

MONDAY 4 SEPTEMBER 2017

Start	Finish	Pleiades Room			Start	Finish
9:00	9:10	Welcome			9:00	9:10
9:10	9:30	Conference Open Mark Woffenden			9:10	9:30
9:30	10:20	Keynote Speaker 1: Paul Hodkiewicz			9:30	10:20
10:20	10:50	Morning Tea - Sirius Room			10:20	10:50
10:50	11:40	Student Awards Competition			10:50	11:40
11:40	11:50	Short break			11:40	11:50
		Pleiades Room	King Sound Room	Admiralty Room		
Concurrent Session 1						
11:50	12:50	Concurrent Session 1A Geostatistics - Other Geostatistical Methods	Concurrent Session 1B Fractal and Multi-Fractal Modelling, Singularity Analysis	Concurrent Session 1C Numerical Modelling and Numerical Simulation	11:50	12:50
11:50	12:10	93: Simulation Of Coherent Multiscale Facies Realizations Using A Multiple Point Statistics Algorithm Gaetan Bardy	210: What Do We Do With All These Data? Ore Exploration Using Modern Technology. Alison Ord	104: A Review Of Verification Approaches Applicable To Stratigraphic Forward Modelling Cedric Griffiths	11:50	12:10
12:10	12:30	240: Integration Of Basin And Geostatistical Reservoir Modeling In The Permian Basin Jeffrey Yarus	211: Nonlinear Episodic And Chaotic Behaviour Of Orogenic Gold Systems Bruce Hobbs	17: Numerical Model Of Two-phase Flow In Dissolvable Porous Media And Simulation Of Reservoir Acidizing Eduard Khrumchenkov	12:10	12:30
12:30	12:50	209: Towards High Dimensionality Problems In Structural Geological Modeling As Bayesian Inference Miguel De La Varga	228: Fractal Density Theory And Singularity Analysis Methods For Characterization And Prediction Of Extreme Earth Systems Events Qiuming Cheng	8: Numerical Simulation Of Flue Gas Injection For Eor And Sequestration: Case Study Serdar Bender	12:30	12:50
12:50	14:20	Lunch Break - Sirius Room			12:50	14:20
		Pleiades Room	King Sound Room	Admiralty Room		
Concurrent Session 2						
14:20	16:00	Concurrent Session 2A Numerical Modelling and Numerical Simulation	Concurrent Session 2B Fractal and Multi-Fractal Modelling, Singularity Analysis	Concurrent Session 1C Numerical Modelling and Numerical Simulation	14:20	16:00
14:20	14:40	172: New Mathematical Methods For Mineral Resources Estimation Ayham Zaitouny	113: Singularity Mapping And Geochemical Indexes In Mineral Deposits Exploration Mario Goncalves	205: "lumpy": A User friendly And Powerful Tool To Test Environmental Tracer Measurements For Their Fit To Various Age Distributions Axel Suckow	14:20	14:40
14:40	15:00	212: Improving The Accuracy Of High-order Galerkin Methods For Wave Propagation Problems Vladimir Puzyrev	235: Exploring Characteristics Of Geochemical Elements And Their Relationships: A Multifractal Perspective Jian Wang	41: Prediction Models Of Organic Pores In Shale Qiulin Guo, Na Wu	14:40	15:00
