WG3 WORKSHOP

Non-destructive Spectroscopic Sensors (NDSS) data management issues: Challenges and recommendations

Thursday 26 January 2022

Department of Chemical and Geological Sciences www.dscg.unimore.it
Aula **U0.1**, Via Campi 103 Modena – Italy

AGENDA

8:50 Registration

9:10 Welcome (Lola Pérez-Marín and Marina Cocchi)

9:20 – 10:00 Invited Lecture 1. T. Fearn – J.A. Fernandez Pierna

Validation issue in NDSS monitoring including long-term monitoring

10:00-10:20 Discussion

Short contributed (remote)

10:20-10:30 S1 Conditional Entropy-based predictions (Ahmed Menevseoglu)
10:35-10:45 S2 Improvement in prediction of nutritive value of elephant grass with local calibrations (Víctor M. Fernández Cabanás)
10:50-11:00 S7 Non destructive methods for food analysis (Amna Sahar)

11:00-11:20 Coffee break

11:20- 12:00 Invited Lecture 2 José Blasco – Raffaele Vitale – José Amigo

In-process NDSS real-time analysis

12:00-12:20 Discussion

Short contributed

12:20-12:30 S2 On-line sensors based on NIRS (Cecilia Riccioli)
12:35-12:45 S3 Time series modelling of continuous NDSS signals (Ingrid Måge)

12:50 – 13:50 Lunch

13:50-14:30 Invited Lecture 3 Federico Marini

Data Fusion of diverse NDSS spectra, images

14:30-14:50 Discussion

14:50-15:30 Invited Lecture 4 Valeria Fonseca Diaz – Jean Michel Roger

NDSS Model maintenance and calibration transfer

15:30-15:50 Discussion

Short contributed

15:50 16:00 S4 Model maintenance and transfer learning (Ramin Nikzad-Langerodi)

16:05-16:15 S5 Advances in calibration transfer (AndrewParrott)

16:20-16:30 S6 Calibration transfer using wavelength correspondence (Erik Tengstrand)

16:35-16:55 Coffee break

16:55-17:35 Invited Lecture Claudia Beleites – Claudia Paoletti – Kim Esbensen

NDSS Sampling issues and strategies

17:35-17:55 Discussion

18:00-18:15 Summary of the day

20:00 Social dinner