

## Mathematics Session

Abstract No.	Time	Presented by	Affiliation	Title	Authors	page No.
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### Plenary Lecture: October 13 at the University Library Hall

MO-01	16:15-16:50	Ruey-Lin Sheu	National Cheng-Kung University	On RIC bounds of compressed sensing matrices for approximating sparse solutions using $l_q$ quasi norms	Ruey-Lin Sheu	72
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### Oral presentations: October 12 at Advanced Education and Research Building G, Room G310

Chair person: Tamaki Tanaka (Niigata University)						
MO-02	10:00	Sehie Park	Seoul National University	From simplices to KKM spaces: A brief history of the KKM theory	Sehie Park	73
MO-03	10:25	Tae-Hwa Kim	Pukyong National University	Convergence theorems for families of generalized asymptotically quasi-nonexpansive in the intermediate sense	Tae-Hwa Kim	74
MO-04	10:50	Yutaka Saito	Niigata University	On relationship between Fan-Takahashi and Ricceri theorems	Yutaka Saito, Tamaki Tanaka and Syuuji Yamada	75
MO-05	11:15	Juniven Paglinawan Acapulco	Mindanao State University	Henstock-Stieltjes integrals in locally convex spaces	Juniven P. Acapulco and Julius V. Benitez	76

### Lunch Break 12:00-13:30

Chair person: Hang-Chin Lai (National Tsing Hua University)						
MO-06	13:30	Lai-Jiu Lin	National Changhua University of Education	Variational inclusion problem with contraction point algorithms and its applications to multiple sets split feasible problems	Lai-Jiu Lin and Yu Dann Chen	77
MO-07	13:55	Hidefumi Kawasaki	Kyushu University	Fixed point theorems and related topics	Hidefumi Kawasaki	78
MO-08	14:20	Gue Myung Lee	Pukyong National University	Second-order subdifferentials and second-order optimality conditions for unconstrained optimization problems	Nguyen Huy Chieu, Gue Myung Lee and Nguyen Dong Yen	79
MO-09	14:45	Jae Hyuong Lee	Pukyong National University	On SOS-convex polynomial optimization problems	Vaithilingam Jeyakumar, Gue Myung Lee and Jae Hyuong Lee	80

### Coffee Break 15:10-15:30

Chair person: Lai-Jiu Lin (National Changhua University of Education)						
MO-10	15:30	Shin-Shin Kao	Chung Yuan Christian University	On the degree characterization for hamiltonian properties	Shin-Shin Kao, Hsun Su, Yuan-Kang Shih, and Shih-Yan Chen	81
MO-11	15:55	Chieh-Sen Huang	National Sun Yat-sen University	A fifth order multi-moment WENO scheme for hyperbolic conservation laws	Chieh Sen Huang and Feng Xiao	82
MO-12	16:20	Chung Chang	National Sun Yat-sen University	Estimating simultaneous confidence bands for the mean function: a wild bootstrap approach	Chung Chang, Todd Ogden and Xuejing Lin	83
MO-13	16:45	Yi-Hong Wang	National Cheng-Kung University	An introduction to solve eigenvalue problems in metamaterials	Yi-Hong Wang	84

### Oral presentations: October 13 at Advanced Education and Research Building G, Room G310

Chair person: Akinari Hoshi (Niigata University)						
MO-14	9:30	Hui Lv	Northeastern University	Robust normalization and guaranteed cost control for a class of uncertain singular Markovian jump systems via hybrid impulsive control	Hui Lv, Qingling Zhang and Xinggang Yan	85
MO-15	9:55	Yasunori Kimura	Toho University	A characterization of convergence for a sequence of subsets in geodesic spaces	Yasunori Kimura	86
MO-16	10:20	Jitsupa Deepho	King Mongkut's University of Technology Thonburi	Strong convergence of shrinking method for finding solution of split feasibility and fixed point problems	Jitsupa Deepho and Poom Kumam	87
MO-17	10:45	Mayumi Hojo	Shibaura institute of technology	Weak and strong convergence theorems for generalized nonlinear mappings in Hilbert spaces	Mayumi Hojo	88
MO-18	11:10	Toshikazu Watanabe	Nihon University	Note on the regularity of non-additive measures	Tamaki Tanaka, Syuuji Yamada, and Toshikazu Watanabe	89
MO-19	11:35	Jheng-Ting Wang	National Changhua University of Education	Stochastic approximation and its application to VaR and CVaR	Tsung-Lin Cheng Jheng-Ting Wang	90