15:00	15:20	76: Novel "high-order" Integral Equation Solver Mikhail Kruglyakov	90: Comparative Study On Various Singularity Index Mapping Methods And Their Applications Wenlei Wang	158: When? Where? How Much? Jaime Gomez-Hernandez	15:00	15:20
15:20	15:40	135: Geostatistical Reservoir Characterization To Predict Best Litho-fluids Discriminators For Lumshwal Sandstone: A Rock Physics Based Study Nisar Ahmed	52: Non-linear Singularity Theory For Recognition Of Bleg Data With Catchment Area Geochemical Anomalies Behnam Sadeghi	217: Random Walk Simulation Of Multi-phase Immiscible Flow Through Porous Media Vikrant Vishal, Juliana Y. Leung	15:20	15:40
15:40	16:00	226: Use Of Spectral Decomposition And Rock Physics Modeling For Prospect Identification In Southern Punjab Platform Of Pakistan Pervez Khalid	83: Wavelet-based Fractal Filtering For Separating Geo-anomalies From Background Field Guoxiong Chen	194: Modelling Of The Microstructure Of A Clastic Oil And Gas Reservoir Rock Using Molecular Dynamics Simulation. Vladimir Berezovsky	15:40	16:00
16:00	16:30	Afternoon Tea - Sirius Room			16:00	16:30
		Pleiades Room	King Sound Room	Admiralty Room		
Concurrent Session 3						
16:30	17:50	Concurrent Session 3A Statistics (excluding geostatistics) - Other Statistical Methods (excluding geostatistics)	Concurrent Session 3B Fractal and Multi-Fractal Modelling, Singularity Analysis	Concurrent Session 3C Energy & Hyrdogeology	16:30	17:50
16:30	16:50	38: Statistical Analysis Of Fracture Surface Topography In Fracture Structural Analysis Xin Wang	142: Multifractal Analysis Of Ionospheric Total Electron Content Data During Different Solar Activities Enamundram Chandrasekhar	32: Rejection Of Ti And Generation Of Facies Probability From Production Data Without Inverse Algorithms Kyungbook Lee	16:30	16:50
16:50	17:10	203: Characterising Fold Geometry Using Bayesian Inference For Implicit 3d Modelling Lachlan Grose	105: Wavelet-based Multifractal Analysis Of Ionospheric Total Electron Content Data Shivam Bhardwaj	56: Small Sample Analysis For Using Copulas In Petroleum Resource Assessment Qian Zhang	16:50	17:10
17:10	17:30	31: Investigating The Relationship Between Fluid Injection And Triggered Seismicity In Southern Italy Luciano Telesca		45: Trend Of Oil And Gas Reserves Growth In China Na Wu, Qiulin Guo	17:10	17:30
17:30	17:50	20: Life Style And Morbidity Pattern Among The Residents Of Metropolitan Areas In India Abhisek Bera		42: A Class Of Forecasting Model Under Oil Supply And Demand Balance Wei Yan	17:30	17:50
17:50	18:10			66: Characterization Of Channel Reservoirs Using Enkf With A Linear Filter And Normal Score Transform Jungyu Park, Jonggeun Choe	17:50	18:10

