Day 1 – July 3, 2019 (Rooms P)

08:00-09:00	Registration			
09:00-10:15	Welcome & Keynote #1 (Sidney Resnick) – Rooms P1 and P2			
10:15-10:45	Morning Tea			
	Stochastic Optimization	**Stochastic Networks**	**Queues**	**Stochastic Systems**
	Rooms P1 and P2	Room P3	Room P4	Room P5
10:45-12:15	**Stochastic Simulation Optimization**	**Stochastic Networks and Scaling Limits**	**Job Scheduling and Load Balancing in Queueing Systems**	**Stochastic Systems**
	Eunhye Song	*Amarjit Budhiraja*	*Onno Boxma & Jan-Pieter Dorsman*	*Mark Squillante & David D. Yao*
	Eunhye Song	Rami Atar	Ellen Cardinaels	Peter Taylor
	Raghu Pasupathy	Sayan Banerjee	Gal Mendelson	Pooja Agarwal
	Ben Feng	Amber Puha	Youri Raaijmakers	David D. Yao
	Barry Nelson	Ruth Williams	Jan-Pieter Dorsman	Eugene Feinberg
12:15-13:15	Lunch			
13:15-14:45	**Model Uncertainty and Simulation Optimization**	**Queueing Networks and Markov Chains**	**Strategic Behavior in Queues**	**Asymptotic Analysis in Stochastic Systems**
	Enlu Zhou	*Jim Dai*	*Moshe Haviv*	*Guodong Pang*
	Eunhye Song	Chang Cao	Kang Kang	Konstantin Borokov
	Huajie Qian	Michael Choi	Binyamin Oz	Yunan Liu
	Siyang Gao	Masakiyo Miyazawa	Jiesen Wang	Wei You
	Enlu Zhou		Moshe Haviv	Eyal Castiel
14:45-15:15	Afternoon Tea			
15:15-16:15	Keynote #2 (Nelly Litvak) – Rooms P1 and P2			
16:15-16:30	Mini Break			
16:30-18:00	**Efficiency in Stochastic Optimization and Simulation Experiments**	**Dynamic Investment and Stochastic Networks**	**Level-Dependent QBD Processes**	**Markov Chains**
	Henry Lam	*Agostino Capponi*	*Yonit Barron*	*Ivo Adan*
	Karthyek Murthy	Jiahui Ji	James Cordeiro	Stella Kapodistria
	Chang-Han Rhee	Xu Sun	Barbara Margolius	Alex Wickeham
	Harsha Honnappa	Peng Chu Chen	Yan Chen	Sarah Dendievel
	Huajie Qian	Guido Lagos	Yonit Barron	Ivo Adan
18:30-20:00	Celebrating Women in APS			

Day 1 – July 3, 2019 (Rooms M)

Registration					08:00-09:00
Welcome & Keynote #1 (Sidney Resnick) – Rooms P1 and P2					09:00-10:15
Morning Tea					10:15-10:45
Learning	**Rare Events and Simulation**	**Control**	**Applications**		
Room M1	Room M2	Rooms M5 and M6	Rooms M7 and M8		
Statistical Methods for Learning and Decision Making	**Rare Events and Distributionally Robust Optimization**	**Control and Simulation of Stochastic Systems**	**Stochastic Operations Research for Power Grids Applications**		10:45-12:15
Nan Ye	*Chang-Han Rhee*	*Jiheng Zhang*	*Alessandro Zocca*		
Shuwen Hu	Jose Blanchet	Xinyun Chen	Tongxin Li		
Yang Liu	Zhiyuan Huang	Junfei Huang	Randall Martyr		
Ryan Wu	Zhe Su	Jiheng Zhang	Andrès Ferragut		
Aaron Snoswell	Chang-Han Rhee	Peter Frazier	Alessandro Zocca		
Lunch					12:15-13:15
Learning and Bandits	**Approximating Rare Event Probabilities**	**Asymptotics and Control**	**Revenue, Service, and Inventory Management**		13:15-14:45
Sandeep Juneja	*Offer Kella*	*Asaf Cohen*	*Qiong Wang & Marty Reiman*		
Dan Russo	Adam Hamilton	Ayalvadi Ganesh	Zhenyu Hu		
Christina Lee Yu	Zdravko Botev	Henry Lam	Junfei Huang		
Rajesh Sundaresan	Krzysztof Bisewski	David Lipshutz	He Wang		
Sandeep Juneja	Offer Kella	Asaf Cohen			
Afternoon Tea					14:45-15:15
Keynote #2 (Nelly Litvak) – Rooms P1 and P2					15:15-16:15
Mini Break					16:15-16:30
Statistical and Computational Aspects of Modern Machine Learning Problems	**MCMC Algorithms**	**Control of Stochastic Systems**	**Applied Probability in Financial Engineering**		16:30-18:00
Fred Roosta-Khorasani	*Michael Choi*	*Hayriye Ayhan*	*Lingfei Li*		
Rixon Crane	Khai Xiang Au	Daniel F. Silva	Xinyun Chen		
Liam Hodgkinson	Andrew Black	Kristen Gardner	Xuefeng Gao		
Russell Tsuchida	Michael Choi	Natarajan Gautam	Gongqiu Zhang		
Ali Eshragh	Tan Hong Ming	Collin Drent	Lingfei Li		
Celebrating Women in APS					18:30-20:00

