

The 19th International Symposium on Stabilization, Safety, and Security (SSS 2017)

Boston University Photonics Center, Massachusetts, USA

November 5-8, 2017

Tentative Technical Program

Sunday, No	Sunday, November 5th: Workshops Technical Program		
	HO 206, PHO 210, PHO 211		
Time	Program	Location	
8:00-8:45	On-Site Registration	2nd floor atrium	
8:45-9:00	Conference Opening		
9:00-10:00	Morning Tutorial		
	Tutorial on Principles of Fog Computing and Algorithmic Methods (POFOA)		
10:00-10:30	Coffee Break	2nd floor atrium	
10:30-12:00	Morning Tutorial		
	Tutorial on Principles of Fog Computing and Algorithmic Methods (POFOA)		
12:00-13:30	Lunch Break	PHO 906 – East End Lounge	
13:30-14:30	Afternoon Workshops		
	1st Workshop on Storage, Control, Networking in Dynamic Systems (SCNDS)		
	Elegance in Computation - A Salute to The Legacy of Prof. Mohamed Gouda		
14:30-15:00	Coffee Break	2nd floor atrium	
15:00-17:00	Afternoon Workshops		
	1st Workshop on Storage, Control, Networking in Dynamic Systems (SCNDS)		
	Elegance in Computation - A Salute to The Legacy of Prof. Mohamed Gouda		
18:00-	SSS 2017 Conference Reception	West End Lounge	

Session 2 Self-Stabilizing Rendezvous of Synchronous Mobile Agents in Graphs Fukuhito Oshita, Ajoy K. Datta and Toshimitsu Masuzawa 11:50-12:00 Break Session 1 Session 1 Sension 1 Session 2 Self-Stabilizing Center Finding Algorithms in Chains and Trees Yuich Sudo, Ajoy K. Datta, Lawrence Larmore and Toshimitsu Masuzawa 12:00-13:00 Chair: Ari Trachtenberg, Boston University, USA Self-Stabilizing Rendezvous of Synchronous Mobile Agents in Graphs Fukuhito Ooshita, Ajoy K. Datta and Toshimitsu Masuzawa 11:50-12:00 Self-Stabilizing Rendezvous of Synchronous Mobile Agents in Graphs Fukuhito Ooshita, Ajoy K. Datta and Toshimitsu Masuzawa 11:50-12:00 Self-Stabilizing Center Finding Algorithms in Chains and Trees Yuichi Sudo, Ajoy K. Datta, Lawrence Larmore and Toshimitsu Masuzawa 12:00-13:00 Lunch Break PHO 906 East End Lounge 13:00-14:40 Session 2 Chair: Chryssis Georgiou, University of Cyprus 13:00-13:30 Cryptocurrency Smart Contracts for Distributed Consensus of Public Randomness Peter Mell, John Kelsey and James Shook 13:30-14:00 Bitcoin a Distributed Shared Register Emmanuelle Anceaume, Romaric Ludinard, Maria Potop-Butucaru and Frédéric Tronel 14:00-14:30 Scalable Funding of Bitcoin Micropayment Channel Networks Conrad Burchert, Christian Decker and Roger Wattenhofer Wattenhofer Wattenhofer Christian Decker and Roger Wattenhofer Wattenhofer Wattenhofer Wattenhofer Wattenhofer Wattenhofer Wattenhofer Wattenhofer Channel Networks Conrad Surchert, Christian Decker and Roger Wattenhofer Wattenhofe			
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14:20 14:40 Priof Appaulagement: ZaraPlack: Timestama		1	
14.30-14.40 Dhei Aimouncement. Zerodiock. Hittestamp-	14:30-14:40	Brief Announcement: ZeroBlock: Timestamp-	

