ISEST/MiniMax 2017 Workshop

Dates: 18 - 22 September 2017
Location: Jeju, Republic of Korea
Web: http://kswrc.kasi.re.kr/Workshop/isest2017/

Session Location: Room 203, ICC JEJU, JeJu

Note: There is only one session at one time, and all sessions throughout the workshop are in the same location.

Sep. 17 (Sunday) 16:00 - 18:00
Registration, Room 203 (2F), ICC Jeju

Sep. 17 (Sunday) 17:30 - 20:30
Reception
Place: Sorang (1F), ICC Jeju. Reception together with COSPAR

Sep. 18 (Monday Morning) 08:30 – 12:30: Registration

Sep. 18 (Monday Morning) 09:00 – 12:30
Session 1: WG Status Report (Chair: Nat Gopalswamy)

<table>
<thead>
<tr>
<th>Time</th>
<th>Presentation/Session Subject</th>
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<tbody>
<tr>
<td>09:00-09:05</td>
<td>SOC Remarks</td>
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<td>09:05-09:10</td>
<td>LOC Remarks</td>
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<tr>
<td>09:10-09:35</td>
<td>WG1 Report: Data</td>
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<tr>
<td>09:35-10:00</td>
<td>WG2 Report: Theory</td>
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<tr>
<td>10:00-10:25</td>
<td>WG3 Report: Simulation</td>
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<td>10:25-10:50</td>
<td>Coffee Break</td>
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<td>10:50-11:15</td>
<td>WG4 Report: Campaign</td>
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<td>11:15-11:40</td>
<td>WG5 Report: Bs</td>
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<tr>
<td>11:40-12:05</td>
<td>WG6 Report: SEP</td>
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<td>12:05-12:30</td>
<td>WG7 Report: MiniMax24</td>
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Sep. 18 (Monday Afternoon) 14:00 – 17:30
Session 2: WG1 on Data (Chair: Jie Zhang)

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<thead>
<tr>
<th>Time</th>
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<tbody>
<tr>
<td>14:00-15:00</td>
<td>Key Problems in the forecasting of the geoeffectiveness of CMEs</td>
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<tr>
<td>15:00-15:20</td>
<td>Development of a Daily Solar Major Flare Occurrence Probability Model Based on Vector Parameters from SDO/HMI</td>
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<td>15:20-15:40</td>
<td>Application of Convolution Neural Network to the forecasts of flare classification and occurrence using SOHO MDI data</td>
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<td>15:40-16:10</td>
<td>Coffee Break</td>
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<td>16:10-16:30</td>
<td>Heating of an erupting prominence associated with a solar coronal mass ejection on 2012 January 27</td>
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<td>16:30-16:50</td>
<td>Study of Filament Eruption During 2015 March 16 –15</td>
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<td>16:50-17:10</td>
<td>Open Discussion</td>
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<td>17:10-17:30</td>
<td>Open Discussion</td>
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Sep. 18 (Monday Afternoon) 14:00 – 17:30
Session 4: WG2/3 on Theory/Simulation (Chair: Yuming Wang)

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<th>Time</th>
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<tr>
<td>14:00-15:00</td>
<td>Progress of MHD Simulations for the Interplanetary Propagation of Coronal Mass Ejections</td>
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<tr>
<td>15:00-15:20</td>
<td>Iterative 3-D MHD ENLIL Modeling Using Interplanetary Scintillation (IPS) Observations</td>
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Note (a): Acting: Acting Working Group Leader for 2017 Workshop
Note (b): Standing: Standing Working Group Leader from 2014-2018 for ISEST Project

12:30-14:00 Lunch Break
15:20-15:40 Data-driven evolving models of the solar corona
Mark Cheung

15:40-16:10 Coffee Break

16:10-16:30 Response of the Earth’s magnetosphere and ionosphere to the small-scale magnetic flux rope in solar wind by the global MHD simulation
CME dynamics using STEREO & LASCO observations: the relative importance of Lorentz forces and solar wind drag
Kyung-Sun Park
Nishta Sachdeva

