

## Software and Cyberinfrastructure for Astronomy V

Sunday - Wednesday 10 - 13 June 2018

### Conference Sessions At A Glance

SHOW | HIDE

1: Project Overviews and Progress Reports  
 2: Software Engineering  
 3: Middleware/Simulation Infrastructure  
 Lightning Talks  
 Monday Plenary Session  
 4: Cyberinfrastructure  
 5: Data Processing and Pipelines  
 Posters-Monday  
 Tuesday Plenary Session  
 6: Telescope Control  
 7: Observatory Software  
 8: Real-time Control/AO  
 Lightning Talks  
 Wednesday Plenary Session  
 9: UI/Web Technologies  
 10: Instrumentation Control  
 Closing Remarks

### Important Dates

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Abstract Due:  
15 November 2017

Author Notification:  
23 February 2018

Manuscript Due Date:  
16 May 2018

### Conference Committee

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#### Conference Chairs

[Juan C. Guzman](#), Commonwealth Scientific and Industrial Research Organisation (Australia)  
 Jorge Ibsen, European Southern Observatory appointed to Atacama Large Millimeter/Submillimeter Array (Chile)

#### Program Committee

[Alan Bridger](#), UK Astronomy Technology Ctr. (United Kingdom)  
[Gianluca Chiozzi](#), European Southern Observatory (Germany)  
 Tom Donaldson, Space Telescope Science Institute (United States)

#### Program Committee continued...

[Frossie Economou](#), Large Synoptic Survey Telescope (United States)  
[Kim Gillies](#), Thirty Meter Telescope Observatory Corp. (United States)  
[José M. Filgueira](#), GMTO Corp. (United States)  
[Shui Hung Kwok](#), W. M. Keck Observatory (United States)  
[David L. Terrett](#), RAL Space (United Kingdom)

#### SUNDAY 10 JUNE

[Show All Abstracts](#)

### Session 1: Project Overviews and Progress Reports

Sunday 10 June 2018  
 9:00 AM - 11:30 AM  
 Location: CC Level 1, Room 3


Session Chairs: [Juan Carlos Guzman](#), Commonwealth Scientific and Industrial Research Organisation (Australia) ; [Gianluca Chiozzi](#), European Southern Observatory (Germany)

#### Project PANOPTES: the good, the bad, and the ugly challenges of running a successful Pro-Am astronomy project (Conference Presentation)

Paper 10707-1

Time: 9:00 AM - 9:20 AM

Author(s): Wilfred T. Gee, Macquarie Univ. (Australia); Christian Schwab, Macquarie Univ. (Australia), Australian Astronomical Observatory (Australia); David Coutts, Macquarie Univ. (Australia); Olivier Guyon, National Astronomical Observatory of Japan (United States); Josh Walawender, W. M. Keck Observatory (United States)

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#### SKA telescope manager: a status update

Paper 10707-2

Time: 9:20 AM - 9:40 AM

Author(s): Alan Bridger, UK Astronomy Technology Ctr. (United Kingdom); Yashwant Gupta, National Ctr. for Radio Astrophysics (India); Subhrojyoti R. Chaudhuri, Tata Consultancy Services, Ltd. (India); Matteo Di Carlo, INAF - Osservatorio Astronomico di Teramo (Italy); Gerhard Le Roux, SKA South Africa (South Africa); Swaminathan Natarajan, Tata Consultancy Services, Ltd. (India); Riccardo Smareglia, INAF - Osservatorio Astronomico di Trieste (Italy); Mangesh Patil, Tata Consultancy Services, Ltd. (India); Domingos Barbosa, Instituto de Telecomunicações (Portugal); Lize van den Heever, SKA South Africa

(South Africa); Mauro Dolci, INAF - Osservatorio Astronomico di Teramo (Italy); Valentina Alberti, INAF - Osservatorio Astronomico di Trieste (Italy); Ray Brederode, SKA South Africa (South Africa); João Paulo Barraca, Instituto de Telecomunicações (Portugal); Dzianis Bartashevich, Instituto de Telecomunicações (Portugal); José Bergano, Instituto de Telecomunicações (Portugal); Giorgio Brajnik, Interaction Design Solutions Srl (Italy); Matteo Canzari, INAF - Osservatorio Astronomico di Teramo (Italy); Aditya Dange, Tata Consultancy Services, Ltd. (India); Juan Carlos Guzman, Commonwealth Scientific and Industrial Research Organisation (Australia); Giovanna Jerse, INAF - Osservatorio Astronomico di Trieste (Italy); Amruta Khanvilkar, Tata Consultancy Services, Ltd. (India); Pamela Klaassen, UK Astronomy Technology Ctr. (United Kingdom); Cristina Knapic, INAF - Osservatorio Astronomico di Trieste (Italy); Jitendra Kodikar, National Ctr. for Radio Astrophysics (India); Vikas Kumthekar, Tata Consultancy Services, Ltd. (India); Dalmiro Maia, Univ. do Porto (Portugal); Vivek Mohile, Persistent Systems Ltd. (India); J. Bruno Morgado, Instituto de Telecomunicações (Portugal); Snehal Nakave, Tata Consultancy Services, Ltd. (India); Mark Nicol, UK Astronomy Technology Ctr. (United Kingdom); Alan O'Brien, UK ATC (United Kingdom); Niruj M. Ramanujam, National Ctr. for Radio Astrophysics (India); Jyotin Ranpura, Tata Consultancy Services, Ltd. (India); Steven Reed, SciSys UK Ltd. (United Kingdom); Vinod Sathe, Tata Consultancy Services, Ltd. (India); Nuno Silva, Critical Software S.A. (Portugal); Paul Swart, SKA South Africa (South Africa); Franco Tinarelli, INAF - Istituto di Radioastronomia (Italy); Vatsal Trivedi, Lochan Babani, Tata Consultancy Services, Ltd. (India); Snehal Valame, Persistent Systems Ltd. (India); Sonja Vrcic, National Research Council Canada (Canada); Stewart Williams, UK Astronomy Technology Ctr. (United Kingdom); Yogesh Wadadekar, National Ctr. for Radio Astrophysics (India)

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### **Gemini's first major upgrade of telescope control systems using operating system independent interfaces (Canceled)**

Paper 10707-3

Time: 9:40 AM - 10:00 AM

Author(s):

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### **Coffee Break 10:00 AM - 10:30 AM**

### **Status of the observatory control system for the GMT**

Paper 10707-4

Time: 10:30 AM - 10:50 AM

Author(s): Marti Pi, Josema Filgueira, Marianne Cox, Chien Peng, Jose Soto, Alfonso Roman, Jordi Molgó, Hector Swett, Divya Thanasekaran, GMTO Corp. (United States)


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### **GHOST instrument control software: a progress report**

Paper 10707-5

Time: 10:50 AM - 11:10 AM

Author(s): Jon G. Nielsen, The Australian National Univ. (Australia); Ian A. Price, The Australian National University (Australia); Peter J. Young, Michael J. Ireland, The Australian National Univ. (Australia)


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### **Sustaining the Montage image mosaic engine since 2002**

Paper 10707-7

Time: 11:10 AM - 11:30 AM

Author(s): Graham B. Berriman, John C. Good, Caltech (United States)

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### **Lunch Break 11:30 AM - 1:50 PM**

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## **Session 2: Software Engineering**

Sunday 10 June 2018

1:50 PM - 2:30 PM

Location: CC Level 1, Room 3

Session Chairs: [Alan Bridger](#), UK Astronomy Technology Ctr. (United Kingdom) ; [Kim Gillies](#), Thirty Meter Telescope (United States)

### **Pushing Agile (and people) to the extreme: case study on developing (scripts) under pressure (Canceled)**

Paper 10707-9

Time: 1:50 PM - 2:10 PM


Author(s):

### **LSST data management software development practices and tools**

Paper 10707-10

Time: 2:10 PM - 2:30 PM

Author(s): Timothy Jenness, Frossie Economou, LSST (United States); Krzysztof Findeisen, Univ. of Washington (United States); Fabio Hernandez, Institut National de Physique Nucléaire et de Physique des Particules (France); Joshua C. Hobbitt, K. Simon Krughoff, LSST (United States); K-T Lim, SLAC National Accelerator Lab. (United States); Robert H. Lupton, Princeton Univ. (United States); Fritz Mueller, SLAC National Accelerator Lab. (United States); William O'Mullane, LSST (United States); Russell Owen, Univ. of Washington (United States); Stephen R. Pietrowicz, NCSA, University of Illinois at Urbana-Champaign (United States); Pim Schellart, Princeton University (United States); Jonathan Sick, LSST (United States); John Swinbank, Univ. of Washington (United States); Adam Thornton, LSST (United States); James Bosch, Princeton Univ. (United States); Jeffrey Kantor, LSST (United States); John K. Parejko, Univ. of Washington (United States); Paul Price, Princeton Univ. (United States); Brian van Klaveren, SLAC National Accelerator Lab. (United States)

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## Session 3: Middleware/Simulation Infrastructure

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Sunday 10 June 2018  
2:30 PM - 4:40 PM  
Location: CC Level 1, Room 3

Session Chairs: [Frossie Economou](#), Large Synoptic Survey Telescope (United States) ; Jorge Ibsen, Joint ALMA Observatory (Chile)


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### Implementing the Magdalena Ridge Observatory interferometer supervisory system