TUESDAY 5 SEPTEMBER 2017

Start		Pleiades Room			Start Finish	
9:00	9:50	Keynote Speaker 2: Matheron Lecturer Professor Noel Cressie 244: A conditional approach to multivariate geostatistics			9:00	9:50
9:50	10:00	Short break			9:50	10:00
		Pleiades Room	King Sound Room	Admiralty Room		
Concurrent Session 4						
10:00	11:00	Concurrent Session 4A Geostatistics - Two Point Geostatistics	Concurrent Session 4B Numerical Modelling and Numerical Simulation	Concurrent Session 4C Machine Learning, Pattern Recognition, Data Mining, Big Data	10:00	11:00
10:00	10:20	85: Modeling And Simulating Bivariate Gaussian Random Fields Olga Moreva	193: Predicting The Location Of Unconformity-related Uranium Deposits Using Numerical Simulations On A Supercomputer Heather Sheldon	197: Learning Characteristic Natural Gamma Shale Marker Signatures In Iron Ore Deposits David Nathan	10:00	10:20
10:20	10:40	145: A Continuous Spectral Algorithm For Simulating Stationary And Non-stationary Vector Gaussian Random Fields Daisy Arroyo	204: Improved Methods For Simulation Of Ore-forming Processes In 3d Peter Schaub	200: Ensemble Clustering For Zonation Of Well Logs Irina Emelyanova	10:20	10:40
10:40	11:00	177: Modeling And Fitting Mineral Microstructures By Multinary Random Fields Jakob Teichmann, Peter Menzel	84: Mapping The Parameter Space Of Stick-slip Oscillations In Chemical Shear Zones Thomas Poulet	27: Automatic Analysis Of Measure While Drilling Data To Facilitate Manual Boundary Updates Katherine Silversides	10:40	11:00
11:00	11:30	Morning Tea and Poster Session - Sirius Room			11:00	11:30
		Pleiades Room	King Sound Room	Admiralty Room		
Concurrent Session 5						
11:30	12:50	Concurrent Session 5A Geostatistics - Misc	Concurrent Session 5B Numerical Modelling and Numerical Simulation	Concurrent Session 5C Machine Learning, Pattern Recognition, Data Mining, Big Data	11:30	12:50
11:30	11:50	15: Uncertainty Assessment Of Experimental Semivariogram And Its Model Parameters: A Nonstationary Case Oktay Erten	39: Principal Tensor Analysis As A Tool For Paleoclimatic Reconstructions Sergey Kotov	202: Automating Well Log Interpretations Christopher Dyt	11:30	11:50
11:50	12:10	182: Models And Methods For Contact Analysis Ute Mueller	175: A New Mathematical Approach Applying The Virial Theorem To Planetary Atmospheres: Water Vapour As A Prime Mover In Climate Change Ivan Kennedy, Migdat Hodzic	213: Unsupervised Learning Algorithms For Effective Core Sampling Strategy Oliver Gaede	11:50	12:10
12:10	12:30	170: Geostatistical Analysis Of Satellite Interferometric Synthetic Aperture Radar (Insar), Lidar And Data For Geotechnical Asset Monitoring Of Ground Instability Jennifer Mckinley	234: Data - Driven Koopman Analysis Of Tropical Climate Space - Time Variability Joanna Slawinska	19: A Spectral Clustering Method For Multivariate Geostatistical Data Francky Fouedjio	12:10	12:30
12:30	12:50	130: Modeling The Space-time Variations Of Lead In Drinking Water By Multivariate Indicator Geostatistics Pierre Goovaerts	7: Analysis Of Super Sub-storm Events With Reference To Polar Cap Potential And Polar Cap Index Binod Adhikari	63: Spatially Constrained Clustering Of Geometallurgical Variables Exequiel Sepulveda	12:30	12:50
12:50	14:20	Lunch Break and Poster Session - Sirius Room			12:50	14:20
14:20	15:20	Vistelius Award - Pleiades Room 239: . Multiple Point Statistics For Reservoir And Porous Media Modeling Pejamn Tahmasebi			14:20	15:20
15:20	16:10	Poster Session - Sirius Room			15:20	16:10
16:10	16:40	Afternoon Tea - Sirius Room			16:10	16:40

TUESDAY 5 SEPTEMBER 2017

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Pleiades Room		King Sound Room		Admiralty Room		
Concurrent Session 6						
16:40	18:00	Concurrent Session 6A Geostatistics - Misc	Concurrent Session 6B Climate Science	Concurrent Session 6C Machine Learning, Pattern Recognition, Data Mining, Big Data	16:40	18:00
16:40	17:00	74: Geostatistical Mapping Of Groundwater Levels Bhabesh Chandra Sarkar	43: The Formation Mechanisms Of The Alteration Halos At The Tungsten Deposits, South China Xiangchong Liu	61: Automatic Detection Of Sub-domain Using T-sne For Improved Mine Modelling Mehala Balamurali	16:40	17:00
17:00	17:20	186: Study Of Weathering Legacies In Building Stone; A Geostatistical Approach Brian Johnston	152: Numerical Modelling Of Fluid Flow And Heat Transfer In The Gejiu Tin-copper Polymetallic Hydrothermal Mineralization System, Yunnan, China: Implications For Exploration Of Deep Buried Ore Deposits Fan Xiao	154: Classification Trees As An Aid For Domaning In Mineral Resource Estimation Gunes Ertunc	17:00	17:20
17:20	17:40	53: Determination Of Erosion Risk In Yeka Ankorucha Catchment Using 'rusle' Model, Gis And Rs Zebene Worku Woldegeorgis	134: Tectonic Stress Estimation Of The Indian Continent Using Numerical Simulation Radheshyam Yadav	176: Lithology Identification In Complex Carbonate Reservoir By Kernel Method Using Logs Shaoqun Dong	17:20	17:40
17:40	18:00			185: Non-linear Modelling And Classification Of Susceptible Flood Regions Using The Patterns Of Neural Network In Atypical Basement Complex Terrain. Jelili Adedeji	17:40	18:00

