	Day 1: September 18, Monday (Workshops and Tutorials)					
Time		Location	Session Type	Sesion Title	Speakers	Description
8:00 -	- 17:00	TBD	Registration	Registration Desk		Please check in at our registration desk to pick up your name badge and for on-site registration
9:00 -	- 17:30	TBD	Concurrent Breakout Sessions	Doctoral Symposium	Keyntoe Speaker: H.J. Siegel, Colorado State University	
9:00 -	- 15:30		Concurrent Breakout Sessions	Automation of Cloud Configuration and Operations (ACCO) Workshop	1) Workflow Automation for Partially Hosted Cloud Services, Hanin Abubaker and Khaled Salah 2) BDLaaS: Big Data Lab as a Service for Experimenting Big Data Solution, Yehia Taher, Rafiqui Haque and Mohand-Said Hacid 3) Autonomic Cross-Layer Management of Cloud Resources Framework, Cihan Tunc, Farah Fargo, Youssif Al-Nashif and Salim Hariri 4) Autonomic Fall Detection Systems, Ahmet Turan Özdemir, Cihan Tunc and Salim Hariri 5) Enabling Multi-level Data Fault Tolerance on Software-Defined Storage System, Shuo-Han Chen, Chang Yung-Chun, Tseng-Yi Chen, Tsan-Sheng Hsu, Hsin-Wen Wei and Wei-Kuan Shih 6) Into the Storm: Descrying Optimal Configurations using Genetic Algorithms and Bayesian Optimization, Michael Trotter, Grace Liu and Timothy Wood 7) A Host-Agnostic, Supervised Machine Learning Approach to Automated Overload Detection in Virtual Machine Workloads, Eli Dow and Jeanna Matthews 8) An incremental approach to data integration in presence of access control policies, Mokhtar Sellami, Mohand-Said Hacid and Mohamed Mohsen Gammoudi	
	- 17:30		Concurrent Breakout Sessions	2nd eCAS Workshop on Engineering Collective Adaptive Systems (eCAS 2017)		
10:30) - 11:00		Coffee Break			
) - 17:30		Concurrent Breakout Sessions	1st Workshop on Autonomic Management of Large Scale Container-based Systems (AMLCS)	1) FID:A Faster Image Distribution System For Docker Platform, Kangjin Wang, Yong Yang, Ying Li, Hanmei Luo and Lin Ma 2) In Search of the Ideal Storage Configuration for Docker Containers, Vasily Tarasov, Lukas Rupprecht, Dimitrios Skourtis, Amit Warke, Dean Hildebrand, Mohamed Mohamed, Nagapramod Mandagere, Wenji Li, Ming Zhao and Raju Rangaswami 3) Auto-scaling of containers: the impact of relative and absolute metrics, Emiliano Casalicchio and Vanessa Perciballi 4) Quality of Service models for Micro-services and their integration into the SWITCH IDE, Polona Stefanič, Matej Cigale, Andrew Jones and Vlado Stankovski 5) SWITCHing from multi-tenant to event-driven videoconferencing services, Jernej Trnkoczy, Uroš Paščinski, Sandi Gec and Vlado Stankovski	
12:30) - 14:00		Luncheon	Lunch		
14:00) - 17:30		Concurrent Breakout Sessions	International Workshop on Autonomic Systems for Big Data Analytics (ASBDA 2017)	Integrating Short History for Improving Clustering Based Network Traffic Anomaly Detection, Philippe Owezarski and Juliette Dromard Tracing Distributed Data Stream Processing Systems, Zoltán Zvara, Péter Szabó, Gábor Hermann and Andras A. Benczur Fraud Analysis Approaches in the Age of Big Data - A Review of State of the Art, Sara Makki, Raffqul Haque, Yehia Taher, Zainab Assaghir, Gregory Ditzler, Mohand-Saïd Hacid and Hassan Zeineddine	
14:00) - 17:30		Concurrent Breakout Sessions	3rd International Workshop on Data- driven Self-regulating Systems (DSS 2017)		
18:00) - 20:00	The University of Arizona, Student Union	Welcoming Event	Welcome Reception		

Day 1

	Day 2: September 19, Tuesday (ICCAC 2017 and SASO 2017)								
	Time	Location	Session Type	Sesion Title	Speakers	Description			
5 5 2 3 3 3 3 3 3	8:00 - 17:00		Registration	Registration Desk		Please check in at our registration desk to pick up your name badge and for on-site registration			
	9:00 - 9:30		Welcoming Event	Welcome Address by ICCAC and SASO Chairs					
	9:30 - 10:30		Plenary Session	Keynote 1	Prof. Geoffrey West, Santa Fe Institute, USA	"The Simplicity and Unity Underlying the Complexity of Life from Growth and Innovation to Mortality, Sustainability and the Pace of Life in Organisms, Cities and Companies"			
	10:30 - 11:00		Coffee Break						
	11:00 - 12:30			ICCAC Session 1: Autonomic Cloud Computing - I	A Black-box Approach for Detecting Systems Anomalies in Virtualized Environments, Olumuyiwa Ibidunmoye, Ewnetu Bayuh Lakew and Erik Elmroth 2) An Autonomic Cloud Application Placement Tool Based on Cost Criteria, Nabil Abdennadher Towards Designing Cost-Optimal Policies to Utilize IaaS Clouds under Online Learning, Xiaohu Wu, Patrick Loiseau and Esa Hyytia				