	Free Prevention of Block-Withholding Attack in	
	Bitcoin Sigmaly Solat and Maria Poton Butugary	
14:40-15:00	Siamak Solat and Maria Potop-Butucaru	9th floor
14:40-15:00	Coffee Break	atrium
45.00 47.00	Consists 2	lounge
15:00-17:00	Session 3	PHO 906
	Chair: Paola Flocchini, University of Ottawa, Canada	
15:00-15:30	A Self-Stabilizing General De Bruijn Graph	
	Michael Feldmann and Christian Scheideler	
15:30-16:00	A fully asynchronous and fault tolerant distributed	
	algorithm to compute a minimum graph	
	orientation	
	Noël Gillet and Nicolas Hanusse	
16:00-16:30	Universally Optimal Gathering under Limited	
10.00 10.00	Visibility	
	Pavan Poudel and Gokarna Sharma	
16:30-17:00	Constant-Time Complete Visibility for	
	Asynchronous Robots with Lights	
	Gokarna Sharma, Ramachandran Vaidyanathan	
	and Jerry Trahan	
17:00-	Business Meeting	
Tuesday, N	ovember 7th: Symposium Technical Progr	am
Time	Program	Location
8:00-8:45	On-Site Registration	PHO 906
8:45-9:00	Conference Opening	PHO 906
9:00-10:00	Keynote 2: Robust ant colony algorithms:	PHO 906
	Density estimation and house-hunting	
	Speaker: Nancy Lynch, MIT; USA	
10:10-10:20	Coffee Break	9th floor
		atrium
		lounge
10:20-12:20	Session 4	PHO 906
	Session Chair: Emmanuelle Anceaume, IRISA,	
	RENNES, France	
10:20-11:10	The Dynamics and Stability of Probabilistic	
	Population Processes	
	Population Processes Ioannis Chatzigiannakis and Paul Spirakis	
11:10-11:40	Population Processes Ioannis Chatzigiannakis and Paul Spirakis Computing the Fault-Containment Time of Self-	
11:10-11:40	Population Processes Ioannis Chatzigiannakis and Paul Spirakis Computing the Fault-Containment Time of Self-Stabilizing Algorithms using Markov Chains and	
11:10-11:40	Population Processes Ioannis Chatzigiannakis and Paul Spirakis Computing the Fault-Containment Time of Self-Stabilizing Algorithms using Markov Chains and Lumping	
	Population Processes Ioannis Chatzigiannakis and Paul Spirakis Computing the Fault-Containment Time of Self-Stabilizing Algorithms using Markov Chains and Lumping Volker Turau	
11:10-11:40	Population Processes Ioannis Chatzigiannakis and Paul Spirakis Computing the Fault-Containment Time of Self-Stabilizing Algorithms using Markov Chains and Lumping Volker Turau Space-Optimal Proportion Consensus with	
	Population Processes Ioannis Chatzigiannakis and Paul Spirakis Computing the Fault-Containment Time of Self-Stabilizing Algorithms using Markov Chains and Lumping Volker Turau Space-Optimal Proportion Consensus with Population Protocols	
11:40-12:10	Population Processes Ioannis Chatzigiannakis and Paul Spirakis Computing the Fault-Containment Time of Self-Stabilizing Algorithms using Markov Chains and Lumping Volker Turau Space-Optimal Proportion Consensus with Population Protocols Gennaro Cordasco and Luisa Gargano	
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12:20-13:20	Lunch Break	PHO 906
12.20-13.20	Lunch bleak	– East
		End
		Lounge
13:20-15:00	Session 5	PHO 906
	Chair: Ioannis Chatzigiannakis, Sapienza	
	University of Rome, Italy	
13:20-13:50	Robust Routing Made Easy	
	Christoph Lenzen and Moti Medina	
13:50-14:20	Cover Time in Edge-Uniform Stochastically-	
	Evolving Graphs	
	Ioannis Lamprou, Russell Martin and Paul	
44.00.44.50	Spirakis	
14:20-14:50	How to simulate message-passing algorithms in	
	mobile agent systems with faults Tsuyoshi Gotoh, Fukuhito Ooshita, Hirotsugu	
	Kakugawa and Toshimitsu Masuzawa	
14:50-15:00	Brief Announcement: Asynchronous, Distributed	
	Optical Mutual Exclusion	
	Ahmed Mansour, Ramachandran Vaidyanathan	
	and Shuangqing Wei	
15:00-15:20	Coffee Break	9th floor
		atrium
		lounge
15:20-17:00	Session 6	PHO 906
	Chair: Toshimitsu Masuzawa, Osaka	
45,00 45,50	University, Japan	
15:20-15:50	Self-stabilizing localization of the middle point of a line segment by an oblivious robot with limited	
	visibility	
	Akihiro Monde, Yukiko Yamauchi, Shuji Kijima	
	and Masafumi Yamashita	
15:50-16:20	Fault-Induced Dynamics of Oblivious Robots on a	
	Line	
	Jean-Lou De Carufel and Paola Flocchini	
16:20-16:50	ASSESS: A Tool for Automated Synthesis of	
	Distributed Self-Stabilizing Algorithms	
	Fathiyeh Faghih and Borzoo Bonakdarpour	
16:50-17:00	Brief Announcement: Optimal Asynchronous	
	Rendezvous for Mobile Robots with Lights	
	Takashi Okumura, Koichi Wada and Yoshiaki Katayama	
18:00-	SSS 2017 Conference Banquet	Barrister
	200 2011 Comorollos Ballquot	Hall, Law
		Building
Wednesday	, November 8th: Symposium Technical Pr	
Time	Program	Location
8:30-9:30	Keynote 3: The Dynamics of Initial Coin	PHO 906
	Offerings	
	Speaker: Christian Catalini, MIT; USA	
9:30-9:50	Coffee Break	9th floor
		atrium

