

IAU Symposium n.325 on Astroinformatics - official program October 20-24 2016

	START	END	TYPE		TITLE
20/10/2016			Current and Future Surveys		
	9.00	9.25	Welcome and logistic		
	9.25	10.00	Invited	G. Djorgovski	From the Morphological Box to Multidimensional Datascape
	10.00	10.30	Invited	Z. Ivezić	Everything I'd like to do with LSST data, but don't know (yet) how
	10.30	11.00	Invited	E. Gangler	The European perspective for LSST
	11.00	11.30	<i>coffee break</i>		
	11.30	12.00	Invited	A. Scaife	Big Telescope, Big Data: Indirect Imaging in the SKA Era
	12.00	12.30	Invited	P. Dubath	Euclid data processing challenges
	12.30	12.45	Contributed	S. Casertano	Photometric redshifts estimation based on a cooperative approach among methods
			<i>Lunch break</i>		
	14.30	15.00	Invited	R. Norris	Astroinformatics challenges from next-generation radio continuum surveys
	15.00	15.30	Invited	K. Chambers	Big Data from Pan-STARRS, a bonanza for data mining
	15.30	15.45	Contributed	Yue WU	Spectral parameterization for OBA type hot stars observed in large survey project
	15.45	16.00	Contributed	E. Valentijn	Data federations- AstroWise and its applications
	16.00	16.30	<i>coffee break</i>		
	16.30	17.00	Contributed	G. Riccio	C3: A Command-line Catalogue Cross-matching tool for modern astrophysical survey data
	17.00	17.15	Contributed	J. Hare	Application of Machine-learning Techniques to Understand the Nature of X-ray and Gamma-ray Sources
	17.15	17.30	Invited	S. Doleman	Event Horizon Telescope
	17.30	18.30	Discussion	Panel	Emerging needs from current and future surveys
21/10/2016			Time Domain and Cosmology		
	9.00	9.30	Invited	E. Feigelson	The changing landscape of astroinformatics
	9.30	10.00	Invited	M. Graham	Detection of quasars in the Time Domain
	10.00	10.30	Invited	P. Estevez	Big Data Era Challenges in Time Domain Astronomy
	10.30	10.45	Contributed	N. Gianniotis	Advances in Time Series Analysis
	10.45	11.30	<i>coffee break</i>		
	11.30	12.00	Invited	B. Schutz	Time-series deep search: gravitational wave signals in LIGO and Virgo
	12.00	12.30	Invited	F. Forster	HiTS: The High cadence Transient Survey
	12.30	12.45	Contributed	E. Ishida	Exploring the spectroscopic diversity of type Ia supernovae with Deep Learning and Unsupervised Clustering
			<i>Lunch break</i>		
	14.30	15.00	Invited	P. Huijse	Astronomical time series analysis using Information Theoretic Criteria
	15.00	15.15	Contributed	P. Protopapas	Bayesian Feature Transformation for Domain Adaptation
	15.15	16.00	Discussion	Panel	Needs and opportunities in time domain astronomy
	16.00	16.30	<i>coffee break</i>		
	16.30	17.00	Invited	R. Allison	Big Data and the CMB
	17.00	17.30	Invited	T. Ishiyama	Supercomputer simulations of structure formation in the Universe
	17.30	17.45	Contributed	R. Street	Current and Future Timeseries Analysis Challenges in Microlensing
	17.45	18.00	Contributed	P. Skoda	Identification of Interesting Objects in Large Spectral Surveys using Parallelized ML

	18.00	18.15	Contributed	Q. Feng	Classification of gamma-ray and cosmic-ray events in VERITAS data
22/10/2016			Data Visualization		
	9.30	10.00	Invited	E. Merényi	Deep data: discovery and visualization
	10.00	10.30	Invited	S. Molinari	Visualization-driven access and analysis to astronomical knowledge bases: the case of VIALACTEA
	10.30	10.45	Contributed	M. Breddels	Visualizing and exploring a billion objects interactively with vaex
	10.45	11.00	Contributed	D. Vohl	Collaborative visual analytics of radio surveys in the Big Data era
	11.00	12.00	<i>coffee break</i>		
	12.00	12.30	Invited	Goodman/Robitaille	The Value of High-Dimensional Data Visualization in Science
	12.30	13.15	Discussion	Panel	New directions in data visualization
FREE AFTERNOON AND SOCIAL EVENT					
23/10/2016			Interdisciplinary Connections and Machine Learning		
	9.00	9.30	Invited	F. Murtagh	Linear-time hierarchical matching and regression: Application to SDSS spectroscopic and photometric redshifts
	9.30	10.00	Invited	R. Peletier	SUNDIAL: Survey Network for Deep Imaging Analysis and Learning
	10.00	10.30	Invited	D. Crichton	Data Science Methodology Transfer from Space Science to Medicine
	10.30	11.00	Invited	M. Kurtz	The Hausdorff Dimension of Scholarly Thought is Seven plus/minus One
	11.00	11.30	<i>coffee break</i>		
	11.30	12.00	Invited	V. Pankratius	Computer-Aided Discovery in Astronomy: Leveraging Machine Intelligence for Scientific Insight Generation
	12.00	12.30	Invited	A. De Vries	Machine learning using R, SQL Server and the Worldwide Telescope
			<i>Lunch break</i>		
	14.30	15.00	Invited	M. Biehl	Prototype-based models in machine learning
	15.00	15.15	Contributed	J. Mazzarella	Evolution of the NASA/IPAC Extragalactic Database (NED) into a data mining discovery engine
	15.15	15.30	Contributed	J. Aleksić	Transient events in LSST survey data
	15.30	15.45	Contributed	T. van der Hulst	3D interactive visualisation tools for HI spectral line imaging
	15.45	16.15	Invited	A. Mahabal	From Sky to Earth: Data Science Methodology Transfer
	16.15	16.30	<i>coffee break</i>		
	16.30	17.15	Discussion	Panel	What we have learned, where we are, and where we are going?
	17.15	18.30	Poster session and open discussion		
24/10/2016			Astroinformatics projects		
	9.15	9.30	Contributed	D. Tuccillo	Deep learning ANN for studies of galaxy morphology
	9.30	9.45	Contributed	A. Mickaelian	Multi-wavelength studies of the statistical properties of active galaxies using Big Data
	9.45	10.00	Contributed	S. Heap	Application of the 20-question Methodology to the WFIRST Science Data Archives
	10.00	10.15	Contributed	A. Green	What will the future of cloud-based astronomical data processing look like?

10.15	10.30	Contributed	M. Süveges	Learn from every mistake! Information combination for regression and classification in astronomy
10.30	11.00	Invited	K. Polsterer	A Spectral Model for Multimodal Redshift Estimation
11.00	11.30	<i>coffee break</i>		
11.30	12.30	Discussion	Panel	Issues arising and conference summary
12.30	12.45	Closing	LOC and SOC chairs	

END OF IAU MEETING

DAY 5 Afternoon + DAY 6 dedicated to COST ACTION BIG-SKY-EARTH