	11:00 - 12:30		Concurrent Breakout Sessions	SASO Session 1: Networks	Self-organized Coverage Optimisation in Smart Camera Networks, Lukas Esterle Self-stabilising target counting in wireless sensor networks using Euler Integration, Danilo Pianini, Mirko Viroli, and Simon Dobson PacketSkip: Skip Graph for Multidimensional Search in Structured Peer-to-Peer Systems, Andreas Disterhöft, Andreas Funke, and Kalman Graffi				
	12:30- 14:00		Luncheon	Lunch					
	14:00 - 15:30		Plenary Session	Panel	Moderator: H.J. Siegel, Colorado State University	Panel Title: Digital Convergence: What Academic Cloud, Autonomic, Self-Adaptive, and Self-Organizing Research is Useful for Industry in the Short and Long Term? Panelists: Ilkay Altintas, University of California at San Diego Fredricka Darema, US AFOSR (Air Force Office of Scientific Research) Salima Hassas, University of Lyon Heiko Ludwig, IBM Almaden Naveen Sharma, Rochester Institute of Technology Conrad S. Tucker, The Atlantic Council			
	16:00 - 17:30		Plenary Session	Posters, Demos, and Reception					

Day 3: September 20, Wednesday (ICCAC 2017 and SASO 2017)						
Time	Location	Session Type	Sesion Title	Speakers	Description	
9:00 - 17:00		Registration	Registration Desk		Please check in at our registration desk to pick up your name badge and for on-site registration	
9:30 - 10:30		Plenary Session	Keynote 2	Dr. Lalit K. Mestha, Principal Engineer, GE Global Research, New York, USA	"Industrial Immune Response to Cyberattacks - Is this even possible?"	
10:30 - 11:00		Coffee Break				
11:00 - 12:30			ICCAC Session 2: Autonomic Cloud Computing - II	This a Scheduling Algorithm for Meeting the Latency Requirements of Bursty I/O Streams at User-Specified Percentiles, Yipkei Kwok, Patricia Teller and Sarala Arunagiri Secada: Predicting Virtual Machine Network Bandwidth Demands for Elastic Provisioning in laaS Clouds, Jonatas A Marques and Rafael R Obelheiro 3) Analysis and Autonomic Elasticity Control for Multi-Server Queues Under Traffic Surges, Venkat Tadakamala and Daniel Menasce		
11:00 - 12:30			and Institutions	Interactional Justice and Self-Governance of Open Self-Organising Systems. Jeremy Pitt 2) A Requirements Model for Adaptive Multi-Organizational Systems, Mahmut Tamersoy, Erdem Eser Ekinci, R. Cenk Erdur, and Oguz Dikenelli		
12:30 - 14:00		Luncheon	Lunch			
14:00 - 15:30		Concurrent Breakout Sessions	Aspects of Cloud, Fog and Edge	A Cloud-assisted Tree-based P2P System for Low Latency Streaming, Lucas Provensi, Frank Eliassen and Roman Vitenberg Autonomic Identity Framework for the Internet of Things, Xiaoyang Zhu, Youakim Badr, Jesus Pacheco and Salim Hariri		
14:00 - 15:30			SASO Session 3: Resource and Network Management	Xor-Based Topology Management Beyond Kademlia, Erick Lavoie, Miguel Correia, and Laurie Hendren Sesource Adaptation via Test-Based Software Minimization, Arpit Christi, Alex Groce, and Rahul Gopinath Self-Adaptive Safe Provisioning of Wireless Power using DCOPs, Coen van Leeuwen, Sinan Yildirim, and Przemyslaw Pawelczak		
15:30 - 16:00		Coffee Break				
16:00 - 17:30		Concurrent	Protection Techniques of	SDR-based Resilient Wireless Communication, Firas Almoualem, Pratik Satam, Jang-Geun KI and Salim Hariri Autoinfotainment Security Development Framework (ASDF) for Smart Cars, Pratik Satam, Jesus Pacheco and Salim Hariri Self-Protection Agent using Error Correcting Output Codes to Secure Computers and Applications, Fabian De La Pena Montero, Salim Hariri and Gregory Ditzler		
19:0	Old Tucson	Conference Dinner			Old Tucson is a movie studio and theme park just west of Tucson, Arizona, adjacent to the Tucson Montains and close to the western portin of Saguaro National Park. It was original built in 1939 by Columbia Pictures on a Pima County-owned site as a replica of 1860's Tucson for the movie Atizona, starring William Holden and Jean Arthur. http://oldtucson.com/	

10:30 - 11:00 Coffee Break 1 Runtime modifications of Spart data processing pipelines, Elena Lazovik, Concurrent Breakout Sessions Concurrent B		Day 4: September 21, Thursday (ICCAC 2017 and SASO 2017)							