		lounge
9:50-12:00	Session 7	PHO 906
	Chair: Maria Potop-Butucaru, UPMC Sorbonne Universités, France	
9:50-10:20	Broadcast Encryption with Both Temporary and	
	Permanent Revocation	
	Dan Brownstein, Shlomi Dolev and Niv Gilboa	
10:20-10:50	Proof-Labeling Schemes: Broadcast, Unicast and	
	In Between	
10:50-11:20	Boaz Patt-Shamir and Mor Perry Self-stabilizing Distributed Stable Marriage	
10.30-11.20	Marie Laveau, George Manoussakis, Joffroy	
	Beauquier, Thibault Bernard, Janna Burman,	
	Johanne Cohen and Laurence Pilard	
11:20-11:50	On Security Analysis of Proof-of-Elapsed-Time	
	(PoET)	
	Lin Chen, Lei Xu, Nolan Shah, Zhimin Gao, Yang	
	Lu and Weidong Shi	
11:50-12:00	Brief Announcement: Federated Code Auditing	
	and Delivery for MPC	
	Frederick Jansen, Kinan Dak Albab, Andrei	
10.00.10.00	Lapets and Mayank Varia	DI 10 000
12:00-13:00	Lunch Break	PHO 906
		– East
		End Lounge
13:00-14:40	Session 8	PHO 906
10.00 14.40	Chair: Taisuke Izumi, Nagoya Institute of	1110 300
	Technology, Japan	
13:00-13:30	Ant-Inspired Dynamic Task Allocation via	
	Gossiping	
	Hsin-Hao Su, Lili Su, Anna Dornhaus and Nancy	
12.22.11.22	Lynch	
13:30-14:00	Relaxed Data Types as Consistency Conditions	
44.00 44.00	Edward Talmage and Jennifer Welch	
14:00-14:30	Self-Tuning Eventually-Consistent Data Stores Shankha Chatterjee and Wojciech Golab	
14:30-14:40	Brief Announcement: A self-stabilizing algorithm	
14.50-14.40	for the minimal generalized dominating set	
	problem Hisaki Kobayashi, Hirotsugu Kakugawa	
	and Toshimitsu Masuzawa	
14:40-15:00	Coffee Break	9th floor
		atrium
		lounge
15:00-16:40	Session 9	PHO 906
45.00 45.00	Chair: Koichi Wada, Hosei University, Japan	
15:00-15:30	An Efficient Silent Self-Stabilizing 1-Maximal	
	Matching Algorithm under Distributed Daemon for	
	Arbitrary Networks Michiko Inoue, Fukuhito Ooshita and Sebastien	
	Tixeuil	
15:30-16:00	TorBricks: Blocking-Resistant Tor Bridge	
0.00-10.00		

	Distribution	
	Mahdi Zamani, Jared Saia and Jedidiah Crandall	
16:00-16:30	Optimum Algorithm for Mutual Visibility among	
	Asynchronous Robots with Lights	
	Subhash Bhagat and Krishnendu	
	Mukhopadhyaya	
16:30-16:40	Brief Announcement: Space-efficient Uniform	
	Deployment of Mobile Agents in Asynchronous	
	Unidirectional Rings	
	Masahiro Shibata, Hirotsugu Kakugawa and	
	Toshimitsu Masuzawa	
16:40-16:50	Concluding Remarks	PHO 906