus Engdahl, Olivier Arino and Frank Martin Seifert. | EXPLOITATION OF ENVISAT ASAR AND SENTINEL-1 SAR DATA IN SUPPORT OF THE CARBON AND THE WATER CYCLES |
| 11:30 - 11:50 | Bernard Valentin, Matthieu Melcot, Leslie Gale, Philippe Mougnaud and Michele Iapaolo | ASB – A PLATFORM AND APPLICATION AGNOSTIC SOLUTION FOR IMPLEMENTING COMPLEX PROCESSING CHAINS OVER GLOBALLY DISTRIBUTED PROCESSING AND DATA RESOURCES | 11:30 - 11:50 | Milan Lazecky and Ivana Hlavacova | Automated Sentinel-1 Interferometric Monitoring System |
| 11:50 - 12:10 | Laurent Gabet, Philippe Nonin, Thomas Henrot, Michel Frankhauser, Mathias Ortner and Matthieu Rouget | ONEATLAS, AIRBUS DEFENCE AND SPACE DIGITAL PLATFORM FOR IMAGERY | 11:50 - 12:10 | Francesca Cigna and Deodato Tapete | THE VALUE OF SAR BIG DATA FOR GEOHAZARD APPLICATIONS: AUTOMATED GRID PROCESSING OF ERS-1/2 AND ENVISAT DATA IN ESA'S G-POD |
| 12:10 - 12:30 | Erwin Goor, Jeroen Dries and Dirk Daems | Proba-V Mission Exploitation Platform | 12:10 - 12:30 | Ronan Fablet, Phi Viet, Redouane Lguensat and Bertrand Chapron | Exploiting ocean observation and simulation big data to improve satellite-derived geophysical products: Analog strategies |
| 12:30 - 14:00 | Lunch Break | | | | |
| 14:00 - 15:40 | Auditorium Session 7A - Big Data Selection and Compositing Chair: C. Corbane | | | Room Guillaume Session 7B - Large Scale Data Management Chair: M. Datcu | |
| 14:00 - 14:40 | L. John McGibbney | Big Data at NASA | 14:00 - 14:20 | Daniel Crichton, John S Hughes, Sean Hardman, Thomas Stein and Reta Beebe | A model-driven big data architecture for planetary data archives and research |
| | | | 14:20 - 14:40 | Mariam Brahem, Karine Zeitouni and Laurent Yeh | LARGE SCALE DATA MANAGEMENT OF ASTRONOMICAL SURVEYS WITH ASTROSPARK |
| 14:40 - 15:00 | Martin Sudmanns, Hannah Augustin, Anna-Maria Cavallaro, Dirk Tiede and Stefan Lang | ANALYSING GLOBAL SENTINEL-2 METADATA IN A WEB-BASED DASHBOARD | 14:40 - 15:00 | Pilar de Teodoro, Christophe Arviset, Sara Nieto and Jesus Salgado | CONSIDERING SCALE OUT ALTERNATIVES FOR BIG DATA VOLUME DATABASES |
| 15:00 - 15:20 | Pieter Kempeneers and Pierre Soille | Optimising Sentinel-2 image selection in a big data context | 15:00 - 15:20 | Christopher Lynnes, Kathleen Baynes and Mark McInerney | Archive Management of NASA Earth Observation Data to Support Cloud Analysis |
| 15:20 - 15:40 | Athanasios Karmas and Konstantinos Karantzalos | Scalable Cloud-based Computation of Consistent Surface Reflectance Mosaics at 10m from Sentinel-2 and Landsat-8 Missions | 15:20 - 15:40 | Nicolas Weiland, Stephan Kiemle, Markus Kunze and Torben Keßler | ONLINE EARTH OBSERVATION DATA MANAGEMENT |
| 15:40 - 16:00 | Coffee Break | | | | |
| 16:00 - 18:00 | Session 8 - Posters Session // Session 9 - Demos Session Chair: M. Iapaolo | | | | |
| 18:00 - 20:00 | Wine Tasting at Conference Centre | | | | |

| Time | 30 November 2017 | | | |
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| 8:40 - 10:20 | Auditorium Session 10A - Cloud Computing Chair: J.P. Gleyzes | | | Room Guillaume Session 10B - Data Preservation and Valorisation Chair: R. Leone |