Paper 10707-11

Time: 2:30 PM - 2:50 PM

Author(s): Allen Farris, Robert Blasi, Robert Kelly, Louis Jencka, New Mexico Institute of Mining and Technology (United States); John Young, Eugene Seneta, Univ. of Cambridge (United Kingdom)

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### LSST telescope and site software: from simulation to integration

**(Canceled)**

Paper 10707-12

Time: 2:50 PM - 3:10 PM

Author(s):

### Coffee Break 3:10 PM - 3:40 PM


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### Introducing hardware in the loop and model based simulation concepts in the ALMA observatory for software testing

Paper 10707-13

Time: 3:40 PM - 4:00 PM

Author(s): Tzu-Chiang Shen, Ruben Soto, ALMA Observatory (Chile); Alejandro Saez, ALMA (Chile); Jorge Avarias, Norman Saez, Tomas Staig, Jorge Sepulveda, Jorge Castillo, Rodrigo Amestica, Jorge Ibsen, Stuart Corder, ALMA Observatory (Chile)


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### Software testing for the CTA observation execution system

Paper 10707-14

Time: 4:00 PM - 4:20 PM

Author(s): Thomas Murach, Deutsches Elektronen-Synchrotron (Germany); Anze Zagar, Urban Leben, Cosylab d.d. (Slovenia); Igor Oya, Matthias Fűßling, Deutsches Elektronen-Synchrotron (Germany); Dejan Dezman, Cosylab d.d. (Slovenia); Vito Conforti, INAF - IASF Bologna (Italy); Fabian Krack, Deutsches Elektronen-Synchrotron (Germany); Etienne Lyard, Univ. de Genève (Switzerland); David Melkumyan, Deutsches Elektronen-Synchrotron (Germany); Klemens Mosshammer, DESY (Germany); Ifach Sadeh, Deutsches Elektronen-Synchrotron (Germany); Torsten Schmidt, High Tech Consulting (Germany); Ullrich Schwanke, Humboldt-Univ. zu Berlin (Germany); Joseph Schwarz, INAF - Osservatorio Astronomico di Brera (Italy); Stephan Wiesand, Deutsches Elektronen-Synchrotron (Germany)


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### Selecting a simple, natively implemented middleware solution for the SALT control system

Paper 10707-15

Time: 4:20 PM - 4:40 PM

Author(s): Deneys S. Maartens, Janus D. Brink, South African Astronomical Observatory (South Africa), SALT Foundation (South Africa)

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## Lightning Talks

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Sunday 10 June 2018  
4:40 PM - 5:00 PM  
Location: CC Level 1, Room 3

Session Chairs: [Alan Bridger](#), UK Astronomy Technology Ctr. (United Kingdom) ; [Kim Gillies](#), Thirty Meter Telescope (United States)

Lightning talks are 5-minute-long presentations to allow conference participants to have the opportunity to highlight your posters, present a new idea, or to report progress on something interesting you have been working and feel compelled to share. The main objective of this activity is to promote exchange of ideas and productive conversations during the conference. Lightning talks have been scheduled at the end of the day on Sunday, Monday, and Tuesday.

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- Presenter
- Session theme that would be applicable to the subject you want to present (for referential information only)

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**MONDAY 11 JUNE**

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## Monday Plenary Session

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Monday 11 June 2018  
8:50 AM - 10:00 AM  
Location: CC Level 1, Ballroom A

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**Coffee Break 10:00 AM - 10:30 AM**

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## Session 4: Cyberinfrastructure

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Monday 11 June 2018  
10:30 AM - 12:00 PM  
Location: CC Level 1, Room 3

Session Chair: [Shui Hung Kwok](#), W. M. Keck Observatory (United States)


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**We're all programmers now: the JupyterLab notebook environment of the LSST science platform** (*Invited Paper*)

Paper 10707-16

Time: 10:30 AM - 11:00 AM

Author(s): Frossie Economou, Adam Thornton, Simon Krughoff, Joshua C. Hobbitt, Angelo Fausti, LSST (United States); Gregory P. Dubois-Felsmann, IPAC (United States); Jonathan Sick, Timothy Jenness, LSST (United States)


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**Application of cloud computing in astrophysics: the case of Amazon Web Services**

Paper 10707-17

Time: 11:00 AM - 11:20 AM

Author(s): Marco Landoni, Matteo Genoni, Marco Riva, Andrea Bianco, INAF - Osservatorio Astronomico di Brera (Italy); Antonio Corina, Amazon.com, Inc. (United States)


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**MeerKAT data distribution network**

Paper 10707-19

Time: 11:20 AM - 11:40 AM

Author(s): Martin J. Slabber, Jason Manley, SKA South Africa (South Africa); Joyce Mwangama, Neco Ventura, University of Cape Town (South Africa)


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**Very large scale high performance computing and instrument management for high availability systems through the use of virtualization at the Square Kilometre Array (SKA) telescope**

Paper 10707-20

Time: 11:40 AM - 12:00 PM

Author(s): J. Bruno Morgado, Dalmiro Maia, Observatório Astronómico " Prof. Manuel de Barros" (Portugal); Domingos Barbosa, João Paulo Barraca, José Bergano, Dzianis Bartashevich, Instituto de Telecomunicações (Portugal); Matteo Di Carlo, INAF - Osservatorio Astronomico d'Abruzzo (Italy); Matteo Canzari, INAF - Osservatorio Astronomico d'Abruzzo (Italy); Mauro Dolci, INAF - Osservatorio Astronomico d'Abruzzo (Italy); Riccardo Smareglia, INAF - Osservatorio Astronomico d'Abruzzo (Italy)

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**Lunch Break 12:00 PM - 1:30 PM**

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## Session 5: Data Processing and Pipelines

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Monday 11 June 2018  
1:30 PM - 5:20 PM  
Location: CC Level 1, Room 3

Session Chairs: Tom Donaldson, Space Telescope Science Institute (United States) ; [David L. Terrett](#), STFC Rutherford Appleton Lab. (United Kingdom)


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**Challenges of real-time processing in HPC environments: the ASKAP experience**

Paper 10707-21

Time: 1:30 PM - 1:50 PM

Author(s): Eric Bastholm, Commonwealth Scientific and Industrial Research Organization (Australia); Juan Carlos Guzman, Commonwealth Scientific and Industrial Research Organisation (Australia); Maxim Voronkov, Paulus Lahur, Commonwealth Scientific and Industrial Research Organization (Australia)


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**Real-time processing of the imaging data from the network of Las Cumbres Observatory Telescopes using BANZAI**

Paper 10707-22

Time: 1:50 PM - 2:10 PM

Author(s): Curtis McCully, Nikolaus Volgenau, Daniel R. Harbeck, Tim Lister, Eric Saunders, Monica L. Turner, Robert J. Siiverd, Mark Bowman, Las Cumbres Observatory Global Telescope Network (United States)


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**The quick RTE inversion on FPGA for DKIST**

Paper 10707-23

Time: 2:10 PM - 2:30 PM

Author(s): Juan Pedro Cobos Carrascosa, José Luis Ramos Mas, Beatriz Aparicio del Moral, David Hernández Expósito, Antonio Sánchez Gómez, María Balaguer Jiménez, Antonio Carlos López Jiménez, David Orozco Suárez, José Carlos del Toro Iniesta, Instituto de Astrofísica de Andalucía - CSIC (Spain)

[Add To My Schedule](#) **Tensor representation, constrain (storage) and processing of multidimensional astronomical data over intense computing support**

Paper 10707-24

Time: 2:30 PM - 2:50 PM


Author(s): Humberto Fariás, Camilo Núñez, Mauricio Solar, Univ. Técnica Federico Santa María (Chile)

[Add To My Schedule](#) **Using clustering for disperse objects fields segmentation in MIRADAS instrument**

Paper 10707-25

Time: 2:50 PM - 3:10 PM

Author(s): Josep Sabater, Univ. de Barcelona (Spain), Institut d'Estudis Espacials de Catalunya (Spain); Santiago Torres, Univ. de La Laguna (Spain); Francisco Garzón, Instituto de Astrofísica de Canarias (Spain); José María Gómez, Univ. de Barcelona (Spain), Institut d'Estudis Espacials de Catalunya (Spain)

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**Coffee Break 3:10 PM - 3:40 PM**


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**Autonomous on-board data processing and instrument calibration software for the SO/PHI**

Paper 10707-26

Time: 3:40 PM - 4:00 PM


Author(s): Kinga Albert, Johann Hirzberger, Dennis Busse, Max-Planck-Institut für Sonnensystemforschung (Germany); Tobias Lange, Technische Univ. Braunschweig (Germany); Martin Kolleck, Max-Planck-Institut für Sonnensystemforschung (Germany); Björn Fiethe, Technische Univ. Braunschweig (Germany); David Orozco Suárez, Instituto de Astrofísica de Andalucía - CSIC (Spain); Joachim Woch, Jesper Schou, Max-Planck-Institut für Sonnensystemforschung (Germany); Julian Blanco Rodríguez, Univ. de València (Spain); Achim Gandorfer, Max-Planck-Institut für Sonnensystemforschung (Germany); Yejun Guan, Institute of Computer and Network Engineering at the TU Braunschweig (Germany); Juan Pedro Cobos Carrascosa, David Hernández Expósito, Instituto de Astrofísica de Andalucía - CSIC (Spain); José Carlos del Toro Iniesta, Instituto de Astrofísica de Andalucía (Spain); Sami Khan Solanki, Max-Planck-Institut für Sonnensystemforschung (Germany); Harald Michalik, Technische Univ. Braunschweig (Germany)

