

Second Earth Orientation Parameters Prediction Comparison Campaign (2nd EOP PCC) Workshop No. 2

March 1-3, 2023, Alicante & Online

Programme

Registration: <http://eoppcc.cbk.waw.pl/workshop-registration/>

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Scientific Organizing Committee:

Santiago Belda
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José Manuel Ferrándiz
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Local Organizing Committee:

Santiago Belda
Maria Karbon
José Manuel Ferrándiz



Universitat d'Alacant
Universidad de Alicante



2nd EOP PCC Workshop No. 2 Programme

Wednesday 1 March 2023

10:00-11:00 Registration of participants

Session 1: 11:00-12:15

Convener: José Manuel Ferrándiz (University of Alicante)

11:00-11:30 Welcome

11:30-12:15 Jolanta Nastula, Henryk Dobslaw, Justyna Śliwińska, Tomasz Kur, Małgorzata Wińska, Aleksander Partyka, *Summary of the Second Earth Orientation Parameters Prediction Comparison Campaign (2nd EOP PCC)* **(on-site presentation)**

12:15-13:30 lunch break

Session 2: 13:30-15:10

Convener: Justyna Śliwińska (Centrum Badań Kosmicznych PAN)

13:30-13:55 Sonia Guessoum, Santiago Belda, Jose M. Ferrandiz, Sadegh Modiri, Sujata Dhar, Robert Heinkelmann, Harald Schuh, Shrishail Raut, *The short-term prediction of Polar Motion using the combination of SSA and the Multivariate Multi-step 1D-Convolutional Neural Networks with Multioutput strategy* **(on-site presentation)**

13:55-14:20 Sujata Dhar, Robert Heinkelmann, Santiago Belda, Sadegh Modiri, Harald Schuh, Sonia Guessoum, Jose M. Ferrandiz, *Combining Evolutionary Computation with Machine Learning technique for improved prediction of Earth Rotation Parameters* **(on-line presentation)**

14:20-14:45 Benedikt Soja, Mostafa Kiani Shahvandi, Matthias Schartner, Junyang Gou, *Comparison of machine-learning-based predictions of Earth orientation parameters using different input data* **(on-site presentation)**

14:45-15:10 Santiago Belda, Maria Karbon, Jose M. Ferrandiz, Sadegh Modiri, Sonia Guessoum, Shrishail Raut, Sujata Dhar, Robert Heinkelmann, Harald Schuh, *Gaussian Process Regression for Celestial Pole Offsets Prediction* (**on-site presentation**)

Thursday 2 March 2023

Session 3: 09:00-10:40

Convener: Maria Karbon (University of Alicante)

09:00-09:25 CanCan Xu, PengShuo Duan, ChengLi Huang, XueQing Xu, YongHong Zhou, *Revisited the deconvolution and convolution methods for the Earth's polar motion prediction* **(on-line presentation)**

09:25-09:50 Christian Bizouard, *Application of Kalman filter to operational CO4 ERP series* **(on-line presentation)**

09:50-10:15 Sadegh Modiri, Daniela Thaller, Santiago Belda, Jose M. Ferrandiz, Sonia Guessoum, Shrishail Raut, Sujata Dhar, Robert Heinkelmann, Harald Schuh, *Towards the improvement of EOP prediction: Final results of our contribution to the 2nd EOP PCC* **(on-site presentation)**

10:15-10:40 Alexander Kehm, Mostafa Kiani Shahvandi, Robert Dill, Benedikt Soja, Mathis Bloßfeld, Henryk Dobslaw, *Strategies to realise highly precise Earth Rotation Parameter predictions* **(on-site presentation)**

10:40-11:10 coffee break

Session 4: 11:10-12:50

Convener: Santiago Belda (University of Alicante)

11:10-11:35 Yuxin Zhou, Na Wei, Xueqing Xu, *Improved Prediction of Polar motion by combining effective angular momentum and IGS ultra rapid data* **(on-line presentation)**

11:35-12:00 Wei Miao, Leyang Wang, Fei Wu, *Improved ERPs prediction with different weights of EAM fitted residuals* **(on-line presentation)**

12:00-12:25 Maciej Michalczak, Marcin Ligas, *Dynamic Mode Decomposition and bivariate autoregressive short-term prediction of ERP time series* **(on-site presentation)**

12:25-12:50 Robert Dill, Henryk Dobslaw, Maik Thomas, *ESMGFZ EAM Products and EOP Prediction* **(on-site presentation)**

Friday 3 March 2023

Session 5: 10:00-10:50

Convener: Jolanta Nastula (Centrum Badań Kosmicznych PAN)

10:00-10:25 Yuanwei Wu, Dang Yao, Xuhai Yang, Shougang Zhang, *NTSC Activities of UT1 Measurement and Services* **(on-line presentation)**

10:25-10:50 Richard Gross, Claudio Abbondanza, Dale Boggs, T. Mike Chin, Mike Heflin, Jay Parker, J. Todd Ratcliff, *A Sequential Estimation Approach to Determining Improved Reference EOP Series* **(on-site presentation)**

10:50-11:20 coffee break

Session 6: 11:20-13:00

Conveners: José Manuel Ferrándiz, Henryk Dobslaw, Jolanta Nastula, Justyna Śliwińska

11:20-13:00 Discussion session with Workshop summary