

Japan - Latin America Academic Conference 2018 in Nikko

Workshop 6

Applied Mathematics, Modeling, Data Analytics & HPC

	name	University, Institution, company
	Cristóbal Guzmán	Pontificia Universidad Católica de Chile
	Alejandro Maass	Universidad de Chile
Co-chair	Eduardo Vera	Universidad de Chile
	Shu Nakamura	University of Tokyo
	Hiroyuji Morikawa	University of Tokyo

		09:00	~	09:20	Name	Title	
26-Sep	Registration	09:00	~	09:20			
	Joint Session of Workshops 3 & 6	09:20	~	09:30	Steffen Härtel & Alejandro Maass	Joint Session Introduction	
	Welcome and Opening Remarks	09:30	~	09:40	Ennio Vivaldi (UChile)	Transdisciplinary Research in Medicine & Engineering	
			09:40	~	10:00	Akira Hirose (UTokyo)	Human Heartbeat Detection/Monitoring System Employing Chirp Z-Transform and Time-Sequential Neural Prediction
	①		10:00	~	10:20	Pablo Irarrázaval (PUC)	Diffusion MRI and Machine Learning applied to MRI
	9:30-11:00		10:20	~	10:40	Shutaro Satake (TMDU)	A radiofrequency hot balloon catheter for the treatment of atrial fibrillation
			10:40	~	11:00	Horacio Sanson (Allm Inc. Japan)	Deep learning architectures for anomaly detection in medical images
	coffee break		11:00	~	11:30		Sehime-monogatari Convention hall
			11:30	~	11:55	Alejandro Jofré (UChile)	Stochastic Optimization and Games in Energy Markets
	②		11:55	~	12:20	Cristóbal Guzmán (PUC)	Parallelization and randomization in large-scale convex optimization
	11:30-13:00		12:20	~	12:45	Akiko Takeda (UTokyo)	Nonconvex sparse optimization by proximal difference-of-convex algorithm
			12:45	~	13:10	Naohi Nishimura (Kyoto Univ)	A fast direct solver for periodic transmission problems for the Helmholtz equation in 2D based on the multi-trace boundary integral equation
	Lunch		13:10	~	14:30		Sehime-monogatari Convention hall
			14:30	~	14:50	Axel Osses (UChile)	Some new developments of mathematical inverse problems
	③		14:50	~	15:10	Carlos Sing-Song (PUC)	A Gauss-Newton method for non-convex composite problems with applications to medical imaging
	14:30-16:00		15:10	~	15:30	Theerat Sakdejayont (UTokyo)	From Wireless To Internet of Things
			15:30	~	15:50	Eric Goles (UAI)	Social Segregation Models
coffee break		16:00	~	16:30		Sehime-monogatari Convention hall	
④		16:30	~	17:00	Alejandro Maass et al.	Open session with brainstorming discussion among all participants	
16:30-18:00		17:00	~	17:25	idem	idem	
		17:25	~	17:50	idem	idem	
Forum Logistics Announcements		17:50	~	18:00	Eduardo Vera		
27-Sep	Registration	09:00	~	09:20			
	Joint Session of Workshops 1 & 6	09:20	~	09:30	Andrés Escala & Eduardo Vera	Joint Session Introduction	
	Welcome and Opening Remarks	09:30	~	09:50	Ennio Vivaldi (UChile)	Transdisciplinary Research & Carén Initiative	
	⑤		09:50	~	10:20	Francisco Förster (UChile)	The Universe in a stream: the challenge of astronomical alert brokers
	9:30-11:00		10:20	~	10:40	Pablo Estévez (UChile)	Deep Learning for Image Sequence Classification of Astronomical Events
			10:40	~	11:00	Guillermo Cabrera (UdeC)	Deep learning in Astronomy and its application to transient detection within the ALeRCE system
	coffee break		11:00	~	11:30		Sehime-monogatari Convention hall
	⑥		11:30	~	12:00	Juan Velasquez (UChile)	An application for improving the website content by using web object's salience automatic detection
11:30-13:00		12:00	~	12:25	Yuta Umezu (Nagoya Inst Tech)	Selective Interference for Charge Point Detection in Multi-dimensional Sequences	
		12:25	~	12:05	Elwin van't Wout (PUC)	Boundary Element Methods for Multiple Wave Scattering	
Forum Logistics Announcements		12:50	~	13:00			
Lunch		13:00	~	14:30		Sehime-monogatari Convention hall	