| 8:40 - 09:00 | Olivier Thual | The stakes and prospects of Data Driven Modelling at CERFACS | 8:40 - 09:20 | Mirko Albani, Joost van Bemmelen and Giancarlo Rivolta ON THE SHOULDERS OF GIANTS: PROTOTYPING THE HERO VIRTUAL RESEARCH ENVIRONMENT FOR DATA VALORISATION OF HERITAGE MISSIONS |
| 9:00 - 9:20 | | | | Iolanda Maggio, Mirko Albani, Rosemarie Leone and Katrin Molch LONG-TERM DATA PRESERVATION DATA LIFECYCLE AND STANDARDISATION PROCESS |
| 9:20 - 09:40 | Alexander Jacob, Fernando Vicente-Guijalba, Harald Kristen, Armin Costa, Roberto Monsorno, Bartolomeo Ventura and Claudia Notarnicola | ORGANIZING ACCESS TO COMPLEX MULTI-DIMENSIONAL DATA: AN EXAMPLE FROM THE ESA SEOM SINCOHMAP PROJECT | 9:20 - 09:40 | Hampapuram Ramapriyan, Dawn Lowe and Kevin Murphy TOWARDS A PRESERVATION CONTENT STANDARD FOR EARTH OBSERVATION DATA |
| 09:40 - 10:00 | Claudio De Luca, Manuela Bonano, Francesco Casu, Riccardo Lanari, Michele Manunta, Mariarosaria Manzo and Ivana Zinno | LARGE SPATIAL SCALE GROUND DISPLACEMENT MAPPING THROUGH THE P-SBAS PROCESSING OF SENTINEL-1 DATA ON A CLOUD COMPUTING ENVIRONMENT | 09:40 - 10:00 | Julien Nosavan SPOT World Heritage: valorization and distribution of new enhanced SPOT 1-to-5 products |
| 10:00 - 10:20 | Giuseppe Ottavianelli, Mirko Albani, Roberto Biasutti, Bianca Hoersch, Herve Jeanjean, Henri Laur and Bruno Schmitt | BIG DATA FROM ESA EARTHNET THIRD PARTY MISSION PROGRAMME: OPPORTUNITIES AND FUTURE EVOLUTION | 10:00 - 10:20 | Christophe Arviset, Deborah Baines, Isa Barbarisi, Sebastien Besse, Guido De Marchi, Beatriz Martinez, Arnaud Masson, Bruno Merin, Jesus Salgado and Claire Vallat 20-years of ESA Space Science Data Archives Management |
| 10:20 - 10:50 | Coffee Break | | | |
| 10:50 - 12:30 | Auditorium Session 11A - Community Platforms Chair: S. Albani | | | Room Guillaume Session 11B - Object Detection, hierarchical image segmentation and mosaicking Chair: J. Inglada |
| 10:50 - 11:10 | Salvatore Pinto, Antonio Romeo, Alessandro Marin and Sveinung Loekken | Cloud based Earth Observation data exploitation platforms | 10:50 - 11:10 | François Merciol, Balem Thibaud and Sébastien Lefèvre Efficient and large-scale land cover classification using multiscale image analysis |
| 11:10 - 11:30 | Stefano Natali, Simone Mantovani, Gerhard Triebnig, Daniel Santillan, Marcus Hirtl and Cristiano Lopes | VIRTUAL EXPLOITATION ENVIRONMENT DEMONSTRATION FOR ATMOSPHERIC MISSIONS | 11:10 - 11:30 | Kostas Stamatou, Georgios Ouzounis and Nikki Aldeborgh UNSUPERVISED OBJECT DETECTION ON REMOTE SENSING IMAGERY USING HIERARCHICAL IMAGE REPRESENTATIONS AND DEEP LEARNING |
| 11:30 - 11:50 | Tuomas Häme, Renne Tergujeff, Yrjö Rauste, Clive Farquhar, Peter van Zetten, Philip Kershaw, Arnaud De Groof, Jarno Hämäläinen, Joost van Bemmelen and Frank Martin Seifert | Forestry TEP responds to user needs for Sentinel data value adding in cloud | 11:30 - 11:50 | Maria Kesa, Camille Pelloquin, Eleni Kroupi, Bahaeddin Alhaddad and Aureli Soria-Frisch URBAN BASELINE CLASSIFICATION THROUGH SEGMENTATION USING CONVOLUTIONAL NEURAL NETWORK METHODOLOGIES |