16:50-17:10 Open Discussion

17:10-17:30

Sep. 20 (Wednesday Morning) 09:00 – 12:30
Session 5: WG4 on Event Campaign Study (Chair: Nariaki Nitta)

09:00-10:00 What we can learn from the ISEST WG4 campaign study of Sun-Earth events? Katsuhide Marubashi (Theme-setting speaker) Yuming Wang
10:00-10:20 Evolution a coronal mass ejection from the Sun to Mercury, Venus, Earth and beyond Nariaki Nitta
10:20-10:40 Stealthy but Earth-Affecting CMEs Nariaki Nitta
10:40-11:10 Coffee Break
11:10-11:30 Statistical analysis of solar events associated with 1st SSC over one year of solar maximum during cycle 23: propagation and effects from the Sun to the Earth Brigitte Schmieder
11:30-11:50 On the dynamics of the largest active region of the solar cycle 24 Srivastava Nandita
11:50-12:10 Open Discussion
12:10-12:30 Open Discussion

Sep. 20 (Wednesday Afternoon) 14:00 – 17:30
Session 6: WG5 on Bs (Chair: Spiros Patsourakos)

14:00-15:00 Different techniques for (and some success in) measurement of Bs Berni Jackson (Theme-setting speaker) Iver Cairns
15:00-15:20 Predicting & Testing of Bz, Local CME Properties, White Light Images, and Type II Radio Emission from Sun to Earth Jae-Ok Lee
15:20-15:40 Effects of Geometries and Substructures of iCMEs on Geomagnetic Storms Jae-Ok Lee
15:40-16:10 Coffee Break
16:10-16:30 Gravitational instability on propagation of MHD waves in astrophysical plasma Alemayehu M. Cherkos
16:30-16:50 Observation of the Kelvin-Helmholtz Instability in the Solar Prominence Heesu Yang
16:50-17:10 Open Discussion
17:10-17:30 Open Discussion

Sep. 21 (Thursday Morning) 09:00 – 12:30
Session 7: WG6 on SEP (Chair: Nat Gopalswamy)

09:00-10:00 The Third class of Solar Energetic Particles Modeling the solar energetic particle transport in the 3D background solar wind Shock location and CME 3D reconstruction of the first spatial resolved solar type II radio burst with LOFAR
Rok-Soon Kim (Theme-setting speaker) Fang Shen
Pietro Zucca
10:40-11:10 Coffee Break
11:10-11:30 A Solar Stationary Type IV Radio Burst and its Radiation Mechanism Spectroscopic observation of a loop-top source of an M1.3 limb solar flare Temperature of Source Regions of 3He-rich Impulsive Solar Energetic Particle Events
Hongyu Liu
Kyoung-Sun Lee
Nai-Hwa Chen
11:30-11:50 Open Discussion
11:50-12:10 Open Discussion
12:10-12:30 Open Discussion

Sep. 21 (Thursday Afternoon) 14:00 – 18:00 Excursion
Sep. 21 (Thursday Evening) 18:30 – 21:00 Banquet Location: Woongjeong Hall (B2), Booyoung Hotel (with COSPAR)

Sep. 22 (Friday Morning) 09:00 – 12:30
Session 8: WG Summary Report (Chair: Kyungsuk Cho)

09:00-09:20 WG1 Summary Report Jie Zhang
09:20-09:40 WG2 Summary Report Yuming Wang
09:40-10:00 WG3 Summary Report Fang Shen
10:00-10:20 WG4 Summary Report Nariaki Nitta
10:20-10:40 WG5 Summary Report Spiros Pasourakos
10:40-11:10 Coffee Break
11:10-11:30 WG6 Summary Report Nat Gopalswamy
11:30-12:30 Open Discussion

Session 9: Future Plan and Open Discussion (Chair: Jie Zhang)
12:30 Adjourn