

Schedule

18ICMAA Day 1, June 22, 2018 (Friday): Registration and free discussion

18ICMAA Day 2, June 23, 2018 (Saturday):

9:00-9:15 Opening (W2-101, Committee members and invited speakers on stage, award plaque, matrix hats)

9:15-10:00 Invited Talk T. Ando, *Norm conditions for separability in $M_m \otimes M_n$* (Room: W2-101)

Chair Hiroyuki Osaka

10:00-10:30 Coffee Break

10:30-11:30 Morning parallel sessions (Room 1: W5-21, Room 2: W5-23)

Time	Room 1, Chair R. Sze	Room 2, Chair Fuzhen Zhang
10:30-11:00	Frank Hansen <i>Multivariate convex operator means</i>	Christopher Paige <i>Loss of orthogonality in large sparse matrix computations</i>
11:00-11:30	Tin-Yau Tam <i>Some Nonlinear Problems in Linear Algebra</i>	Yongdo Lim <i>Log-majorizations for the eigenvalues of the Cartan barycenter</i>

11:30-1:30 PM Lunch

13:30-17:00 Afternoon parallel sessions (Room 1: W5-21, Room 2: W5-23)

Time PM	Room 1, Chair da Fonseca	Room 2, Chair H. Osaka
1:30-2:00	Enide Andrade <i>Bottleneck matrices and combinatorial Perron parameters of trees</i>	Schindranath Jayaraman <i>Nonsingular subspaces of $M_n(\mathbb{F})$, \mathbb{F} a field</i>
2:00-2:30	Lei Cao <i>Symmetric, Hankel-symmetric, and Centrosymmetric Doubly Stochastic Matrices</i>	Vatsalkumar N. Mer <i>Semipositivity of matrices and linear maps relative to proper cones</i>
2:30-3:00	Yue Liu <i>The ray nonsingularity of certain uniformly random ray patterns</i>	Hoa-Binh T. Du <i>A note on Positivstellensatz for matrix polynomials</i>

3:00-3:30 PM Coffee break

Time PM	Room 1, Chair C. Xu	Room 2, Chair Y. Zhang
3:30-4:00	Carlos M. da Fonseca <i>A short proof of an inverse eigenvalue problem for Jacobi matrices</i>	Yusuke Sawada <i>The affine property of quasi-free states on self-dual CAR algebras</i>
4:00-4:30	Takeaki Yamazaki <i>On numerical range of a generalization of the Aluthge transform</i>	Agnes T. Paras <i>The subspaces spanned by Householder vectors associated with an orthogonal or a symplectic matrix</i>
4:30-5:00	Rute Lemos <i>Some log-majorizations and a determinantal inequality</i>	Himadri Mukherjee <i>An improved voting power index based on relations between the players</i>

18ICMAA Day 3, June 24, 2018 (Sunday):

9:00-9:45 Invited Talk F. Hiai, *Quantum f -divergences in von Neumann algebras* (Room: W2-101)

Chair Hiromichi Ohno

9:45-10:00 Group photo

10:00-10:30 Coffee Break

10:30-11:30 Morning parallel sessions (Room 1: W5-21, Room 2: W5-23)

Time	Room 1, Chair T.Y. Tam	Room 2, Chair L. Cao
10:30-11:00	Seung-Hyeok Kye <i>Separability criteria of multi-qubit states in terms of diagonal and anti-diagonal entries</i>	Yang Zhang <i>Maple package for matrix computations</i>
11:00-11:30	Raymond Nung-Sing Sze <i>The generalized numerical range of a set of matrices</i>	Yoichi Udagawa <i>An integral representation of some operator monotone functions</i>

11:30-1:30 PM Lunch

1:30-4:30 PM Afternoon parallel sessions (Room 1: W5-21, Room 2: W5-23)

Time PM	Room 1, Chair S.-H. Kye	Room 2, Chair T. Yamazaki
1:30-2:00	Jinmi Hwang <i>Bounds for the Wasserstein mean with applications to the Lie-Trotter mean</i>	Changqing Xu <i>Commutation matrices and commutation tensors</i>
2:00-2:30	Hosoo Lee <i>Karcher equations and geometric mean tensor</i>	Siripong Sirisuk <i>Generalized bilinear form graphs over finite commutative rings</i>
2:30-3:00	Hiromichi Ohno <i>Unitary equivalence classes of some types of quantum walks</i>	Fuzhen Zhang <i>Enumerating vertices of the polytopes of stochastic tensors by an optimization approach</i>

3:00-3:30 PM Coffee break

Time PM	Room 1, Discussions	Room 2, discussions
3:30-4:00	Yukihiro Tsurumi <i>Operator means and generalized relative entropy</i>	Bich-Khue T. Vo <i>Some inequalities for matrix Heinz mean</i>
4:00-4:30	Tongsong Jiang <i>A unified approach for the Schrodinger equations in quaternionic and split quaternionic mechanics</i>	

5:30 PM - Banquet

18ICMAA Day 4, June 25, 2018 (Monday): Free Discussions