1st Conference on Machine Learning for Gravitational Waves, Geophysics, Robotics, Control System and CA17137 MC2 meeting

Report of Contributions

Contribution ID: **1** Type: **not specified**

”Imbedding large reasearch infrastructures in the earth environment, the case for Virgo”.

Monday, January 14, 2019 9:30 AM (45 minutes)

Presenter: Prof. STAVROS, Katsanevas

Session Classification: Introduction to Gravitational Waves

Contribution ID: **2** Type: **not specified**

The future of Gravitational Waves detectors: toward Einstein Telescope

Monday, January 14, 2019 10:15 AM (45 minutes)

Presenter: PUNTURO, Michele (INFN)

Session Classification: Introduction to Gravitational Waves

Contribution ID: **3** Type: **not specified**

Coupling between seismic noise and diffuse light in GW detector

Monday, January 14, 2019 11:15 AM (30 minutes)

Presenter: Dr CHIUMMO, Antonino (European Gravitational Observatory)

Session Classification: Introduction to Gravitational Waves

Contribution ID: **4** Type: **not specified**

Hunting environmental noise in Virgo

Monday, January 14, 2019 11:45 AM (30 minutes)

Presenter: FIORI, Irene (European Gravitational Observatory)

Session Classification: Introduction to Gravitational Waves

Contribution ID: **5** Type: **not specified**

WG3 introduction

Monday, January 14, 2019 2:00 PM (30 minutes)

Presenter: HARMS, Jan

Session Classification: ML for Advanced Control techniques

Contribution ID: **6** Type: **not specified**

Angular controls in Virgo

Monday, January 14, 2019 2:30 PM (30 minutes)

Presenter: CASANUEVA DIAZ, Julia

Session Classification: ML for Advanced Control techniques

Contribution ID: **7** Type: **not specified**

Feed-forward noise cancellation in Virgo

Monday, January 14, 2019 3:00 PM (30 minutes)

Presenter: Dr BERSANETTI, Diego (INFN Genova)

Session Classification: ML for Advanced Control techniques

Contribution ID: **8** Type: **not specified**

ML for noise cancellation in systems with non-linear coupling

Monday, January 14, 2019 3:30 PM (30 minutes)

Presenter: IESS, Alberto (University of Rome Tor Vergata)

Session Classification: ML for Advanced Control techniques

Contribution ID: **9** Type: **not specified**

ML and genetic algorithms for noise cancellation

Monday, January 14, 2019 4:15 PM (35 minutes)

Presenter: CIRONE, Alessio

Session Classification: ML for Advanced Control techniques

Contribution ID: **10** Type: **not specified**

Non-stationary noise cancellation with causal, stable parametric filters

Monday, January 14, 2019 4:50 PM (40 minutes)

Presenter: Dr VAJENTE, Gabriele

Session Classification: ML for Advanced Control techniques

Contribution ID: **11** Type: **not specified**

Newtonian Noise subtraction test array at Virgo

Tuesday, January 15, 2019 9:15 AM (30 minutes)

Presenter: BULIK, Tomasz

Session Classification: ML for low-frequency seismic measurement

Contribution ID: **12** Type: **not specified**

Robots for GW detectors and infrastructure monitoring and operation: Can Networks of Autonomous Robotics Vehicles help the characterization of Newtonian, Acoustic and Other Source Noise in GW detection?

Tuesday, January 15, 2019 9:45 AM (30 minutes)

Presenter: Prof. BONSIGNORIO, Fabio (Scuola Superiore Sant'Anna)

Session Classification: ML for low-frequency seismic measurement

Contribution ID: **13** Type: **not specified**

Machine Learning for seismic events

Tuesday, January 15, 2019 10:15 AM (30 minutes)

Presenter: Ms DARIO , Jozinović (INGV)

Session Classification: ML for low-frequency seismic measurement

Contribution ID: **14** Type: **not specified**

Generalized maximum entropy inference for seismic models

Tuesday, January 15, 2019 10:45 AM (30 minutes)

Presenter: Dr ILIC, Velimir

Session Classification: ML for low-frequency seismic measurement

Contribution ID: **15** Type: **not specified**

GW detector sites characterization with seismic arrays

Tuesday, January 15, 2019 2:00 PM (40 minutes)

Presenter: KOLEY, Soumen (Nikhef)

Session Classification: ML for low-frequency seismic measurement

Contribution ID: **16** Type: **not specified**

WG1 introduction

Tuesday, January 15, 2019 3:00 PM (20 minutes)

Presenter: BEJGER, Michal

Session Classification: ML for GW astronomy

Contribution ID: **17** Type: **not specified**

Total-variation and dictionary learning methods for gravitational-wave data analysis

Tuesday, January 15, 2019 3:20 PM (40 minutes)

Presenter: FONT-RODA, Jose Antonio

Session Classification: ML for GW astronomy

Contribution ID: **18** Type: **not specified**

Gravitational Wave Open Science Center: how to access LIGO/Virgo open data

Tuesday, January 15, 2019 4:15 PM (40 minutes)

Presenter: Dr TROVATO, Agata

Session Classification: ML for GW astronomy

Contribution ID: **19** Type: **not specified**

Image-based transient signal classification with deep learning

Tuesday, January 15, 2019 4:55 PM (40 minutes)

Presenter: RAZZANO, Massimiliano

Session Classification: ML for GW astronomy

Contribution ID: **20** Type: **not specified**

WG2 introduction

Tuesday, January 15, 2019 9:00 AM (15 minutes)

Presenter: BERTOLINI, Alessandro

Session Classification: ML for low-frequency seismic measurement

Contribution ID: **21** Type: **not specified**

Deep Learning Methods for Predictive Tasks with Large Scale Sensor Data

Tuesday, January 15, 2019 5:35 PM (40 minutes)

Presenter: Dr CORIZZO, Roberto

Session Classification: ML for GW astronomy

Contribution ID: **22** Type: **not specified**

Applications of Machine Learning in seismology

Monday, January 14, 2019 12:15 PM (30 minutes)

Presenter: Dr MICHELINI, Alberto (alberto.michelini@ingv.it)

Session Classification: Introduction to Gravitational Waves

Contribution ID: **23** Type: **not specified**

Short Term Scientific Mission Call

Tuesday, January 15, 2019 2:40 PM (10 minutes)

Presenter: LILIANA, Apolinario

Session Classification: ML for low-frequency seismic measurement