

DIGITAL SIGNAL AND IMAGE PROCESSING WITH APPLICATIONS

(<http://uprt.vscht.cz/prochazka/pedag/ATHENSE.htm>)

Prof. Aleš Procházka

Programme ATHENS: CTU15 - November 20-24, 2023
Advanced Technology Higher Education Networks, Socrates



1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 ATHENS 15

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| 1. Alexandra MOLČANOVÁ (UCT, Prague) | 2. Pedro CURVO (IST, Lisbon) |
| 3. Raphael Le Blanc (TP, Paris) | 4. Maria Carolina MACHADO (IST, Lisbon) |
| 5. Lorenzo Sciarretta (Politecnico di Milano, Milan) | 6. Vincent GEFFLAUT (ENPC, Paris) |
| 7. Joana PIMENTA (IST, Lisbon) | 8. Filip WIŚNIEWSKI (WUT, Warsaw) |
| 9. Lidia EJARQUE BUENO (Mines, Paris) | 10. Piotr NIEDZIAŁEK (WUT, Warsaw) |
| 11. Shan GAO (TUD, Delft) | 12. Pedro BIRRA (IST, Lisbon) |
| 13. Ivan Dos Santos FIGUEIREDO (IST, Lisbon) | 14. Martin SCHÄTZ (UCT, Prague) |
| | 15. Aleš PROCHÁZKA (UCT, Prague) |

FINAL MEETING AND PRESENTATIONS

Friday 24 November 2023, Room A40

Department of Computing and Control Engineering ICT Prague

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|---|---|
| 12:15 Pedro BIRRA (IST, Lisbon) | Audio compression using wavelets in MATLAB |
| 12:30 Pedro CURVO (IST, Lisbon) | CNNs: Foundations and applications |
| 12:45 Ivan FIGUEIREDO (IST, Lisbon) | Principles of artificial neural networks |
| 13:00 Lidia EJARQUE BUENO (Mines, Paris) | Specific problems of environmental signal processing and data modelling |
| 13:15 Shan GAO (TUD, Delft) | Wavelet decomposition and denoising in image processing |
| 13:30 Vincent GEFFLAUT (ENPC, Paris) | Electronic filters with R,L,C |
| 13:45 Raphael Le Blanc (TP, Paris) | Z-transform, its definition, basic properties and applications |
| 14:00 Joana PIMENTA (IST, Lisbon) | GAN's applications in image processing |
| 14:15 Piotr NIEDZIAŁEK (WUT, Warsaw) | Image processing in robotics |
| 14:30 Maria Carolina MACHADO (IST, Lisbon) | Image processing of dermoscopic Images |
| 14:45 Lorenzo Sciarretta (Politecnico di Milano, Milan) | Artificial neural networks in adaptive signal processing |
| 15:00 Filip WIŚNIEWSKI (WUT, Warsaw) | Selected problems and methods of biomedical signal processing |