| 11:50 - 12:10 | Thomas Esch, Hubert Asamer, Jakub Balhar, Martin Boettcher, Enguerran Boissier, Andreas Hirner, Emmanuel Mathot, Mattia Marconcini, Annekatrin Metz, Hans Permana, Tomas Soukup, Soner Ureyen, Vaclav Svaton and Julian Zeidler | Monitoring Urbanization with Big Data from Space - The Urban Thematic Exploitation Platform | 11:50 - 12:10 | Stefanos Georganos, Tais Grippa, Moritz Lennert, Sabine Vanhuyse and Eléonore Wolff AN UNSUPERVISED SEGMENTATION PARAMETER OPTIMIZATION FRAMEWORK FOR BIG VHR DATASETS IN LAND USE LAND COVER URBAN APPLICATIONS |
| 12:10 - 12:30 | Joan Sala Calero, Gerrit Hendriksen, Jasper Dijkstra, Amrit Cado Van der Lelij, Mindert de Vries and Rudie Ekkelenkamp | FAST MI-SAFE PLATFORM: FORESHORE ASSESSMENT USING SPACE TECHNOLOGY | 12:10 - 12:30 | Vasileios Syrris, Christina Corbane and Pierre Soille A GLOBAL MOSAIC FROM COPERNICUS SENTINEL-1 DATA |
| 12:30 - 14:00 | Lunch Break | | | |
| 14:00 - 15:40 | Auditorium Session 12A - Institutional Platforms Chair: K. Molch | | | Room Guillaume Session 12B - Deep learning and neural networks Chair: M. Schick |
| 14:00 - 14:20 | Pierre Soille, Armin Burger, Davide De Marchi, Paul Hasenohr, Pieter Kempeneers, Dario Rodriguez Aseretto, Vasileios Syrris and Veselin Vasilev | The JRC Earth Observation Data and Processing Platform | 14:00 - 14:20 | Wei Yao, Dimitrios Marmanis and Mihai Datcu Semantic segmentation using the fully convolutional networks for SAR and optical image pairs |
| 14:20 - 14:40 | Sergio Albani, Michele Lazzarini, Paulo Nunes and Emanuele Angiuli | A PLATFORM FOR MANAGEMENT AND EXPLOITATION OF BIG GEOSPATIAL DATA IN THE SPACE AND SECURITY DOMAIN | 14:20 - 14:40 | Dimitrios Marmanis, Wei Yao, Fathalrahman Adam, Mihai Datcu, Peter Reinartz, Konrad Schindler, Jan Dirk Wegner and Uwe Stilla ARTIFICIAL GENERATION OF BIG DATA FOR IMPROVING IMAGE CLASSIFICATION: A GENERATIVE ADVERSARIAL NETWORK APPROACH ON SAR DATA |
| 14:40 - 15:00 | Joelle Donadieu, Roger Rutakaza Maneno, Simon Baillarin, Thierry Segur, Bastien Julie and Laurent Favot | MUSCATE, a Versatile Data and Services Infrastructure compatible with Public Cloud computing | 14:40 - 15:00 | Anne Braakmann-Folgmann, Ribana Roscher, Susanne Wenzel, Bernd Uebbing and Juergen Kusche Sea Level Anomaly Prediction using Recurrent Neural Networks |
| 15:00 - 15:20 | James Eggleston, Rui Santos and Gustavo Marques | Combing Small Housekeeping Data Lakes into a shared Big Data Infrastructure at ESOC - Achievements and Future Evolution | 15:00 - 15:20 | Anika Bettge, Ribana Roscher and Susanne Wenzel DEEP SELF-TAUGHT LEARNING FOR REMOTE SENSING IMAGE CLASSIFICATION |
| 15:20 - 15:40 | Neil Massey, Philip Kershaw, Matt Pritchard, Matt Pryor, Sam Pepler, Jonathan Churchill and Bryan Lawrence | Evolving JASMIN: High performance analysis and the data deluge | 15:20 - 15:40 | Noëlie Cherrier, Thibaut Castaings and Alexandre Boulch Forecasting ionospheric Total Electron Content maps with Deep Neural Networks |
| 15:40 - 16:10 | Coffee Break | | | |
| 16:10 - 17:00 | Session 13 - Panel with conclusions and recommendations Chair: J. Graf | | | |

1 December 2017

Optional Field Trip to Historic Fortified City of Carcassonne - registration onsite

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| 09:00 | Rendez-vous at the Compans Caffarelli metro station (close to the congress center) |
| 09:15 | Departure by bus to Carcassonne |
