

Special Session on

**“Mining the sky: knowledge discovery in
big and complex astronomical data sets
and data streams”**

at IEEE SSCI 2016, Athens, Greece, December 6-9, 2016
Thursday, December 8 2016, 10:00 – 12:00

Location: Royal Olympic Hotel Room 4B
<http://www.royalolympic.com/>
Contact: Erzsébet Merényi and Kai Polsterer
erzsebet@rice.edu, Kai.Polsterer@h-its.org
Session program: overleaf

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CIDM Session 3 (of IEEE SSCI 2016)
**Special Session on “Mining the sky: knowledge discovery in big
and complex astronomical data sets and data streams”**

<https://asaip.psu.edu/organizations/ieee-astrominer-task-force/ieee-cidm-special-session-Mining-the-Sky>

Thursday, December 8, 2016 10:00 - 12:00, Room 4B

Chairs: Erzsébet Merényi and Kai Polsterer

(erzsebet@rice.edu, Kai.Polsterer@h-its.org)

Program

10:00 – 10:20

Sven Dennis Kügler, Nikolaos Gianniotis and Kai Lars Polsterer, A Spectral Model for Multimodal Redshift Estimation

10:20 – 10:40

Kinjal Dhar Gupta, Renuka Pampana, Ricardo Vilalta, Emille Ishida and Rafael de Souza, Automated Supernova Ia Classification Using Adaptive Learning Techniques

10:40 – 11:00

Erzsébet Merényi, Joshua Taylor and Andrea Isella, Mining Complex Hyperspectral ALMA Cubes for Structure with Neural Machine Learning

11:00 – 11:20

Stefano Cavuoti, Massimo Brescia, Valeria Amaro, Civita Vellucci, Guisepppe Longo and Crescenzo Tortora, Probability density estimation of photometric redshifts based on machine learning

11:20 – 11:40

Aaron Pope, Daniel Tauritz and Alexander Kent, Evolving Random Graph Generators: A Case for Increased Algorithmic Primitive Granularity

11:40 – 12:00

Aaron Pope, Daniel Tauritz and Alexander Kent, Evolving Multi-level Graph Partitioning