Third announcement, January 14, 2013.

THE SIXTH WORKSHOP ON CYCLOSTATIONARY SYSTEMS AND THEIR APPLICATIONS
February 7 – 12, 2013, Gródek nad Dunajcem, Poland.

Workshop focus: “Cyclostationary models and beyond: from data to decisions”

Recent success of Summer School on cyclostationary models held in Lyon in June 2012 indicates a huge potential for research and cooperation between signal processing experts and engineers in that area. Following the five year tradition of organizing meetings dedicated to cyclostationary models in signal processing in Poland, we invite everyone interested to participate in the forthcoming event. Participants of Summer School in Lyon in June 2012 are especially welcome.

The workshop will be organized in February 2013, the dates are February 7 through 12, 2013 (Thursday through Tuesday). Our tradition is to have keynote lectures given by prominent specialists in the area accompanied by contributed talks and/or poster sessions given by young researchers. We usually have round-table meetings dedicated to specific topics and also significant unstructured time for an informal interaction. Usually, the keynote lectures are held in the morning followed by contributed talks later before lunch. Then, after the lunch break we usually organize round-table meetings or we leave room for informal interactions. On Sunday February 10, 2013 we will be providing transportation to go to a famous winter sports center Krynica where walking, skiing, skating or simply watching the beauty of winter from a cozy café will be possible.

Scientific organization of the workshop.

Day 1. Thursday, February 7, 2013. Morning lectures topic: FRACTION OF TIME APPROACH

Keynote speakers: Antonio Napolitano, Jacek Leskow

9:30 Morning session

Opening of the conference.

Jacek Leśkow, Institute of Mathematics, Cracow University of Technology, Poland.
“Relative measure as a new tool in signal analysis”.

Antonio Napolitano, Universita di Parthenope, Napoli, Italy
"The central limit theorem in the functional approach for signal analysis"

Discussion
Day 1 (continued). 13:00 – 15:00 Lunch break

15:00 – 18:00: contributed talks and posters (a detailed list will be available in the final announcement)

Day 2. Friday, February 8, 2013. Morning lectures topic: BEYOND CYCLOSTATIONARY MODELS: NEW IDEAS AND INSIGHTS.

Keynote speakers: Antonio Napolitano, Christiana Drake, Harry Hurd, Andrzej Makagon

9:30 Morning session

Harry Hurd, Department of Statistics, University of North Carolina, Chapel Hill, USA.

“PARMA models and their applications”

Andrzej Makagon, Department of Mathematics, Hampton University, USA.

“Spectral model for periodically correlated sequences”

Antonio Napolitano, Universita di Parthenope, Napoli, Italy.

“Challenging problems in spectral analysis of generalizations of cyclostationary models”

Christiana Drake, Department of Statistics, University of California, Davis.

“Missing data and cyclostationary processes”

13:00 – 15:00 Lunch break

15:00 – 18:00 Contributed talks and posters (a detailed list will be available in the final announcement)

Keynote speakers: Jacek Leskow, Anna Dudek, Ihor Yavorskij, Dominique Dehay.

9:30 Morning session

Anna Dudek, AGH University of Science and Technology, Cracow, Poland.
“Generalized Seasonal Block Bootstrap in the second order analysis for signals”

Jacek Leśkow, Institute of Mathematics, Cracow University of Technology, Poland
“Resampling methods in the first order analysis for signals”

Ihor Yavorskij, Institute of Physics and Mechanics, Ukrainian Academy of Sciences, Lviv.
“Cyclostationary signals and their applications”

Dominique Dehay, Universite Rennes II, France.
“Ornstein-Uhlenbeck process and parameter estimation problem”

Guillaume Bouleux, Laboratoire d’Analyse des Signaux et Processus Industriels, Roanne, France.
“On spectral measure for almost cyclostationary processes”

13:00 – 15:00 Lunch break

15:00 – 18:00 Contributed talks and posters (a detailed list will be available in the final announcement)

Evening: conference dinner (a la carte)

Keynote speakers: Agnieszka Wyłomańska, Radosław Zimroz, Fakher Chaari

9:30 Morning session

Radosław Zimroz, Institute of Mining, Technical University of Wrocław, Poland. “Cyclostationary analysis of vibration signals for complex machinery diagnostics”

Agnieszka Wyłomańska, Institute of Mathematics and Computer Sciences, Technical University of Wrocław “On PARMA sequences”

Fakher Chaari, National School of Engineers, Sfax, Tunisia. “Machine condition monitoring in non-stationary operations”

13:00 – 15:00 Lunch break

15:00 – 18:00 Contributed talks and posters (a detailed list will be available in the final announcement)

Day 5. Tuesday, February 12. Round table meeting regarding future research on cyclostationarity

10:00 am. Round table starts. Discussion moderators: Jacek Leskow, Antonio Napolitano. Radosław Zimroz.

12 noon. Lunch

Return to Cracow.
Workshop participants listed in the alphabetical order (as of January 15, 2013).

1. Guillaume Bouleux, LASPI, Roanne, France.
2. Fakher Chaari, National School of Engineers, Sfax, Tunisia.
3. Dariusz Dąbrowski, AGH University of Technology, Cracow, Poland.
5. Christiana Drake, Department of Statistics, University of California, Davis, USA.
6. Anna Dudek, AGH University of Technology, Cracow, Poland.
8. Elżbieta Gajecka, PWSZ, Nowy Sącz, Poland.
9. Zahra Hashemiyan, AGH University of Technology, Cracow, Poland.
10. Harry Hurd, Department of Statistics, University of North Carolina, Chapel Hill, USA.
11. Oskar Knapik, University of Economics, Cracow, Poland.
12. Jacek Leśkow, Institute of Mathematics, Cracow University of Technology, Poland.
13. Sofiane Maiz, LASPI, Roanne, France.
14. Andrzej Makagon, Department of Mathematics, Hampton University, USA.
15. Ivan Matsko, Institute of Physics and Mechanics, Ukrainian Academy of Sciences, Lviv, Ukraine.
16. Antonio Napolitano, Universita di Parthenope, Napoli, Italy.
17. Jakub Obuchowski, Technical University of Wroclaw, Poland.
18. Amani Raad, Lebanese University, Tripoli, Lebanon.
19. Andrea Ramirez, University of Twente, Netherlands.
20. Bartosz Stawiarski, Institute of Mathematics, Cracow University of Technology, Poland.
21. Wioletta Wójtowicz, AGH University of Technology, Cracow, Poland.
22. Agnieszka Wyłomańska, Technical University of Wroclaw, Poland.
23. Ihor Yavorskij, Institute of Physics and Mechanics, Ukrainian Academy of Sciences, Lviv, Ukraine.
24. Roman Yuzefovych, Institute of Physics and Mechanics, Ukrainian Academy of Sciences, Lviv, Ukraine.
25. Radosław Zimroz, Technical University of Wroclaw, Poland.