| 10:30 | Arrival in Carcassonne, where a guide will organise a walking visit of the city |
| 12:30 - 14:15 | Lunch in a restaurant (same menu for all) |
| 14:15 - 16:00 | Free time and visit of the Château Comtal |
| 16:00 | Departure to Toulouse |
| 17:30 | Arrival in Toulouse |

| Posters Session | |
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| Carla Orrù, Jakub Balhar, Adrian Stoica, Paulo Sacramento and Giancarlo Rivolta. | BIG DATA VISUALIZATION TOOLS IN EO MOBILE APPS |
| Javier Lozano, Marco Quartulli and Igor G. Olaizola. | CLIMATE EXTREME EVENTS DETECTION BASED ON WEATHER FORECASTING VARIABLES COMBINATION |
| Begum Demir. | BIG EARTH-ACCURATE AND SCALABLE PROCESSING OF BIG DATA IN EARTH OBSERVATION |
| Marta Casti, Silvano Fineschi, Rosario Messineo, Ester Antonucci, Angelo Fabio Mulone, Alessandro Bemporad, Andrea Fonti, Roberto Susino, Fabio Filippi, Daniele Telloni, Filomena Solitto and Michele Martino. | Data Integration of Remote Sensing and In situ Data from Several Solar Space Missions for Space Weather Services |
| Angelo Fabio Mulone, Roberto Morbidelli, Rosario Messineo, Mario Lattanzi, Ruben De March and Alberto Vecchiato. | Cross-Match of Astrometric Catalogues performed with Database Spatial technologies |
| David Berry. | EUMETSAT Submission Information Package (SIP) |
| Alber Sánchez and Gilberto Cámara. | BIG EARTH OBSERVATION DATA FOR FAST DETECTION OF DEFORESTATION USING ADAPTATIVE FILTERING |
| Sebastien Clerc, Mireille Paulin, Nicolas Gilles, Giulio Ceriola, Emmanuel Poupart, Vincent Garcia, Christian Taillan, Michael Aspetsberger, Sylvie Barrau-Huguet and Yoann Moreau. | Interconnecting platforms via WPS: experience from the CTEP/PEPS connection |
| Deodato Tapete, Francesca Cigna, Pietro Milillo, Daniele Perissin, Carmine Serio and Giovanni Milillo. WITH COSMO-SKYMED PERSISTENT SCATTERERS | BIG DATA ANALYTICS APPROACH FOR GEOSPATIAL INVESTIGATION OF URBAN GEOHAZARDS IN NAPLES, ITALY. |
| Samantha Lavender, Paul Healy, Ian Robinson, Regina Lally, Stephanie Ties, Darren Lumbroso, Elizabeth Valone, George Gibson, Lucrezia Tincani, Caroline Chambers, Chris Doyle, Andrew Lavender, Alexa Williams, John Auburn, Elma Jenkins, Arnaud Le Carvenec, Miguel Morgado, Simon Reid, Luca Innocente, Lisa Osborne, Heather Pitcher, Sebastian Clarke, Jamie Williams, Gina Tsarouchi, Jimmy Okori, Mark Harrison and Richard Jones. | APPLICATION OF EARTH OBSERVATION TO A UGANDAN DROUGHT AND FLOOD MITIGATION SERVICE |
| Rouven Volkmann, Christian Strobl, André Twele, Torsten Heinen and Christoph Reck. | Serving continuous and global high resolution satellite data - an example based on Sentinel-2 data |
| Raphaël d'Andrimont, Guido Lemoine and Marijn van der Velde. | Harnessing big data for Agriculture Monitoring: combining remote sensing, open access data and crowdsourcing |
| Jean-Christophe Dislaire, Christophe Baroux, Yanis Lisima and Sylvie Barrau Huguet. | DOCKER USED ON SPATIAL GROUND SEGMENT |
| Thor-Bjørn Ottosen, Geoffrey Petch, Mary Hanson and Carsten Ambelas Skjøth. | TOWARDS A MAP OF THE EUROPEAN TREE COVER BASED ON SENTINEL-2 |
| Fabien Castel, Gianluca Correndo and Alan F. Rees. | EO4WILDLIFE: A CLOUD PLATFORM TO EXPLOIT SATELLITE DATA FOR ANIMAL PROTECTION |