Day 2 – July 4, 2019

	Stochastic Optimization	Stochastic Networks	Queues	Stochastic Systems
	Rooms P1 and P2	Room P3	Room P4	Room P5
09:00-10:30	Tutorial #1	Asymptotic Behavior of Stochastic Systems	Many-Server Queues	Recent Advances in Stochastic Systems I
	Rhonda Righter & Kristy Gardner	*Peter Braunsteins*	*David Stanford*	*Jing Dong*
		Ross McVinish	Niffe Hermansson	Alessandro Arlotto
		Qingwei Liu	Lucas van Kreveld	Jim Dai
		Madelon de Kemp	Hiroshi Toyoizumi	Siva Maguluri
		Peter Braunsteins	David Stanford	Gal Mendelson
10:30-11:00	Morning Tea			
11:00-12:00	Keynote #3 (Ton Dieker) – Rooms P1 and P2			
12:00-13:00	Lunch			
13:00-14:30	Simulation, Risk, and Optimization	Stochastic Network Asymptotics	Queueing, Control, and Services	Recent Advances in Stochastic Systems II
	Raghu Pasupathy	*Rami Atar*	*Amy Ward*	*Alessandro Arlotto*
	Shane Henderson	Amarjit Budhiraja	Itai Gurvich	Jiaming Xu
	Anand Deo	David Lipshutz	Harsha Honnappa	Jing Dong
	Raghu Pasupathy	Kavita Ramanan	Wei You	Kuang Xu
	Jose Blanchet	Xinchang Xie	Pengyi Shi	Peng Sun
14:30-15:00	Afternoon Tea			
15:00-16:30	Open Problem Session	Large Scale Interacting Queueing Networks	Stochastic Models and Matching Queues	Approximations of Stochastic Processes
	Rami Atar & Harsha Honnappa	*Ayalvadi Ganesh*	*Pascal Moyal*	*Giang Nguyen & Oscar Peralta*
		Abishek Sankararaman	Amy Ward	Marijn Jansen
		Seva Shneer	Jan-Pieter Dorsman	Michel Mandjes
		Ilze Ziedins	Gideon Weiss	Giang Nguyen
		Ayalvadi Ganesh	Pascal Moyal	Oscar Peralta
18:00-21:00	Conference Dinner			

Day 2 – July 4, 2019

	Learning	Diffusions and Simulation	Control	Applications	
	Room M1	Room M2	Rooms M5 and M6	Rooms M7 and M8	
09:00-10:30	New Developments in Reinforcement Learning	Diffusions and Related Stochastic Processes	Optimal Stopping and Control	Healthcare I	**09:00-10:30**
	Mengzhou Liu	*Jiyeon Lee*	*David Goldberg*	*Zeynep Akşin Karaesmen*	
	Seungki Min	Rahul Jain	Dan Russo	Galit Yom-Tov	
	Haoran Wang	Cristina Costantini	Yilun Chen	Jinsheng Chen	
	Nan Chen	Stewart Ethier	David Goldberg	Lerzan Ormeci	
	Chen Chen	Jiyeon Lee	Maxime Grangereau	Sarah James	
10:30-11:00	Morning Tea				**10:30-11:00**
11:00-12:00	Keynote #3 (Ton Dieker) – Rooms P1 and P2				**11:00-12:00**
12:00-13:00	Lunch				**12:00-13:00**
13:00-14:30	Probabilistic Methods for Inference and Learning	Doubly Stochastic and State Dependent Queueing Models	Stochastic Optimal Control in Finance	Healthcare II	**13:00-14:30**
	Mohsen Bayati	*Andrew Daw*	*Duy-Minh Dang*	*Ad Ridder*	
	Joel Goh	Xuefeng Gao	Pieter Van Staden	Dennis Liu	
	Yoni Gur	Xu Sun	Yaowen Lu	Mark Fackrell	
	Dan Russo	Pamela Badian-Pessot	Hanwen Zhang	Nico van Dijk	
	Mohsen Bayati	Andrew Daw	Duy-Minh Dang	Ad Ridder	
14:30-15:00	Afternoon Tea				**14:30-15:00**
15:00-16:30	Learning in Sequential Decision Problems	Diffusions and Simulation	Monte Carlo Methods	Applications in Economics	**15:00-16:30**
	Dan Russo	*Vlad Margarint*	*Pierre L'Ecuyer*	*Nick Arnosti*	
	Mohsen Bayati	Cella García-Pareja	Ezra Akin	Minglong Zhou	
	Kuang Xu	Alex Shkolnik	Florian Bourgey	Behrooz Niknami	
	Devavrat Shah	Vlad Margarint	Pierre L'Ecuyer	Ellen Muir	
	Jussi Keppo			Nick Arnosti	
18:00-21:00	Conference Dinner				**18:00-21:00**

