



Session 16

INTEGRAL TRANSFORMS AND REPRODUCING KERNELS

Organisers: Saburou Saitoh (Aveiro), Juri Rappoport (Moscow)

August 05 / 2013, Room 309

Subsession: MEDICAL MATHEMATICS AND COMPUTING

Co-organizers: Robert Gilbert, Juri Rappoport

14:30--15:00

Robert Gilbert, Biomechanical model of the human eye on the base of nonlinear shell theory

15:00--15:30

Vladimir Yakushev (by Juri Rappoport), Biomechanical model of the human eye on the base of nonlinear shell theory

15:30--16:00

Eva Voronkova, Finite element modelling and statistical analysis for applanation tonometry after refractive surgery

16:00--16:30

Coffee/tea break

16:30--17:00

Konstantin Kotliar, Retinal pulse wave velocity assesment for in-vivo estimation of retinal arterial stiffness

17:00--17:30

Juri Rappoport, Some ophthalmic applications of modified Bessel functions

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Subsession: WAVELET THEORY AND ITS RELATED TOPICS

Co-organizers: Keiko Fujita, Akira Morimoto

Schedule according the plan of subsession coorganizers.



August 08 / 2013, Room 309

Subsession: INTEGRAL TRANSFORMS AND REPRODUCING KERNELS

Co-organizers: Saburo Saitoh, Juri Rappoport

12:10--12:40

Juri Rappoport, On approximation of Yakubovich transforms

12:40--13:10

Sanja Konjik, Approximation of the Riemann-Liouville derivative using the moments of a function and its applications

13:10--14:30

Lunch break

14:30--15:00

Tsutomu Matsuura, Dirichlet's problem by using computers with the theory of reproducing kernels

15:00--15:30

Nguen Minh Tuan, Convolutions for the fractional Fourier transform and applications

15:30--16:00

M. Manuela Rodrigues, Study of some properties related to the Whittaker integral transform

16:00--16:30

Coffee/tea break

16:30--17:00

Lyubov Britvina, Generalized shift operators generated by convolutions of integral transforms and their properties

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12:10--12:40

Saburo Saitoh, Reproducing kernels and discretization

12:40--13:10

Kim Tuan Vu, Irregular samplings in Hardy spaces and reproducing kernel Hilbert spaces

13:10--14:40

Lunch



14:30--15:00

Luis Daniel Abreu, Inverse problems for Toeplitz and time-frequency localization operators

15:00--15:30

Gabriela Santin, A orthonormal basis for radial basis function approximation

15:30--16:00

Ainur Temirkhanova, Weighted inequalities for a class of matrix operators: the case $1 < q < p < \infty$

16:00--16:30

Coffee/tea break