| Ruben De March, Maurizio Deffacis, Michele Cencetti, Fabio Filippi, Andrea Fonti, Chiara Leuzzi, Marco Montironi, Angelo Fabio Mulone and Rosario Messineo. | Innovative Approach for PMM Data Processing and Analytics |
| Zohair Sabeur, Gianluca Correndo, Galina Veres, Banafshe Arbab-Zavar, Geoffrey Neumann, Thomas Ivall, Fabien Castel, Jean-Michel Zigna and Jose Lorenzo. | EO BIG DATA ANALYTICS FOR THE DISCOVERY OF NEW TRENDS OF MARINE SPECIES HABITATS IN A CHANGING GLOBAL CLIMATE |
| Assia Kourgli, Youcef Oukil and Aichouche Belhadj-Aissa. | ADAPTING EFFICIENTLY MID-LEVEL FEATURES TO HIGH RESOLUTION SATELLITE IMAGES INDEXING |
| Jérôme Benveniste, Salvatore Dinardo, Giovanni Sabatino, Marco Restano and Américo Ambrózio. | SAR ALTIMETRY PROCESSING ON DEMAND SERVICE FOR CRYOSAT-2 AND SENTINEL-3 AT ESA G-POD |
| Roberto Cuccu, Giovanni Sabatino, José Manuel Delgado Blasco, Joost Van Bemmelen and Giancarlo Rivolta. | EARTH OBSERVATION DATA EXPLOITATION IN THE ERA OF BIG DATA: ESA'S RESEARCH AND SERVICE SUPPORT ENVIRONMENT |
| Joanna Emery, Philippe Lattes, Chadi Jaber and Kyriakos Konstantopoulos. | ATOS CODEX SPARKINDATA: PROMOTING USER UPTAKE OF AN EARTH OBSERVATION APPLICATION MARKETPLACE |
| Angelo De Santis, Lucilla Alfonsi, Claudio Cesaroni, Gianfranco Cianchini, Giugiana De Franceschi, Anna De Santis, Rita Di Giovambattista, Alessandro Ippolito, Dedalo Marchetti, Francisco Jose Pavon Carrasco, Loredana Perrone, Alessandro Piscini, Luca Spogli, Leonardo Amoruso, Marianna Carbone, Cristoforo Abbattista, Francesca Santoro and Daniela Drimaco. | How to approach to earthquake physics study by an integrated satellite and ground data analysis system: the SAFE ESA-funded Project |
| Jiquan Chen, Kyla Dahlin, Ranjeet John, Gabriela Shirkey, Susie R. Wu, Phil Robertson, Steve Hamilton, Lauren Cooper, Dave Lusch, Arnon Karnieli, Raffaele Laforzezza, Giovanni Sylos Labini, Angelo Amodio and Daniela Drimaco. | SOCIOECOLOGICAL CARBON PRODUCTION IN MANAGED AGRICULTURAL-FOREST LANDSCAPES |
| Carlo Ciancarelli and Arturo Intelisano. | KNOWLEDGE RETRIEVAL STRATEGY FOR SATELLITES SYSTEM MONITORING BASED ON DATA ANALYTICS TECHNIQUES |
| Badre Belabess, Musab Bairat, Houda Khrouf, Jeremy Lhez and Olivier Curé. | Scouter: Geo-social and real-time Anomaly Contextualization |
| Yousuke Ikehata, Takahiro Minami, Yuji Shimomura, Hidekazu Mikai and Naoyuki Fujita. | EFFICIENT PROTOCOLS TO STORE AND TRANSMIT FOR BIG DATA GENERATED BY EARTH OBSERVATION SATELLITES |
| Laszlo Bacsardi, Gergely Bencsik and Zoltan Podor. | New Methodologies To Analyze Big Data From Space With a Special Focus on Earth Observation Data |
| Sébastien Dorgan, Vincent Gaudissart and Stephan Aime. | FROM HPC TO HYBRID CLOUD COMPUTING |
| Daniel Zinkiewicz, Jacek Rapiński and Michał Bednarczyk. | JUPYTER IDE AS A CONCEPT OF INTEGRATED DEVELOPMENT ENVIRONMENT FOR EO DATA CLOUD-BASED PROCESSING SOLUTIONS |
| Miguel Homem, Nuno Grosso, Nuno Catarino, Eirini Politi, Rory Scarrot and Abigail Cronin. | THE COASTAL WATERS RESEARCH SYNERGY FRAMEWORK, FOR UNLOCKING OUR POTENTIAL FOR COASTAL INNOVATION GROWTH |
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