Conference Year	Education and Public Outreach	Science Data Pipelines	Information Technology	Science & Analysis	Telescopes & Observatory Operations	Virtual Observatory	S/W Development Methodologies	Sky Surveys	Enabling Technologies	Grid/Parallel Computing	Data Archives	Solar/Planetary/Transient Science
1998			Y	Y	Y				Y		Y	
1999			Y	Y	Y		Y	Y	Y			
2000	Y	Y					Y	Y	Y			
2001		Y	Y	Y		Y			Y			
2002	Y	Y	Y	Y	Y	Y	Y	Y	Y			
2003		Y		Y	Y	Y				Y	YY	
2004				Y	Y	Y						
2005		Y	Y		Y	Y		Y	Y	Y	Y	Y
2006		Y	Y				Y			Y		Y
2007				Y		Y				Y	Y	
2008				Y			Y	Y	Y			
2009						Y	Y	Y	Y		Y	
2010	Y			Y	Y					Y		Y
2011				Y	Y	Y	Y			Y		Y
2012	Y			Y	Y				Y	Y	Y	Y
2013				Y	Y		Y		Y			
2014			Y	Y				Y	YY	Y	Y	
	Variations on the main themes throughout the years											
	Education and Public Outreach(2000, 2010)	Science Data Pipelines(2000)	Astrostatistics and Databases (1998)	Data Analysis (1998)	Observatory Planning, Scheduling, Telescope Control (1998)	The Virtual Observatory (2001, 2004)	Scripting Languages (1999)	Sky Surveys (1999, 2000,2002)	Computation Infrastructure and Future Technologies (1998)	High Performance Computing(2003)	Archiving(1998)	Solar Eclipse (2005)
	Outreach and Education(2002)	Calibration & Pipeline Reduction (2001)	Information Services (1998)	Computational Astrophysics (1998)	Queue Scheduling (1999)	Virtual Observatory Technologies (2002)	Software Development Methodologies and Technologies (1999, 2000)	Optical Surveys(2005)	Enabling Technologies(1999,2000, 2001, 2002)	Parallel & Distributed Computing(2005)	Large Scale Data Management(2003)	Solar Neighborhood and Planetary Astronomy (2006)
	Web Servisce and Publications (2002)	Calibration(2002)	Distributed Data Systems and Services (1999)	Image Processing and Data Visualization (1998,2007)	Telescope and Observatory Operations (2002)	Virtual Observatory Interoperability(2002)	Software Applications (2000)	Footprints & Mosaics(2007)	Tools & Techniques(2005)	Modern Grid Computing in Astronomy (2006)	Surveys & Data Management(2003)	Solar Astronomy(2010,2011)
	Visualization and Software for EPO and Public Affairs (2012)	Data Management & Pipelines(2002)	Information Technology (2001)	General Analysis (1999)	Control Systems(2003)	Virtual Observatory and Archives (2002)	Software History (2000)	Future Large Projects(2008)	Web Technologies(2008)	HEP Computing(2007)	Data Quality & Fidelity(2005)	Enabling Transient Research (2012)
	Community Development (2012)	Data Processing Systems(2003)	Database Systems(2002)	Science & Analysis (2001)	Instrument Modeling(2003)	VO Resources(2003)	Software Development & Testing(2002)	Time Domain Astronomy(2009)	Commonly Available development environments & tools(2009)	Grid & Grid Virtualization(2010)	Data Archiving & Preservation(2007)	Computing for the Solar System (2012)
		Pipelines & workflows(2005)	Information Systems(2005)	Algorithms(2002)	Great Space Observatories (2004)	Surveys, Archives, & VO (2003)	Architectures for Large Astronomy Software Systems (2006)	Large Surveys (2014)	Astronomy Apps for Handheld Devices (2012)	GPUs in Astronomy and Beyond (2011)	Reusable Archive Technologies(2009)	
		Advances in Imaging and Calibration Algorithms (2006)	Challenges & Solutions for very large data(2006)	Data Analysis Software and Algorithms (2002)	Large Observatory Challenges(2010)	VO in Transistion (2005)	Quality Management in Astronomical Data Management Systems(2006)		User Interfaces (2013)	Cloud Computing and Virtualization (2011)	Enabling Large Catalog Search (2012)	
			File formats for astronomical data (2014)	Image Restoration(2003)	Planning, Scheduling, and Operating Observatories (2011)	VO Science (2005)	Software Engineering in Astronomy(2008)		Emerging Technologies (2013)	Extreme-scale computing - GPUs/Clouds (2012)	Enhancing Science Return with Scientific Archives (2012)	
				Algorithms & Classification(2003)	Large Ground Based Observatories and Telescope Arrays (2012)	VO Standards and Sevices (2005)	"Most dangerous" process, design & implementation errors(2009)		Web Services and APIs (2014)	Big Data Challenges (2014)	Challenges with Modern Archives (2012)	
				Detection Algorithms (2004)	Ground Based Observatories (2004, 2013)	Web Services and the Virtual Observatory(2007)	Long Term Preservation of Analysis Capabilities in Astronomy Software(2011)		(2D & 3D) visualisation for astronomy (2014)		Meta-data management (2014)	
				Imaging Algorithms (2004)	Space based observatories (2005, 2013)	Virtual Observatory(2009,2011)	Software and Languages (2013)					
				Image Processing & Mosaics(2007)								
				Algorithms & Image Processing(2007)								
				Data Mining(2007)								
				Astronomical Algorithms(2008)								
				Scientific Computing(2010)								
				Cross Catalog Matching(2010)								
				Statistical Data Analysis and Knowledge Discovery(2011)								
				Advances in Algorithms (2012)								
				Service-oriented Processing and Analysis (2012)								
				Cosmology Challenges now and in the future (2013)								
				How we code today / Data Analysis (2014)								