[Add To My Schedule](#) **Matrix: the Green Bank Observatory dataflow application framework**

Paper 10707-27

Time: 4:00 PM - 4:20 PM

Author(s): Joseph J. Brandt, Ramon Creager, Mark Whitehead, Green Bank Observatory (United States)

[Add To My Schedule](#) **The CTA Data processing and preservation system****(Canceled)**

Paper 10707-28

Time: 4:20 PM - 4:40 PM


Author(s):

**Upgrading the processing pipeline for the National Park Service Night Skies Program**

Paper 10707-122

Time: 4:20 PM - 4:40 PM


Author(s): Li-Wei Hung, U.S. National Park Service (United States)

[Add To My Schedule](#) **ASTRI data reduction software in the framework of the Cherenkov Telescope Array**

Paper 10707-29

Time: 4:40 PM - 5:00 PM

Author(s): Saverio Lombardi, ASI Science Data Ctr. (Italy), INAF - Osservatorio Astronomico di Roma (Italy); Lucio Angelo Antonelli, Ciro Bigongiari, INAF - Osservatorio Astronomico di Roma (Italy); Martina Cardillo, INAF - Istituto di Astrofisica e Planetologia Spaziali (Italy); Fabrizio Lucarelli, Matteo Perri, INAF - Osservatorio Astronomico di Roma (Italy), ASI Space Science Data Ctr. (Italy); Antonio Stamerra, INAF - Osservatorio Astronomico di Roma (Italy); Francesco Visconti, INAF - Osservatorio Astronomico di Roma (Italy), ASI Space Science Data Ctr. (Italy)

[Add To My Schedule](#) **Data processor prototype of the SKA China Regional Center****(Canceled)**

Paper 10707-30

Time: 5:00 PM - 5:20 PM

Author(s):

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**Lightning Talks**

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Monday 11 June 2018

5:00 PM - 5:20 PM

Location: CC Level 1, Room 3

Session Chairs: Jorge Ibsen, Joint ALMA Observatory (Chile) ; [Gianluca Chiozzi](#), European Southern Observatory (Germany)

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## Session PSMon: Posters-Monday

Monday 11 June 2018  
6:00 PM - 8:00 PM  
Location: CC Level 1, Exhibit Hall 2

Posters in this session may be displayed beginning at 10.00 on the designated day and will be available for extended viewing. The interactive poster session with authors in attendance will be Monday evening from 5:30 to 7:00 PM (followed by the Welcome Reception). Authors should remove their posters at the end of the poster session. Posters left displayed will be considered unwanted and will be discarded.


Poster presentation guidelines are available [online](#).

### TM Services: an architecture for monitoring and controlling the Square Kilometre Array (SKA) Telescope Manager (TM)

Paper 10707-59

Time: 6:00 PM - 8:00 PM

Author(s): Matteo Di Carlo, Matteo Canzari, Mauro Dolci, INAF - Osservatorio Astronomico di Teramo (Italy); Riccardo Smareglia, INAF - Osservatorio Astronomico di Trieste (Italy); Domingos Barbosa, J. Bruno Morgado, João Paulo Barraca, Instituto de Telecomunicações (Portugal)


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### Challenges and solutions for the SKA TM Architectural Team (TMAT)

Paper 10707-60

Time: 6:00 PM - 8:00 PM

Author(s): Matteo Di Carlo, INAF - Osservatorio Astronomico di Teramo (Italy); Alan Bridger, UK Astronomy Technology Ctr. (United Kingdom); Gerhard Le Roux, SKA South Africa (South Africa); Subhojyoti R. Chaudhuri, Tata Consultancy Services, Ltd. (India)


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### Motor control for 0.1-meter diameter crystal retarders on the Daniel K. Inouye Solar Telescope

Paper 10707-61

Time: 6:00 PM - 8:00 PM

Author(s): Austin Kootz, National Solar Observatory (United States)


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### Prototyping the central control system for the Cherenkov Telescope Array

Paper 10707-63

Time: 6:00 PM - 8:00 PM

Author(s): David Melkumyan, Igor Oya, Deutsches Elektronen-Synchrotron (Germany); Jaka Bobnar, Sunil Sah, Cosylab d.d. (Slovenia); Rungrit Anutarawiramkul, National Astronomical Research Institute of Thailand (Thailand); Matthias Fülling, Ifach Sadeh, Deutsches Elektronen-Synchrotron (Germany); Matej Šekoranja, Cosylab d.d. (Slovenia); Torsten Schmidt, Deutsches Elektronen-Synchrotron (Germany); Ullrich Schwanke, Humboldt-Univ. zu Berlin (Germany); Joseph Schwarz, INAF - Osservatorio Astronomico di Brera (Italy); Gerrit Spengler, Humboldt-Univ. zu Berlin (Germany); Peter Wegner, Deutsches Elektronen-Synchrotron (Germany)


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### Monitor and control for the SKA1 CSP Mid.CBF utilizing the Stratix-10 FPGA equipped with HPS

Paper 10707-64

Time: 6:00 PM - 8:00 PM

Author(s): David A. Del Rizzo, Mark A. B. Garstin, National Research Council Canada (Canada)

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### ELT high resolution spectrograph: phase-A software architecture study

Paper 10707-65

Time: 6:00 PM - 8:00 PM

Author(s): Paolo Di Marcontonio, Roberto Cirami, Guido Cupani, INAF - Osservatorio Astronomico di Trieste (Italy); Igor Di Varano, Leibniz-Institut für Astrophysik Potsdam (Germany); Holger Drass, Pontificia Univ. Católica de Chile (Brazil); Pedro Figueira, Univ. do Porto (Portugal); Marco Antonio Furlan de Souza, Instituto Mauá de Tecnologia (Brazil); Matteo Genoni, INAF - Osservatorio Astronomico di Brera (Italy); Oscar A. Gonzalez, UK Astronomy Technology Centre (United Kingdom); Marco Landoni, INAF - Osservatorio Astronomico di Brera (Italy); Gianluca Li Causi, INAF - Osservatorio Astronomico di Roma (Italy); Thomas Marquart, Uppsala Univ. (Sweden); Elena Mason, INAF - Osservatorio Astronomico di Trieste (Italy); Manuel Monteiro, Univ. do Porto (Portugal); Vanderlei Parro, Sergio Ribeiro Augusto, Instituto Mauá de Tecnologia (Brazil); Sylvain Rousseau, Lab. J.L. Lagrange (France); Nicoletta Sanna,

INAF - Osservatorio Astrofisico di Arcetri (Italy); Tzu-Chiang Shen, Pontificia Univ. Católica de Chile (Chile); Danuta Sosnowska, Observatoire de Genève (Switzerland); Sérgio Sousa, Univ. do Porto (Portugal); Marco Xompero, INAF - Osservatorio Astrofisico di Arcetri (Italy); Isabelle Boisse, Lab. d'Astrophysique de Marseille (France), Ctr. National de la Recherche Scientifique (France); Alessandro Marconi, Univ. degli Studi di Firenze (Italy)


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#### DB white dwarf template construction for LAMOST 1D pipeline

Paper 10707-66

Time: 6:00 PM - 8:00 PM

Author(s): Xiao Kong, Ali Luo, National Astronomical Observatories, Chinese Academy of Sciences (China)


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#### Application of a component template for designing and implementing LSST telescope and site software components

Paper 10707-67

Time: 6:00 PM - 8:00 PM

Author(s): Paul J. Lotz, LSST (United States); Andrés Anania, LSST (Chile); Harini Sundararaman, Christopher Contaxis, LSST (United States)


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#### A guiding system of astronomical imaging system for a 1.2-meter-aperture telescope

Paper 10707-68

Time: 6:00 PM - 8:00 PM

Author(s): Ya-qi Chen, Hong-fei Zhang, Ming-hao Jia, Jin-ting Chen, Guang-yu Zhang, Yi-ling Xu, Yi Feng, Zhen-feng Sheng, Chen-wei Yang, Liang Chang, Jian Wang, Univ. of Science and Technology of China (China)


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#### Low-level control software for the WEAVE spectrograph

Paper 10707-69

Time: 6:00 PM - 8:00 PM

Author(s): Bernardo Salasnich, INAF - Osservatorio Astronomico di Padova (Italy); Carlos Martín Perez, Isaac Newton Group of Telescopes (Spain); José Miguel Delgado Hernández, Instituto de Astrofísica de Canarias (Spain); Sergio Picó, Diego Cano Infantes, Isaac Newton Group of Telescopes (Spain); Remko Stuik, Leiden Observatory (Netherlands); Andrea Baruffolo, INAF - Osservatorio Astronomico di Padova (Italy); Gavin Dalton, STFC Rutherford Appleton Lab. (United Kingdom); Scott Trager, Kapteyn Astronomical Institute (Netherlands); J. Alfonso L. Aguerri, Instituto de Astrofísica de Canarias (Spain); Piercarlo Bonifacio, Observatoire de Paris à Meudon (France), Ctr. National de la Recherche Scientifique (France); Antonella Vallenari, INAF - Osservatorio Astronomico di Padova (Italy); Esperanza Carrasco, Instituto Nacional de Astrofísica, Óptica y Electrónica (Mexico); Don Carlos Abrams, Isaac Newton Group of Telescopes (Spain); Kevin Middleton, STFC Rutherford Appleton Lab. (United Kingdom)


