

Numerical Analysis AND Optimization Days (JANO'13)

Khouribga, February 22-24, 2021

MS9. Computing Algebra and Applications

Organizers: **Mohamed Heyouni** (Mohamed Premier University, Morocco) &
Khalide Jbilou (UMI, University of Littoral Côte d'Opale, France)
Monday, February 22, 2021 (14h-16h & 16h30--17h15)

n°	Title and Authours	Time table
1	A. H Bentbib, M. Boubekraoui and K. Jbilou: Solving Multilinear Page Rank Problem	14h--14h15
2	M. El Ghomari , A. H. Bentbib and K. Jbilou: Extended Krylov subspace methods for matrix approximations.	14h20--14h35
3	A. El Hachimi , K. Jbilou, A. H. Bentbib and A. Ratnani, Tensor Regularization methods for image completion.	14h40--14h55
4	A. El Ichi , K. Jbilou and R. Sadaka: Tensor Krylov subspace methods via the T-product for large Sylvester Tensor Equations.	15h00--15h15
5	O. Benchettou , A. H. Bentbib, A. Bouhamidi and K. Kreit: Tensorial total variation regularization for image and video restoration	15h20--15h35
6	A. Chkifa, M. A. Hamadi , K. Jbilou and A. Ratnani, On a numerical Krylov method for model reduction of index-2 dynamical systems with applications to Stokes equations.	15h40--15h55

COFFEE BREAK

7	S. Rashid , A. Nachaoui, A. Jabbar, M. Hama and Adil Jabbar. Efficient iterative algorithms for ill-conditioned linear systems in the approximation of ill-posed problems	16h30--15h45
8	A. Khouia , A. H. Bentbib and H. Sadok, The LSQR method for solving tensor least squares problem	16h50--17h05
9	I. Abdaoui , M. Heyouni and L. Elbouyahyaoui: The simpler Block CMRH method for linear systems	17h10--17h25
10	F. Bouyghf , A. Messaoudi, H. Sadok: An enhancement of the convergence of the Induced Dimension Reduction method IDR(s) for solving linear systems	17h30--17h45
11	L. Sadek , E. M. Sadek, A. H. Bentbib, H. Talibi Aaloui, Global extended Krylov subspace method for solving large scale differential Sylvester matrix equations	17h55--18h05