Day 3 – July 5, 2019

Time	Stochastic Optimization	Resource Allocation and Graphs	Queues	Stochastic Processes
09:00-10:00	Keynote #4 (Charles Bordenave) – Rooms P1 and P2			
10:00-10:30	Morning Tea			
	Rooms P1 and P2	Room P3	Room P4	Room P5
10:30-12:00	Tutorial #2 *Devavrat Shah*	Resource Allocation for Emerging Applications *Siva Theja Maguluri* Daniela Hurtado-Lange Pengyu Qian Martin Zubeldia Raga Gopalakrishnan	Approximations and Controls for Queues *Yunan Liu* Amy Ward Xin Liu Yunan Liu Xu Sun	Branching Random Walks *Sophie Hautphenne & Peter Braunsteins* Fabio Zucca Daniela Bertacchi Sophie Hautphenne Peter Braunsteins
12:00-13:00	Lunch			
13:00-14:30	Simulation Optimization *Shane Henderson* Dan Russo Enlu Zhou L. Jeff Hong Shane Henderson	Resource Allocation Models *Aleksandr Stolyar* Seva Shneer Yuan Zhong Kuang Xu Alexander Stolyar	Statistical Inference in Queueing Systems *Liron Ravner* Azam Asanjarani Liron Ravner Michel Mandjes	Recent Developments and Advances in Markov Decision Processes *Sandjai Bhulai & Floske Spieksma* Odysseas Kanavetas Sandjai Bhulai Qi-Ming He Floske Spieksma
14:30-15:00	Afternoon Tea			
15:00-16:30	Convex Optimization in Applied Probability *Chaithanya Bandi* Pengyu Qian Siva Theja Maguluri Gar Goei Loke Alexej Proskynitopoulos	Asymptotics and Algorithms on Random Graphs *Mariana Olvera-Cravioto* Junyu Cao Nicolas Fraiman Sayan Banerjee Mariana Olvera-Cravioto	Queueing and Scheduling *John Hasenbein* Ivo Adan Rhonda Righter John Hasenbein Gideon Weiss	Jump Markov Processes *Eugene Feinberg* Michael Katehakis Floske Spieksma Eugene Feinberg
16:30-17:00	Cake and Farewell			

Day 3 – July 5, 2019

Time	Learning	Statistics	Service Systems and Markov Chains	Applications	Time
09:00-10:00	Keynote #4 (Charles Bordenave) – Rooms P1 and P2				09:00-10:00
10:00-10:30	Morning Tea				10:00-10:30
	Room M1	Room M2	Rooms M5 and M6	Rooms M7 and M8	
10:30-12:00	Information and Learning in Stochastic Systems *Yuan Zhong* Kuang Xu Alessandro Arlotto Dan Russo Vijay Kamble	Statistics and Stochastic Processes *Sarat Moka* Lijing Ma Angus Lewis Laleh Tafakori Sarat Moka	Matching and Compensation *Jussi Keppo* Simon Loertscher Satyanath Bhat Andrew Lim Irene Lo	Ecology/ Block Chain *Rhys Bowden* David Warne Cody Nitschke Max Wurm Rhys Bowden	10:30-12:00
12:00-13:00	Lunch				12:00-13:00
13:00-14:30	Learning, Optimization and Applied Probability *Harsha Honnappa* Sandeep Juneja Siva Theja Maguluri Zeyu Zheng Raghu Pasupathy	Large-Scale Inference and High-Dimensional Statistics *Wen Sun* Peter Radchenko Yunjin Choi Yin Xia Robert Cope	Storage Processes and Markov Chains *Jaron Sanders* Royi Jacobovic Eleonora Deiana Ankan Ganguly Jaron Sanders	Stochastic Modeling and Control in Healthcare and Service Operations *Pengyi Shi* Xiaoshan Peng Yunan Liu Jing Dong Pengyi Shi	13:00-14:30
14:30-15:00	Afternoon Tea				14:30-15:00
15:00-16:30	Learning in Service Systems *Stella Kapodistria* Yannik Peeters Zahra Saberi Stella Kapodistria	Random Walks/ Dynamic Markets *Ruiting Zuo* Vyacheslav Abramov Masahiro Kobayashi Ellen Muir Ruiting Zuo	Analysis of Computing and Service Systems *Sherwin Doroudi* Jazeem Abdul Jaleel Kayla Javier Kristen Gardner Sherwin Doroudi	Stochastic Modeling for Service Systems *Nilay Tanik Argon & Lerzan Ormeci* Rik W. Timmerman Huiyin Ouyang Zhankun Sun Lerzan Örmeci	15:00-16:30
16:30-17:00	Cake and Farewell				16:30-17:00