WEDNESDAY 6 SEPTEMBER 2017

Start	Finish	Pleiades Room			Start	Finish
9:00	9:50	Keynote Speaker 3 Vera Pawlowsky Glahn 127: The one hour course on compositional data analysis — from 1997 to 2017.			9:00	9:50
9:50	10:00	Short break			9:50	10:00
		Pleiades Room	King Sound Room	Admiralty Room		
Concurrent Session 7						
10:00	11:00	Concurrent Session 7A Optimisation and Operations Research	Concurrent Session 7B Geoinformatics	Concurrent Session 7C Image Analysis	10:00	11:00
10:00	10:20	138: Methods For Process Recognition And Process Validation In Multi-element Geochemical Datasets Eric Grunsky	18: The Topology Of Geology Mark Jessell	148: Sampling Scheme Optimization Based On Hyperspectral Data Ting Zhao	10:00	10:20
10:20	10:40	96: A Perspective On Composition Simon Gatehouse	114: A Database For Large Geomodels Featuring A Tiling Approach Applied To Arbitrary Geometry Primitives Georg Semmler	65: Remote Sensing – How Fast Is Fast Enough? Miles Sowden	10:20	10:40
10:40	11:00	141: Principal Component Analysis Of Low-density Geochemical Data From The Southern Thomson Orogen Philip Main	79: A Database Scheme For Multiple Spatially Referenced Ebsd Data Björn Wiecek	149: Multisensory System, Which Includes Hyperspectral Measurement, For Automated Geological Mapping Sebastian Varga	10:40	11:00
11:00	11:30	Morning Tea and Poster Session - Sirius Room			11:00	11:30
		Pleiades Room	King Sound Room	Admiralty Room		
Concurrent Session 8						
11:30	12:50	Concurrent Session 8A Optimisation and Operations Research	Concurrent Session 8B Geoinformatics	Concurrent Session 8C Machine Learning, Pattern Recognition, Data Mining, Big Data	11:30	12:50
11:30	11:50	162: Mathematical Issues On Hydrochemistry Mapping With An Application To The Concentration Of 11 Ions In Varanasi, Uttar Pradesh, India Juan Jose Egozcue	165: Vector Parameters-based Uncertainty Visualization Analysis Of 3d Geological Subsurface Weisheng Hou	49: Optimization Of Well Placement By Pso Assisted By Quality Map And Gompertz Model Shuaiwei Ding	11:30	11:50
11:50	12:10	129: Classical And Robust Regression Between Parts Of Compositional Data Using Symmetric Balances Karel Hron	214: Geo3dmd: A 3d Geological Model Metadata Architecture Honggang Qu, Zhenwen He, Xinchuan Li, Xianghong Wang	121: Multi-fidelity Meta-modeling Based On Co-kriging For Uncertainty Quantification And History-matching Veronique Gervais	11:50	12:10
12:10	12:30	139: Analysis Of Coal Combustion Products Using Compositional Data Techniques Josep-Antoni Martin-Fernandez	206: On The System Architecture Of Geological Big Data In China Geological Survey Yongjie Tan	136: Forecasting Shale Gas Production Using A Spatiotemporal Hierarchical Bayesian Model Justin Montgomery	12:10	12:30
12:30	12:50	92: Determination Of End-members Using Log-ratio Transformed Geochemical Data From Hybrid Samples Jie Zhao	198: 3-dimension Geological Mapping Of Qingjiang Basin Based On Multi-geophysical Data Jianguo Chen	54: A New Algorithm For Facies Modeling Based On Neural Network And Kriging Theories Suihong Song	12:30	12:50
12:50	14:20	Lunch Break and Poster Session - Sirius Room			12:50	14:20
14:20	15:20	Chayes Award - Pleiades Room Cliff Stanley			14:20	15:20
15:20	16:10	Poster Session - Sirius Room			15:20	16:10
16:10	16:40	Afternoon Tea - Sirius Room			16:10	16:40
		Pleiades Room	King Sound Room	Admiralty Room		
Concurrent Session 9						
16:40	18:00	Concurrent Session 9A Statistics (excluding geostatistics) Multivariate Statistics	Concurrent Session 9B Geoinformatics	Concurrent Session 9C Machine Learning, Pattern Recognition, Data Mining, Big Data	16:40	18:00
16:40	17:00	69: Multivariate Statistical Analyses Of La-icp-ms Trace Element Data For Iron-oxides Marija Dmitrijeva	10: The Calculation Of The Z Coordinate In The Water Basin Naji Kehdy	147: Potential Modeling With Uncertain Covariables Helmut Schaeben	16:40	17:00
17:00	17:20	133: Bayesian Analysis Of Spatial Beta Generalized Linear Mixed Models Mohsen Mohammadzadeh	221: Using High-resolution Dem And Swat Model For Surface Water Resource Management In Ajay River Basin, India Sujay Bandyopadhyay	112: Logistic Regression Model Selection Strategy For Prospectivity Modeling With Large Datasets Samuel Kost	17:00	17:20
17:20	17:40	181: Ocean Wave Storm Trends In The Catalan Coast. A Bayesian And Compositional Approach M. I. Ortego	144: Colour Maps For The Colour Blind Peter Kovsi	25: Landslide Susceptibility Assessment Using Freely Downloadable Data And Data Mining Techniques Biswajeet Pradhan	17:20	17:40
17:40	18:00	241: A Comparative Geostatistical Modeling Study For Mapping Ultimate Analyses Data Of Coal Using Direct And Compositional Approaches Ozgen Karacan	183: Integrated Exploration Platform: Computer-assisted Approach To Multi-data Interpretation For Mineral Exploration. Eun-Jung Holden		17:40	18:00
19:00	0:00	Conference Dinner				