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#### A comparison of SOFA and NOVAS astrometric software libraries

Paper 10707-71

Time: 6:00 PM - 8:00 PM

Author(s): Andrzej S. Piascik, Christopher M. Copperwheat, Cheuk Y. Lam, Liverpool John Moores Univ. (United Kingdom); Apichat Leckngam, Apirat Prasit, Pakawat Prasit, National Astronomical Institute of Thailand (Thailand); Robert J. Smith, Iain A. Steele, Liverpool John Moores Univ. (United Kingdom)


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#### Middleware abstraction layer in E-ELT core integration infrastructure

Paper 10707-72

Time: 6:00 PM - 8:00 PM

Author(s): Matej Šekoranja, Damjan Kumar, Gregor Cuk, Cosylab d.d. (Slovenia); Alexander Söderqvist, Cosylab Sweden AB (Sweden); Nick Kornweibel, Marcus Schilling, European Southern Observatory (Germany); Tadej Pukl, Cosylab (Slovenia)


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#### Laying the groundwork for the development of the data archive of the new robotic telescope

Paper 10707-73

Time: 6:00 PM - 8:00 PM

Author(s): Marco Lam, Astrophysics Research Institute (United Kingdom); Bovompratch Vijarnwannaluk, Pathompong Butpan, National Astronomical Research Institute of Thailand (Thailand); Christopher M. Copperwheat, Andrzej S. Piascik, Astrophysics Research Institute (United Kingdom); Utane Sawangwit, National Astronomical Research Institute of Thailand (Thailand); Robert J. Smith, Iain A. Steele, Astrophysics Research Institute (United Kingdom)


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#### Italian center for astronomical archives publishing solution: modular and distributed

Paper 10707-74

Time: 6:00 PM - 8:00 PM

Author(s): Marco Molinaro, Nicola Fulvio Calabria, Robert Butora, Sonia Zorba, Riccardo Smareglia, INAF - Osservatorio Astronomico di Trieste (Italy)


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#### Astrocook: a thousand recipes to cook a spectrum

Paper 10707-76

Time: 6:00 PM - 8:00 PM

Author(s): Guido Cupani, Giorgio Calderone, Stefano Cristiani, Paolo Di Marcantonio, Valentina D'Odorico, Giuliano Taffoni, INAF - Osservatorio Astronomico di Trieste (Italy)

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#### The DAQ system support to the AIV activities of the ASTRI camera proposed for the Cherenkov Telescope Array

Paper 10707-77

Time: 6:00 PM - 8:00 PM

Author(s): Vito Conforti, Fulvio Gianotti, Massimo Trifoglio, Andrea Bulgarelli, Valentina Fioretti, INAF - IASF Bologna (Italy); Osvaldo Catalano, Milvia Capalbi, Pierluca Sangiorgi, INAF - IASF Palermo (Italy)

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#### Designing and managing software interfaces for the ELT

Paper 10707-78

Time: 6:00 PM - 8:00 PM

Author(s): Gianluca Chiozzi, Luigi Andolfato, Mario J. Kiekebusch, Nick Korweibel, Marcus Schilling, Michele Zamparelli, European Southern Observatory (Germany)


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#### An electronic traveler system for LSST camera assembly and testing

Paper 10707-79

Time: 6:00 PM - 8:00 PM

Author(s): Joanne Bogart, A. W. Borgland, James Chiang, Richard Dubois, Warren Focke, Tom Glanzman, Tony Johnson, Heather Kelly, SLAC National Accelerator Lab. (United States)


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#### Upgrading the processing pipeline for the National Park Service Night Skies program

Paper 10707-80

Time: 6:00 PM - 8:00 PM

Author(s): Li-Wei Hung, Davyd Betchkal, Sharolyn Anderson, Damon Joyce, U.S. National Park Service (United States)


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#### Software development of fiber positioning sequencer for prime focus spectrograph of Subaru telescope

Paper 10707-81

Time: 6:00 PM - 8:00 PM

Author(s): Chi-Hung Yan, Chih-Yi Wen, Jennifer Karr, Shiang-Yu Wang, Institute of Astronomy and Astrophysics - Academia Sinica (Taiwan); Johannes Gross, Hrand Aghazarian, Jet Propulsion Lab. (United States); Naoyuki Tamura, Atsushi Shimono, Kavi Institute for the Physics and Mathematics of the Universe (Japan); Craig P. Loomis, Robert H. Lupton, Princeton Univ. (United States)


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#### A controller designed for the motion system of a space solar filter

Paper 10707-82

Time: 6:00 PM - 8:00 PM

Author(s): Ming Yan, Jianing Wang, Nanjing Institute of Astronomical Optics & Technology (China), National Astronomical Observatories, Chinese Academy of Sciences (China)


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#### LAMOST staller parameters pipeline for medium resolution spectra

Paper 10707-84

Time: 6:00 PM - 8:00 PM

Author(s): Ali Luo, National Astronomical Observatories, Chinese Academy of Sciences (China); Jia-Jun Chen, Wen Hou, Fang Zuo, Bing Du, Yi-Han Song, Xiao Kong, Rui Wang, Yan Lu, Yong-Heng Zhao, National Astronomical Observatories (China)


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#### A complete automatization of an educational observatory at INAF-OATs

Paper 10707-85

Time: 6:00 PM - 8:00 PM

Author(s): Veronica Baldini, Giorgio Calderone, Francesco Cepparo, Roberto Cirami, Igor Coretti, Paolo Di Marcantonio, Giulia lafrate, Elisa Londero, Sonia Zorba, INAF - Osservatorio Astronomico di Trieste (Italy)


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#### HDB@ELK: another noSql customization for the HDB++ archiving system

Paper 10707-86

Time: 6:00 PM - 8:00 PM

Author(s): Matteo Di Carlo, Matteo Canzari, Mauro Dolci, INAF - Osservatorio Astronomico d'Abruzzo (Italy); Riccardo Smareglia, INAF - Osservatorio Astronomico di Trieste (Italy)


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#### METIS AO RTC concept

Paper 10707-87

Time: 6:00 PM - 8:00 PM

Author(s): Martin Kulas, Thomas Bertram, Florian Briegel, Max-Planck-Institut für Astronomie (Germany)


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#### Image compression on reconfigurable FPGA for the SO/PHI space instrument

Paper 10707-88

Time: 6:00 PM - 8:00 PM

Author(s): David Hernández Expósito, Juan Pedro Cobos Carrascosa, José Luis Ramos Mas, Instituto de Astrofísica de Andalucía - CSIC (Spain); Manuel Rodríguez-Valido, Univ. de La Laguna (Spain); David Orozco Suárez, Instituto de Astrofísica de Andalucía - CSIC (Spain); Johann Hirzberger, Joachim Woch, Sami Khan Solanki, Max-Planck-Institut für Sonnensystemforschung (Germany); José Carlos del Toro Iniesta, Instituto de Astrofísica de Andalucía - CSIC (Spain)

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**ESPRESSO instrument control software and electronics: commissioning in Paranal**

Paper 10707-89

Time: 6:00 PM - 8:00 PM


Author(s): Giorgio Calderone, Veronica Baldini, Roberto Cirami, Igor Coretti, Stefano Cristiani, Paolo Di Marcantonio, INAF - Osservatorio Astronomico di Trieste (Italy); Denis Mégevand, Observatoire de Genève (Switzerland)

[Add To My Schedule](#) **SOXS control electronics design**

Paper 10707-90

Time: 6:00 PM - 8:00 PM


Author(s): Giulio Capasso, Mirko Colapietro, Sergio D'Orsi, Pietro Schipani, INAF - Osservatorio Astronomico di Capodimonte (Italy); Matteo Aliverti, INAF - Osservatorio Astronomico di Brera (Italy); Hanindy Kuncarayakti, Univ. of Turku (Finland); Salvatore Scuderi, INAF - Osservatorio Astrofisico di Catania (Italy); Igor Coretti, INAF - Osservatorio Astronomico di Trieste (Italy); Sergio Campana, INAF - Osservatorio Astronomico di Brera (Italy); Riccardo Claudi, Andrea Baruffolo, INAF - Osservatorio Astronomico di Padova (Italy); Sagi Ben-Ami, Harvard-Smithsonian Ctr. for Astrophysics (United States); Federico Biondi, INAF - Osservatorio Astronomico di Padova (Italy); Anna Brucalassi, European Southern Observatory (Germany); Rosario Cosentino, Telescopio Nazionale Galileo (Spain); Francesco D'Alessio, INAF - Osservatorio Astronomico di Roma (Italy); Paolo D'Avanzo, INAF - Osservatorio Astronomico di Brera (Italy); Ofir Hershko, Weizmann Institute of Science (Israel); Matteo Munari, INAF - Osservatorio Astrofisico di Catania (Italy); Adam Rubin, Weizmann Institute of Science (Israel); Fabrizio Vitali, INAF - Osservatorio Astronomico di Roma (Italy); Jani Achrén, Incident Angle Oy (Finland); José Antonio Araiza-Durán, Univ. Andrés Bello (Chile); Iair Arcavi, Tel Aviv Univ. (Israel); Andrea Bianco, INAF - Osservatorio Astronomico di Brera (Italy); Enrico Cappellaro, INAF - Osservatorio Astronomico di Padova (Italy); Massimo Della Valle, INAF - Osservatorio Astronomico di Capodimonte (Italy); Oz Diner, Weizmann Institute of Science (Israel); Daniela Fantinel, INAF - Osservatorio Astronomico di Padova (Italy); Johan Fynbo, Niels Bohr Institute (Denmark); Avishay Gal-Yam, Weizmann Institute of Science (Israel); Matteo Genoni, INAF - Osservatorio Astronomico di Brera (Italy); Mika Hirvonen, Aboa Space Research Oy (Finland); Jari Kotilainen, Tarun Kumar, Univ. of Turku (Finland); Marco Landoni, INAF - Osservatorio Astronomico di Brera (Italy); Jussi Lehti, Aboa Space Research Oy (Finland); Gianluca Li Causi, INAF - Osservatorio Astronomico di Roma (Italy); Luca Marafatto, INAF - Osservatorio Astronomico di Padova (Italy); Seppo Mattila, Univ. of Turku (Finland); Giorgio Pariani, INAF - Osservatorio Astronomico di Brera (Italy); Giuliano Pignata, Univ. Andrés Bello (Chile); Michael Rappaport, Weizmann Institute of Science (Israel); Davide Ricci, INAF - Osservatorio Astronomico di Padova (Italy); Marco Riva, INAF - Osservatorio Astronomico di Brera (Italy); Bernardo Salasnich, INAF - Osservatorio Astronomico di Padova (Italy); Ricardo Zánmar Sánchez, INAF - Osservatorio Astrofisico di Catania (Italy); Stephen Smartt, Queen's Univ. Belfast (United Kingdom); Massimo Turatto, INAF - Osservatorio Astronomico di Padova (Italy)