THURSDAY 7 SEPTEMBER 2017

Start	Finish	Pleiades Room			Start	Finish
9:00	9:20	208: Benefits Of Integrated Three-dimensional Geological And Hydrogeological Modelling For Groundwater Resource Investigations: An Example From The Condamine River Catchment (Queensland, Australia) Matthias Raiber			9:00	9:20
		Pleiades Room	King Sound Room	Admiralty Room		
Concurrent Session 10						
9:20	11:00	Concurrent Session 10A Geostatistics - Misc		Concurrent Session 10B		Concurrent Session 10C Mining Applications
9:20	9:40	225: Block Predictions Of Compositional Data With High Order Geostatistics Raimon Tolosana-Delgado	201: Estimation Of Predicted Resources By Ore Deposit Model-synthetic Geological Information Volumetric Method Sun Li	191: A Bayesian Approach For Predicting Rockburst Amoussou Coffi Adoko	9:20	9:40
9:40	10:00	223: Model-based Multiple-point Statistics And Training Model Estimation Karl Gerald Van Den Boogaart	123: Statistical Analysis Of Geometric Fault Attributes Extracted From Seismic Data In The Barents Sea Dmitriy Kolyukhin	150: Changepoint Analysis Of Mwd Data To Detect The Broken Ground Thickness In Open Pit Mining Veena Sajith Vezhapparambu	9:40	10:00
10:00	10:20	188: Deep Kriging Of Geometallurgical Variables Alfredo López	178: Petrographical Microscopy Reloaded With Object Based Image Analysis Robert Marschallinger	167: Real-time Updating Of The Geomet Model Based On Ball Mill Performance Measurements Tom Wambeke	10:00	10:20
10:20	10:40	28: 3d Geological Modeling For Subsurface Targeting In Zaozigou Au Deposit Of West Qinling Belt, China Gongwen Wang	229: Semi-automated Texture Classification For Geometallurgical Applications Julian Ortiz	160: Real-time Mining – Turning Operational Data Into Mining Intelligence Jörg Benndorf	10:20	10:40
10:40	11:00	243: Some Geostatistical Methods Through The Stochastic Partial Differential Equation (Spde) Approach Didier Renard	189: Petroscan: Mineral And Pattern Recognition In Thin Sections Florian Wellmann	192: Application Of Resource And Grade Control Model Updating By Univariate And Compositional Sequential Ensemble Filtering Angel Prior	10:40	11:00
11:00	11:30	Morning Tea - Sirius Room			11:00	11:30
		Pleiades Room	King Sound Room	Admiralty Room		
Concurrent Session 11						
11:30	12:50	Concurrent Session 11A Geostatistics - Mining Geostatistics		Concurrent Session 11B		Concurrent Session 11C Optimisation and Operations Research
11:30	11:50	118: Declustering Weights And Mik Variography Danny Kentwell	99: Image Texture Quantification From Corescan Mineral Classifications Matthew Cracknell	242: Stochastic Optimization Taking Account Of Seismicity Induced By Block Caving Applied To Underground Copper Mining In Chile Margaret Armstrong	11:30	11:50