[Add To My Schedule](#) **FRIDA: the software architecture to execute and coordinate observing sequences**

Paper 10707-91

Time: 6:00 PM - 8:00 PM

Author(s): Cesar Augusto Guzman Alvarez, Marta Aguiar Gonzalez, José Marco de la Rosa, Heidy Moreno, José Antonio Acosta-Pulido, Jesús Patrón Recio, Almudena Prieto, Instituto de Astrofísica de Canarias (Spain)

[Add To My Schedule](#) **Design and integration of the HARPS3 software system**

Paper 10707-92

Time: 6:00 PM - 8:00 PM


Author(s): John Young, Univ. of Cambridge (United Kingdom); Tim Naylor, Martyn Brake, Univ. of Exeter (United Kingdom); Martin Fisher, Eugene Seneta, Univ. of Cambridge (United Kingdom); Peter Kunst, NOVA Optical Infrared Instrumentation Group (Netherlands); Francesco Pepe, Danuta Sosnowska, Univ. de Genève (Switzerland)

[Add To My Schedule](#) **Path-finding algorithms for the TAIPAN fibre positioner**

Paper 10707-93

Time: 6:00 PM - 8:00 PM


Author(s): Carlos Bacigalupo, Tony Farrell, Michael Goodwin, Nuria Lorente, Australian Astronomical Observatory (Australia)

[Add To My Schedule](#) **A proposed software standard on general-purpose controlling and operating systems for real unattended robotic observatory I: telescope and detector**

Paper 10707-95

Time: 6:00 PM - 8:00 PM

Author(s): Yi Hu, National Astronomical Observatories, Chinese Academy of Sciences (China); Zhaohui Shang, Tianjin Normal Univ. (China), National Astronomical Observatories, Chinese Academy of Sciences (China); Bin Ma, Keliang Hu, National Astronomical Observatories, Chinese Academy of Sciences (China)

[Add To My Schedule](#) **Image processing for a pyramid wavefront sensor equipped guide probe on SALT**

Paper 10707-97

Time: 6:00 PM - 8:00 PM


Author(s): Anthony R. Koeslag, Janus D. Brink, Stephen N. Hulme, Ockert J. Strydom, Deneys S. Maartens, South African Astronomical Observatory (South Africa)

[Add To My Schedule](#) **Development of a centralised change logging system for the Southern African Large Telescope**

Paper 10707-98

Time: 6:00 PM - 8:00 PM


Author(s): Stephen N. Hulme, Deneys S. Maartens, Janus D. Brink, Anthony R. Koeslag, South African Astronomical Observatory (South Africa), Southern African Large Telescope (South Africa)

[Add To My Schedule](#) **The GreenFlash real-time control and simulation solution for AO using many integrated cores**

Paper 10707-99

Time: 6:00 PM - 8:00 PM

Author(s): Alastair G. Basden, Urban Bitenc, Nigel A. Dipper, Deli Geng, Durham Univ. (United Kingdom); Damien Gratadour, Lab. d'Etudes Spatiales et d'Instrumentation en Astrophysique (France); Tim J. Morris, Durham Univ. (United Kingdom); Denis Perret, Arnaud Sevin, Lab. d'Etudes Spatiales et d'Instrumentation en Astrophysique (France); Lazar Staykov, Matthew J. Townson, Edward J. Younger, Durham Univ. (United Kingdom)


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#### **A GUI prototype for SKA1 TM services: compliance with user-centered design approach**

Paper 10707-100

Time: 6:00 PM - 8:00 PM

Author(s): Matteo Canzari, INAF - Osservatorio Astronomico di Teramo (Italy), INAF - Osservatorio Astronomico d'Abruzzo (Italy); Matteo Di Carlo, INAF - Osservatorio Astronomico d'Abruzzo (Italy); Igor Khokhriakov, Helmholtz-Zentrum Geesthacht (Germany); Sergio Poppi, INAF - Osservatorio Astronomico di Cagliari (Italy); Mauro Dolci, INAF - Osservatorio Astronomico d'Abruzzo (Italy); Riccardo Smareglia, INAF - Osservatorio Astronomico di Trieste (Italy)


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#### **A picture is worth a thousand words: on visual aspects of user interfaces of radio-telescopes**

Paper 10707-101

Time: 6:00 PM - 8:00 PM

Author(s): Valentina Alberti, INAF - Osservatorio Astronomico di Trieste (Italy); Giorgio Brajnik, Interaction Design Solutions Srl (Italy)


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#### **ChiVOLabs: cloud service that offer interactive environment for reprocessing astronomical data**

Paper 10707-102

Time: 6:00 PM - 8:00 PM

Author(s): Humberto Farias, Daniel Ortiz, Camilo Núñez, Mauricio Solar, Margarita Bugueno, Univ. Técnica Federico Santa María (Chile)


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#### **Control software for the AO modules of the AOF project**

Paper 10707-103

Time: 6:00 PM - 8:00 PM

Author(s): Mario J. Kiekebusch, Javier Argomedo, European Southern Observatory (Germany); Gérard Zins, Pedro Baksai, Philippe Duhoux, European Southern Observatory (Chile); Christian Soenke, European Southern Observatory (Germany); Giorgio Calderone, INAF - Osservatorio Astronomico di Trieste (Italy); Stefan Stroebele, European Southern Observatory (Germany); Josefina Urrutia, European Southern Observatory (Chile); Mauro Comin, Paolo La Penna, European Southern Observatory (Germany); Johann Kolb, European Southern Observatory (Chile); Jérôme Paufigue, Sylvain Oberti, Pierre-Yves Madec, Robin Arsenault, European Southern Observatory (Germany)


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#### **Facility Control Software for 4MOST**

Paper 10707-104

Time: 6:00 PM - 8:00 PM

Author(s): Ingo Stiliz, Florian Rothmaier, Alexander Pramskiy, Roland Winkler, Holger Mandel, Zentrum für Astronomie der Univ. Heidelberg (Germany)

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#### **KLT for astronomy signals modeling**

**(Canceled)**

Paper 10707-105

Time: 6:00 PM - 8:00 PM

Author(s):

#### **FPGA based wave front processing unit made with QuickPlayTM for the Green Flash collaboration**

Paper 10707-106

Time: 6:00 PM - 8:00 PM

Author(s): Lazar Staykov, Alastair G. Basden, Urban Bitenc, Nigel A. Dipper, Deli Geng, David Jenkins, Tim J. Morris, James Osborn, Andrew P. Reeves, Matthew J. Townson, Edward J. Younger, Durham Univ. (United Kingdom); Gaetan Dufourcq, Hugues Deneux, Christophe Rouaud, Alain Flaischer, Accelize (France)


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#### **StarNet: a deep learning analysis of infrared stellar spectra**

Paper 10707-107

Time: 6:00 PM - 8:00 PM

Author(s): Collin Kielty, Spencer Bialek, Univ. of Victoria (Canada); Sébastien Fabbro, NRC - Herzberg Astronomy & Astrophysics (Canada); Kim Venn, Teaghan O'Briain, Farbod Jahandar, Stephanie Monty, Univ. of Victoria (Canada)

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#### **Toward sustainable deployment of distributed services on the cloud: dockerized ODI-PPA on Jetstream**

Paper 10707-108

Time: 6:00 PM - 8:00 PM

Author(s): Raymond Perigo, Arvind Gopu, Michael D. Young, Yuanzhi Bao, Indiana Univ. (United States)


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#### **The SKA dish local monitoring and control system user interface**

Paper 10707-110

Time: 6:00 PM - 8:00 PM

Author(s): Alessandro Marassi, INAF - Osservatorio Astronomico di Trieste (Italy); Marco Brambilla, Politecnico di Milano (Italy); Simone Riggi, Adriano Ingallinera, Corrado Trigilio, INAF - Osservatorio Astrofisico di Catania (Italy); Paolo Di Marcantonio, INAF - Osservatorio Astronomico di Trieste (Italy)


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**The ACS/OPC-UA based ICT infrastructure monitoring system of the ASTRI SST-2M prototype proposed for the Cherenkov Telescope Array**

Paper 10707-111

Time: 6:00 PM - 8:00 PM

Author(s): Fulvio Gianotti, INAF - IASF Bologna (Italy); Pietro Bruno, Alessandro Grillo, INAF - Osservatorio Astrofisico di Catania (Italy); Vito Conforti, Massimo Trifoglio, Federico Russo, INAF - Osservatorio di astrofisica e scienza dello spazio di Bologna (Italy); Filippo Fagioli, Univ. degli Studi di Perugia (Italy); Alessandro Tacchini, INAF - Osservatorio di astrofisica e scienza dello spazio di Bologna (Italy); Gino Tosti, INAF - Osservatorio Astronomico di Brera (Italy), Univ. degli Studi di Perugia (Italy); Giuseppe Leto, INAF - Osservatorio Astrofisico di Catania (Italy)

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**The Infrared Imaging Spectrograph (IRIS) for TMT: advancing the data reduction system**

Paper 10707-112

Time: 6:00 PM - 8:00 PM

Author(s): Gregory Walth, Shelley A. Wright, Nils-Erik Rundquist, Univ. of California, San Diego (United States); David Andersen, Edward L. Chapin, NRC - Herzberg Astronomy & Astrophysics (Canada); Eric Chisholm, Thirty Meter Telescope (United States); Tuan Do, Univ. of California, Los Angeles (United States); Jennifer Dunn, NRC - Herzberg Astronomy & Astrophysics (Canada); Brent Ellerbroek, Kim Gillies, Thirty Meter Telescope (United States); Yutaka Hayano, National Astronomical Observatory of Japan (Japan); Chris Johnson, James E. Larkin, Univ. of California, Los Angeles (United States); Takashi Nakamoto, National Astronomical Observatory of Japan (Japan); Reed L. Riddle, Caltech (United States); Luc Simard, NRC - Herzberg Astronomy & Astrophysics (Canada); Roger Smith, Caltech (United States); Ryuji Suzuki, National Astronomical Observatory of Japan (Japan); Ji Man Sohn, Univ. of California, Los Angeles (United States); Robert Weber, Caltech (United States); Jason Weiss, Thirty Meter Telescope (United States); Kai Zhang, Chinese Academy of Sciences (China)

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**Managing NFIRAOS optical enclosure environmental conditions from a high level software system (Canceled)**

Paper 10707-113

Time: 6:00 PM - 8:00 PM

Author(s):

**Subaru telescope computing system: 2018****(Canceled)**

Paper 10707-114

Time: 6:00 PM - 8:00 PM


Author(s):

**Overcoming the Bayer array: detecting exoplanets using consumer digital cameras**

Paper 10707-115

Time: 6:00 PM - 8:00 PM

Author(s): Wilfred T. Gee, Macquarie Univ. (Australia); Olivier Guyon, National Astronomical Observatory of Japan (United States); Christian Schwab, Macquarie Univ. (Australia), Australian Astronomical Observatory (Australia); David Coutts, Macquarie Univ. (Australia); Josh Walawender, W. M. Keck Observatory (United States)


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**Data reduction software for the Gemini high resolution optical spectrograph**

Paper 10707-116

Time: 6:00 PM - 8:00 PM

Author(s): Michael J. Ireland, Marc White, Joao Bento, The Australian National Univ. (Australia); Tony Farrell, Australian Astronomical Observatory (Australia); Kathleen Labrie, Gemini Observatory (United States); Lance Luvaul, Jon G. Nielsen, The Australian National Univ. (Australia); Chris Simpson, Gemini Observatory (United States)


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**Simulation strategies employed in the development and maintenance of the Hobby-Eberly Telescope control system**

Paper 10707-117

Time: 6:00 PM - 8:00 PM

Author(s): Jason Ramsey, Randy Bryant, Niv Drory, Linda Elliott, James Fowler, John Good, Gary J. Hill, The Univ. of Texas at Austin (United States); Martin Landriau, Lawrence Berkeley National Lab. (United States); Hanshin Lee, Ron Leck, Brian Vattiat, The Univ. of Texas at Austin (United States)

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**Ethernet to multi-CAN gateway for VLT MOONS instrument control****(Canceled)**

Paper 10707-120

Time: 6:00 PM - 8:00 PM


Author(s):

**Communication to remote observatories is a science enabler**

Paper 10707-121

Time: 6:00 PM - 8:00 PM

Author(s): Giorgio Filippi, European Southern Observatory (Chile); Sandra Jaque, REUNA (Chile); Rolf Chini, Ruhr-Univ. Bochum (Germany); Steffen Mieske, George Hau, European Southern Observatory (Chile); Albert Astudillo, REUNA (Chile); Mauricio Zambrano, Anton Schemml, Jose Parra, Jorge Ibsen, Joint ALMA Observatory (Chile)

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**TUESDAY 12 JUNE**[Show All Abstracts](#)**Tuesday Plenary Session**

Tuesday 12 June 2018  
 9:00 AM - 10:00 AM  
 Location: CC Level 1, Ballroom A

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**Coffee Break 10:00 AM - 10:30 AM**

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## Session 6: Telescope Control

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Tuesday 12 June 2018  
 10:30 AM - 12:20 PM  
 Location: CC Level 1, Room 3

Session Chairs: [Shui Hung Kwok](#), W. M. Keck Observatory (United States) ; Jorge Ibsen, Joint ALMA Observatory (Chile)


---

### The ELT control system *(Invited Paper)*

Paper 10707-31

Time: 10:30 AM - 11:00 AM

Author(s): Gianluca Chiozzi, Mario J. Kiekebusch, Nick Komweibel, Ulrich Lampater, Marcus Schilling, Babak Sedghi, Heiko Sommer, European Southern Observatory (Germany)

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### ESO ELT M1 local control system software design and development status *(Conference Presentation)*

Paper 10707-32

Time: 11:00 AM - 11:20 AM

Author(s): Javier Argomedo, Luigi Andolfato, Carlos Diaz Cano, Robert Frahm, Thomas Grudzien, Nick Komweibel, Diogo Ribeiro Gomes dos Santos, European Southern Observatory (Germany)

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### Dish LMC: a prototype control system for SKA1-mid array *(Canceled)*

Paper 10707-33

Time: 11:20 AM - 11:40 AM


Author(s):

### TMT common software construction update

Paper 10707-133

Time: 11:20 AM - 11:40 AM

Author(s): Kim Gillies, Thirty Meter Telescope (United States)


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### Robotic operation of the Observatorio Astrofísico de Javalambre (OAJ)

Paper 10707-34

Time: 11:40 AM - 12:00 PM

Author(s): Axel Yanes Díaz, Sergio Rueda-Teruel, Rafael Bello, Juan Luis Antón, Carlos López Sanjuan, David Cristóbal-Hornillos, Mikel Domínguez, Alessandro Ederoclite, Fernando Rueda Teruel, Guillermo López Alegre, Javier Cenarro Lagunas, Antonio Marín-Franch, Sergio Chueca, César Iñiguez, Javier Garzarán, Samuel Bielsa, Idefonso Soriano, Juana Jiménez, Tamara Civera, Juan Castillo, Jesús Varela, Héctor Vázquez Ramió, Carlos Hernández Monteagudo, Miguel Chioare Díaz Martín, Ramón Iglesias Marzoa, Ctr. de Estudios de Física del Cosmos de Aragón (Spain)


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### Robotic acquisition of spectrograph targets across the Las Cumbres Observatory global network of telescopes

Paper 10707-35

Time: 12:00 PM - 12:20 PM

Author(s): Stephen Foale, Las Cumbres Observatory Global Telescope Network (United Kingdom); Mark K. Bowman, Jon S. Nation, Daniel R. Harbeck, Robert J. Siverd, Las Cumbres Observatory Global Telescope Network (United States)

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**Lunch/Exhibition Break 12:20 PM - 1:40 PM**

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## Session 7: Observatory Software

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Tuesday 12 June 2018  
 1:40 PM - 3:20 PM  
 Location: CC Level 1, Room 3

Session Chairs: [Alan Bridger](#), UK Astronomy Technology Ctr. (United Kingdom) ; Tom Donaldson, Space Telescope Science Institute (United States)


---

### Queue scheduling software at the MMTO

Paper 10707-36

Time: 1:40 PM - 2:00 PM


Author(s): J. Duane Gibson, Dallan Porter, MMT Observatory (United States)

[Add To My Schedule](#) **General-purpose software for managing astronomical observing programs in the LSST era**

Paper 10707-37

Time: 2:00 PM - 2:20 PM


Author(s): Rachel Street, Mark K. Bowman, Eric Saunders, Todd Boroson, Las Cumbres Observatory Global Telescope Network (United States)

[Add To My Schedule](#) **The Euclid survey planning system**

Paper 10707-38

Time: 2:20 PM - 2:40 PM


Author(s): Pedro Gómez-Álvarez, FRACTAL S.L.N.E (Spain); Xavier Dupac, Guillermo Buenadicha, Roland Vavrek, John Hoar, European Space Agency (Spain); René Laureijs, European Space Agency (Netherlands); Roberto Scaramella, INAF - Osservatorio Astronomico di Roma (Italy); J. C. Cuillandre, Joao Dinis, Univ. de Lisboa (Portugal); Jérôme Amiaux, CEA-Ctr. de SACLAY (France), Univ. Paris-Saclay (France); Ismael Tereno, Univ. de Lisboa (Portugal)