11:50	12:10	224: Direct Mineral Resource Classification Using Conditional Simulation Alejandro Cáceres	109: Extraction Of Fission Tracks From Photomicrographs Using Thresholding And Skeletonization Alexandre Fioravante De Siqueira	156: Optimising The Mining Of Lateritic Metal Ore Deposits Using Pilot Points: Finding The Trade-off Between Dilution And Ore Loss Yasin Dagsan	11:50	12:10
12:10	12:30	163: Geostatistical Simulation Of Compositional Data In The Presence Of Several Geological Domains Hassan Talebi	128: Representing Topology And Geometry Of 3d Ore Microstructures With Gmaps Peter Menzel	238: Risk-based Mine Planning Optimisation Using Topcone Algorithm And Stochastic Integer Programming Ngoc Luan Mai, Erkan Topal, Oktay Erten	12:10	12:30
12:30	12:50	179: Spatial Characteristics Of Cu-au And Associated Metals In Relation With The Geology Of Porphyritic Deposit, North Sulawesi, Indonesia Mohamad Nur Heriawan	220: Adaptive Neuro-fuzzy Inference System (Anfis) For Classification Of Iron Ore Using Vision Based System Amit Kumar Gorai		12:30	12:50
12:50	14:20	Lunch Break - Sirius Room				
		Pleiades Room	King Sound Room	Admiralty Room		
Concurrent Session 12						
14:20	15:40	Concurrent Session 12A Geostatistics - Mining Geostatistics		Concurrent Session 12B Machine Learning, Pattern Recognition, Data Mining, Big Data		Concurrent Session 12C Inverse Problem solving
14:20	14:40	35: On The Notion Of Conditional Variance Of Recoverable Ore Grade Oscar Rondon	161: Machine Learning For Integration Of Geochemical And Logging Data In Support Of Resource Estimation Natalie Caciagli	124: Solving Spatial Inverse Problems With Training Image-based Priors Using Graph Cuts Gregoire Mariethoz	14:20	14:40
14:40	15:00	98: Predicting Short Term Uncertainty For Coal Quality Parameters Ranjan Saha	132: Automatic Lithological Classification Using Machine Learning Algorithms Patrick Ohm	108: Inverting Magnetic Observations For Dyke Swarm 3d Modelling Desmond Fitzgerald	14:40	15:00

THURSDAY 7 SEPTEMBER 2017

Pleiades Room		King Sound Room		Admiralty Room	
15:00	15:20	159: Small Blocks From Bigger Blocks: Uniform Conditioning Or Conditional Simulation? Isobel Clark	103: A Geological Big Data Processing System Based On Spark And Machine Learning Yongzhi Wang	100: Transdimensional Inversion Of Surface Wave Ellipticity Laurence Davies	15:00 15:20
15:20	15:40	111: Comparing The Efficiency Of Ore-waste Classification By Linear And Non-linear Kriging Amin Hekmatnejad	174: Application Of The Machine Learning Approach To Subsurface Structural Mapping John Stephen Kayode	95: Application Of Hybrid Psogsa Based Approach For Multi-parameter Estimation From Potential Field Data Shubham Priyadarshi	15:20 15:40
15:40	16:10	Afternoon Tea - Sirius Room			15:40 16:10
16:10	17:10	IAMG Distinguished Lecturer Professor Clayton Deutsch All Realizations All the Time			16:10 17:10
17:10	17:20	Conference Closing			17:10 17:20
17:20	17:30	Student Awards			17:20 17:30