[Add To My Schedule](#) **Dynamically scheduling observations of moving objects: the Catalina Sky Survey queue manager**

Paper 10707-39

Time: 2:40 PM - 3:00 PM


Author(s): Alex R. Gibbs, The Univ. of Arizona (United States)

[Add To My Schedule](#) **Current status of software log analysis at ALMA Observatory**

Paper 10707-40

Time: 3:00 PM - 3:20 PM

Author(s): Juan Pablo Gil, Nicolas Miranda, Mario Garces, Jorge Avarias, ALMA (Chile)

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**Coffee Break 3:20 PM - 3:50 PM**

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**Session 8:  
Real-time Control/AO**

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Tuesday 12 June 2018

3:50 PM - 5:10 PM

Location: CC Level 1, Room 3

Session Chair: [Kim Gillies](#), Thirty Meter Telescope (United States)


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**Multi-node homogeneous Xeon Phi architecture for ELT scale Adaptive Optics RTC (Conference Presentation)**

Paper 10707-42

Time: 3:50 PM - 4:10 PM


Author(s): David Jenkins, Alastair G. Basden, Richard M. Myers, James Osborn, Matthew J. Townson, Andrew P. Reeves, Lazar Staykov, Edward J. Younger, Deli Geng, Nigel A. Dipper, Durham Univ. (United Kingdom); Damien Gratadour, Arnaud Sevin, Denis Perret, Observatoire de Paris (France)

[Add To My Schedule](#) **A modular design for the MOSAIC AO real-time control system**

Paper 10707-41

Time: 4:10 PM - 4:30 PM


Author(s): Alastair G. Basden, David Jenkins, Tim J. Morris, James Osborn, Matthew J. Townson, Edward Younger, Durham Univ. (United Kingdom)

[Add To My Schedule](#) **The MAORY ICS software architecture**

Paper 10707-43

Time: 4:30 PM - 4:50 PM


Author(s): Bernardo Salasnich, Andrea Baruffolo, Andrea Balestra, INAF - Osservatorio Astronomico di Padova (Italy); Lorenzo Busoni, Alfio Puglisi, INAF - Osservatorio Astrofisico di Arcetri (Italy); Daniela Fantinel, INAF - Osservatorio Astronomico di Padova (Italy); Gianluca Di Rico, INAF - Osservatorio Astrofisico di Arcetri (Italy); Laurence Gluck, Institut de Planétologie et d'Astrophysique de Grenoble (France); Gérard Zins, European Southern Observatory (Chile); Dan Popovic, Mario J. Kiekebusch, European Southern Observatory (Germany); Emiliano Diolaiti, Paolo Ciliegi, INAF - Osservatorio Astronomico di Bologna (Italy); Simone Esposito, INAF - Osservatorio Astrofisico di Arcetri (Italy); Philippe Feautrier, Institut de Planétologie et d'Astrophysique de Grenoble (France); Roberto Ragazzoni, INAF - Osservatorio Astronomico di Padova (Italy)

[Add To My Schedule](#) **Middleware evaluation and selection for ELT-scale Adaptive Optics RTCS**

Paper 10707-44

Time: 4:50 PM - 5:10 PM

Author(s): Edward J. Younger, Alastair G. Basden, Deli Geng, Durham Univ. (United Kingdom); Damien Gratadour, Lab. d'Etudes Spatiales et d'Instrumentation en Astrophysique (France); Tim J. Morris, James Osborn, Durham Univ. (United Kingdom); Denis Perret, Arnaud Sevin, Lab. d'Etudes Spatiales et d'Instrumentation en Astrophysique (France); Lazar Staykov, Matthew J. Townson, Durham Univ. (United Kingdom)

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## Lightning Talks

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Tuesday 12 June 2018  
5:10 PM - 5:30 PM  
Location: CC Level 1, Room 3

Session Chairs: [Frossie Economou](#), Large Synoptic Survey Telescope (United States) ; [David L. Terrett](#), STFC Rutherford Appleton Lab. (United Kingdom)

Lightning talks are 5-minute-long presentations to allow conference participants to have the opportunity to highlight your posters, present a new idea, or to report progress on something interesting you have been working and feel compelled to share. The main objective of this activity is to promote exchange of ideas and productive conversations during the conference. Lightning talks have been scheduled at the end of the day on Sunday, Monday, and Tuesday.

If you want to propose a lightning talk, please send an e-mail to the conference chairs at your earliest convenience including the following information:

- Title
- Presenter
- Session theme that would be applicable to the subject you want to present (for referential information only)

Ground rules: Lightning talks' duration shall be strictly observed by the session chair. It is suggested to limit the number of slides to two, although any number of slides can be used as long as there are shown within the 5-min time limit. Talks will be selected randomly from all the proposals received each day until the end of the lunch break of the applicable days. Selection will be done during the last coffee break before the lightning talk session. Slides must be preloaded at the AV Desk immediately after the proposal is selected and prior to this session. Although there is no requirement to submit a proposal matching the session themes during a given day, you might want to consider submitting proposals that relate to them to take advantage of the attendees' interests.

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**WEDNESDAY 13 JUNE**

[Show All Abstracts](#)

## Wednesday Plenary Session

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Wednesday 13 June 2018  
9:00 AM - 10:00 AM  
Location: CC Level 1, Ballroom A

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**Coffee Break 10:00 AM - 10:30 AM**

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## Session 9: UI/Web Technologies

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Wednesday 13 June 2018  
10:30 AM - 12:00 PM  
Location: CC Level 1, Room 3

Session Chairs: Jorge Ibsen, Joint ALMA Observatory (Chile) ; [Frossie Economou](#), Large Synoptic Survey Telescope (United States)


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### Connecting the dots: reducing fragmentation in radio-telescopes user interfaces *(Invited Paper)*

Paper 10707-45

Time: 10:30 AM - 11:00 AM

Author(s): Valentina Alberti, INAF - Osservatorio Astronomico di Trieste (Italy); Giorgio Brajnik, Interaction Design Solutions Srl (Italy)

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### ImageX 3.0: a full stack imaging archive solution

Paper 10707-46

Time: 11:00 AM - 11:20 AM

Author(s): Michael D. Young, Arvind Gopu, Raymond Perigo, Indiana Univ. (United States)


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### Increasing the usability of the MICADO observation preparation tool through a hybrid user interface

Paper 10707-47

Time: 11:20 AM - 11:40 AM

Author(s): Michael Wegner, Joerg Schlichter, Univ.-Sternwarte München (Germany)


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### Web application security: CAS and beyond

Paper 10707-48

Time: 11:40 AM - 12:00 PM

Author(s): A. Maurizio Chavan, European Southern Observatory (Germany)

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**Lunch/Exhibition Break 12:00 PM - 1:40 PM**

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## Session 10: Instrumentation Control

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Wednesday 13 June 2018

1:40 PM - 5:30 PM

Location: CC Level 1, Room 3

Session Chairs: [Kim Gillies](#), Thirty Meter Telescope (United States) ; [Shui Hung Kwok](#), W. M. Keck Observatory (United States)


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### The Infrared Imaging Spectrograph (IRIS) for TMT: closed-loop adaptive optics while dithering

Paper 10707-49

Time: 1:40 PM - 2:00 PM

Author(s): Edward L. Chapin, Jennifer Dunn, David Andersen, Glen Herriot, Dan Kerley, NRC - Herzberg Astronomy & Astrophysics (Canada); Takashi Nakamoto, National Astronomical Observatory of Japan (Japan); Jimmy Johnson, Lianqi Wang, Gelys Trancho, Eric Chisholm, Brent Ellerbroek, Kim Gillies, Thirty Meter Telescope (United States); Yutaka Hayano, National Astronomical Observatory of Japan (Japan); James E. Larkin, Univ. of California, Los Angeles (United States); Luc Simard, NRC - Herzberg Astronomy & Astrophysics (Canada); Mark Sirota, Thirty Meter Telescope (United States); Ryuji Suzuki, National Astronomical Observatory of Japan (Japan); Robert Weber, Caltech (United States); Shelley A. Wright, Univ. of California, San Diego (United States); Kai Zhang, Nanjing Institute of Astronomical Optics & Technology (China), National Astronomical Observatories, Chinese Academy of Sciences (China)

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### The preliminary design of the G-CLEF spectrograph instrument device control system

Paper 10707-50

Time: 2:00 PM - 2:20 PM

Author(s): Ian N. Evans, Daniel Durusky, Janet D. Evans, Thomas Gauron, Cem Onyuksel, David A. Plummer, Harvard-Smithsonian Ctr. for Astrophysics (United States)


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### Architecture of the SOXS instrument control software

Paper 10707-51

Time: 2:20 PM - 2:40 PM

Author(s): Davide Ricci, Andrea Baruffolo, Bernardo Salasnich, Daniela Fantinel, INAF - Osservatorio Astronomico di Padova (Italy); Josefina Urrutia, European Southern Observatory (Germany); Sergio Campana, INAF - Osservatorio Astronomico di Brera (Italy); Riccardo Claudi, INAF - Osservatorio Astronomico di Padova (Italy); Pietro Schipani, INAF - Osservatorio Astronomico di Capodimonte (Italy); Matteo Aliverti, INAF - Osservatorio Astronomico di Brera (Italy); Sagi Ben-Ami, Weizmann Institute of Science (Israel); Federico Biondi, INAF - Osservatorio Astronomico di Padova (Italy); Anna Bruccalassi, European Southern Observatory (Germany); Giulio Capasso, INAF - Osservatorio Astronomico di Capodimonte (Italy); Rosario Cosentino, INAF - Osservatorio Astrofisico di Catania (Italy); Francesco D'Alessio, INAF - Osservatorio Astronomico di Roma (Italy); Paolo D'Avanzo, INAF - Osservatorio Astronomico di Brera (Italy); Oz Diner, Weizmann Institute of Science (Israel); Hanindy Kuncarayakti, FINCA - Finnish Ctr. for Astronomy with ESO (Finland); Matteo Munari, INAF - Osservatorio Astrofisico di Catania (Italy); Adam Rubin, Weizmann Institute of Science (Israel); Salvatore Scuderi, INAF - Osservatorio Astrofisico di Catania (Italy); Fabrizio Vitali, INAF - Osservatorio Astronomico di Roma (Italy); Jani Achrén, Incident Angle Oy (Finland); José Antonio Araiza-Durán, Univ. Andrés Bello (Chile); Iair Arcavi, Tel Aviv Univ. (Israel); Andrea Bianco, INAF - Osservatorio Astronomico di Brera (Italy); Enrico Cappellaro, INAF - Osservatorio Astronomico di Padova (Italy); Mirko Colapietro, Massimo Della Valle, Sergio D'Orsi, INAF - Osservatorio Astronomico di Capodimonte (Italy); Johan Fynbo, Dark Cosmology Ctr., Niels Bohr Institute (Denmark); Avishay Gal-Yam, Weizmann Institute of Science (Israel); Matteo Genoni, INAF - Osservatorio Astronomico di Brera (Italy); Mika Hirvonen, Aboa Space Research Oy (Finland); Jari Kotilainen, FINCA - Finnish Ctr. for Astronomy with ESO (Finland); Tarun Kumar, Univ. of Turku (Finland); Marco Landoni, INAF - Osservatorio Astronomico di Brera (Italy); Jussi Lehti, Aboa Space Research Oy (Finland); Gianluca Li Causi, INAF - Osservatorio Astronomico di Roma (Italy); Luca Marafatto, INAF - Osservatorio Astronomico di Padova (Italy); Seppo Mattila, FINCA - Finnish Ctr. for Astronomy with ESO (Finland); Giorgio Pariani, INAF - Osservatorio Astronomico di Brera (Italy); Giuliano Pignata, Univ. Andrés Bello (Chile); Michael Rappaport, Weizmann Institute of Science (Israel); Marco Riva, INAF - Osservatorio Astronomico di Brera (Italy); Stephen Smartt, Queen's Univ. Belfast (United Kingdom); Massimo Turatto, INAF - Osservatorio Astronomico di Padova (Italy); Ricardo Zánmar Sánchez, INAF - Osservatorio Astrofisico di Catania (Italy)


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### Design of the ERIS instrument control software

Paper 10707-52

Time: 2:40 PM - 3:00 PM

Author(s): Andrea Baruffolo, Bernardo Salasnich, INAF - Osservatorio Astronomico di Padova (Italy); Alfio Puglisi, Paolo Grani, INAF - Osservatorio Astrofisico di Arcetri (Italy); Xiaofeng Gao, UK Astronomy Technology Ctr. (United Kingdom); Erich Wiezorrek, Max-Planck-Institut für extraterrestrische Physik (Germany); Daniela Fantinel, INAF - Osservatorio Astronomico di Padova (Italy); Gianluca Di Rico, INAF - Osservatorio Astronomico di Teramo (Italy); Jens Knudstrup, Christophe Moins, European Southern Observatory (Germany); Olivier Absil, Space Sciences, Technologies, and Astrophysics Research (STAR) Institute, Université de Liege (Belgium); David Barr, European Southern Observatory (Germany); Alexander Buron, Max-Planck-Institut für extraterrestrische Physik (Germany); Elsa Huby, LESIA, Observatoire de Paris, PSL Research University, CNRS, Sorbonne Universités, Univ. Paris Dider (France); Matthew Kenworthy, Leiden Observatory, Leiden University (Netherlands); Mario J. Kieckebusch, Dan Popovic, European Southern Observatory (Germany); Emiel Por, Leiden Observatory (Netherlands); Christian Rau, Max-Planck-Institut für extraterrestrische Physik (Germany); Christian Soenke, European Southern Observatory (Germany); Chris Waring, UK Astronomy Technology Ctr. (United Kingdom)


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### Control software for the Multi-Channel Led starlight simulator

Paper 10707-53

Time: 3:00 PM - 3:20 PM

Author(s): Bernardo Salasnich, Riccardo Claudi, Eleonora Alei, INAF - Osservatorio Astronomico di Padova (Italy); Diego Barbisan, Dipartimento di Ingegneria dell'Informazione, Università degli Studi di Padova (Italy); Andrea Baruffolo, INAF - Osservatorio Astronomico di Padova (Italy); Lorenzo Cocola, Sergio Erculiani, CNR-IFN UoS Padova (Italy); Nicoletta La Rocca, Univ. degli Studi di Padova (Italy); Emanuele Pace, Univ. degli Studi di Firenze (Italy); Luca Poletto, CNR-IFN UoS Padova (Italy); Nicola Trivellin, LightCube SRL (Italy)

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**Coffee Break 3:20 PM - 3:50 PM**


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**Software architecture of the high-level control of FRIDA**

Paper 10707-54

Time: 3:50 PM - 4:10 PM


Author(s): Cesar Augusto Guzman Alvarez, Marta Aguiar Gonzalez, José Marco de la Rosa, Heidy Moreno, José Antonio Acosta-Pulido, Jesús Patrón Recio, Almudena Prieto, Instituto de Astrofísica de Canarias (Spain)

[Add To My Schedule](#) **Building a telescope engineering data system with Redis, InfluxDB and Grafana**

Paper 10707-55

Time: 4:10 PM - 4:30 PM


Author(s): Behzad Abareshi, Doug Williams, Robert Marshall, National Optical Astronomy Observatory (United States)

[Add To My Schedule](#) **MEGARA observation preparation and Quick Look software**

Paper 10707-56

Time: 4:30 PM - 4:50 PM


Author(s): Pedro Gómez-Álvarez, FRACTAL S.L.N.E (Spain); África Castillo, Univ. Complutense de Madrid (Spain); Jorge Iglesias-Páramo, Instituto de Astrofísica de Andalucía (Spain); Armando Gil de Paz, Univ. Complutense de Madrid (Spain); Marisa Luisa García-Vargas, Ana Pérez, FRACTAL S.L.N.E (Spain); Esperanza Carrasco, Instituto Nacional de Astrofísica, Óptica y Electrónica (Mexico); Sergio Pascual, Jesús Gallego, Univ. Complutense de Madrid (Spain); Emma Mújica, FRACTAL S.L.N.E (Spain); Raquel Cedazo, Universidad Politecnica de Madrid (Spain)

[Add To My Schedule](#) **Design of SHINS: the SHARK-NIR instrument control software**

Paper 10707-57

Time: 4:50 PM - 5:10 PM


Author(s): Marco De Pascale, Andrea Baruffolo, Bernardo Salasnich, Maria Bergomi, INAF - Osservatorio Astronomico di Padova (Italy); Florian Briegel, Max-Planck-Institut für Astronomie (Germany); Valentina D'Orazi, INAF - Osservatorio Astronomico di Padova (Italy); Elwood C. Downey, University of Arizona (United States); Jacopo Farinato, INAF - Osservatorio Astronomico di Padova (Italy); Philip M. Hinz, University of Arizona (United States); Luca Marafatto, INAF - Osservatorio Astronomico di Padova (Italy); Lars Mohr, Max-Planck-Institut für Astronomie (Germany); Valentina Viotto, INAF - Osservatorio Astronomico di Padova (Italy)

[Add To My Schedule](#) **The DESI instrument control systems: status and early testing**

Paper 10707-6

Time: 5:10 PM - 5:30 PM

Author(s): Klaus Honscheid, Ann Elliott, The Ohio State Univ. (United States); Elizabeth Buckley-Geer, Fermi National Accelerator Lab. (United States); Behzad Abreshi, National Optical Astronomy Observatory (United States); Francisco Castander, Institut d'Estudis Espacials de Catalunya (Spain); Luiz daCosta, Observatorio Nacional (Brazil); Stephen Kent, Fermi National Accelerator Lab. (United States); David Kirkby, Univ. of California, Irvine (United States); Robert Marshall, National Optical Astronomy Observatory (United States); Eric Neilsen, Fermi National Accelerator Lab. (United States); Ricardo Ogando, Observatorio Nacional (Brazil); David Rabinowitz, Yale Univ. (United States); Aaron Roodman, SLAC National Accelerator Lab. (United States); Santiago Serrano, Institut de Ciències de l'Espai (Spain); David Brooks, Department of Physics and Astronomy, University College London (United Kingdom); Michael Levi, Lawrence Berkeley National Laboratory (United States); Gregory Tarle, Physics Department, University of Michigan (United States)

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## Closing Remarks

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Wednesday 13 June 2018

5:30 PM - 5:40 PM

Location: CC Level 1, Room 3

Session Chairs: [Juan Carlos Guzman](#), Commonwealth Scientific and Industrial Research Organisation (Australia) ; Jorge Ibsen, Joint ALMA Observatory (Chile)

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