10:30 10:3	Time	Location	Session Type	Sesion Title	Speakers				
Concurrent Breakout Sessions CCAC Session 5: Autonomic Computing Systems, Tools and Applications - I 1, Burtime modifications of Spark data processing pipelines. Elema Lazovik, Michel Mediema, Toon Alberts, August and Alexander Lazovik Michel Mediema, Toon Alberts, August and Parameter Lazovik (and the Michel Medieman) 1, Michel Medieman, Toon Alberts, Autonomic Management of 3D Cardiac Simulations, Efisan Esmail, All Akoglu, Oreging Distaction I, T. Vijaysumar and Mininka Kulkami (3) Autonomic Management of 3D Cardiac Simulations, Efisan Esmail, All Akoglu, Oreging Distaction I, T. Vijaysumar and Mininka Kulkami (3) Autonomic Management of 3D Cardiac Simulations, Efisan Esmail, All Akoglu, Oreging Distaction I, T. Vijaysumar and Mininkami (4) Autonomic Management of 3D Cardiac Simulations, Efisan Esmail, All Akoglu, Oreging Distaction I, T. Vijaysumar and Mininkami (4) Autonomic Management of 3D Cardiac Simulations, Efisan Esmail, All Akoglu, Oreging Distaction I, T. Vijaysumar and Mininkami (4) Autonomic Management of 3D Cardiac Simulations, Efisan Esmail, All Akoglu, Oreging Distance State and Dynamic Environments using Robot Swams, 2D Composition of Spatial Seal Healing Gradients, Gorigio Audrito, Roberto Casade, Ferruccio Damiani, and Mininkami and Human and Spatial Sp	9:30 - 10:30		Plenary Session	Keynote 2	Prof. David Garlan, Carnegie Mellon University, USA	"Human-machine synergy: Bringing humans and autonomy into balance"			
Concurrent Breakout Sessions	10:30 - 11:00		Coffee Break						
SASO Session 5: Fundamentals of Self-Adaptation Session 5: Fundamentals of Self-Adaptation Self-Adaptive Self-Adaptation Self-Adaptive Self-Adaptive Self-Adaptation Self-Adaptation Self-Adaptive Self-Ada	11:00 - 12:30		Breakout	ICCAC Session 5: Autonomic Computing Systems, Tools and Applications - I	Michel Medema, Toon Albers, Erik Langius and Alexander Lazovik 2) Efficient Collaborative Approximation in MapReduce Without Missing Rare Keys, Nitin, Mithuna Thottethodi, T N Vijaykumar and Milind Kulkarni 3) Autonomic Management of 3D Cardiac Simulations, Ehsan Esmaili, Ali Akoglu,				
14:00 - 15:30 Concurrent Breakout Sessions Concurrent Breakout S	11:00 - 12:30		Breakout	SASO Session 5: Fundamentals of Self-Adaptation	Yara Khaluf 2) Compositional Blocks for Optimal Self-Healing Gradients, Giorgio Audrito, Roberto Casadei, Ferruccio Damiani, and Mirko Viroli 3) Multi-level control mechanisms for non-structured and structured 2- dimensional self-assembling,				
Concurrent Breakout Sessions Computing Systems, Tools and Applications - II PC Systems, Nirmal Kumbhare, Cihan Tunc, Dylan Machovec, Ali Akoglu, Salim Harrir and Howard pay Siegel 2) Application-Specific Autonomic Cache Tuning for General Purpose GPUs, Sam Gambine Sessions Computing Systems, Tools and Applications - II Design Framework for Reliable Multiple Autonomic Loops in Smart Environments, Adja Ndeye Sylla, Maxime Louvel, Eric Rutten and Gwenaël Delaval Design Framework for Reliable Multiple Autonomic Loops in Smart Environments, Adja Ndeye Sylla, Maxime Louvel, Eric Rutten and Gwenaël Delaval Design Framework for Reliable Multiple Autonomic Loops in Smart Environments, Adja Ndeye Sylla, Maxime Louvel, Eric Rutten and Gwenaël Delaval Design Framework for Reliable Multiple Autonomic Loops in Smart Environments, Adja Ndeye Sylla, Maxime Louvel, Eric Rutten and Gwenaël Delaval Design Framework for Reliable Multiple Autonomic Loops in Smart Environments, Adja Ndeye Sylla, Maxime Louvel, Eric Rutten and Gwenaël Delaval Design Overview, Cihan fundaments of Software Systems, Autonomic Loops in Smart Environments, Adja Ndeye Sylla, Maxime Louvel, Eric Rutten and Gwenaël Delaval Design Overview, Cihan fundaments of Software Systems, Autonomic Loops in Smart Environments, Adja Ndeye Sylla, Maxime Louvel, Eric Rutten and Gwenaël Delaval Design Overview, Cihan fundaments of Software Systems, Autonomic Loops in Smart Environments, Adja Ndeye Sylla, Maxime Louvel, Eric Rutten and Gwenaël Delaval Design Overview, Cihan fundaments of Software Systems, Autonomic Loops in Smart Environment and Manish Parasahar Design Overview, Cihan fundaments of Software Systems as a Service (rDaas): A Design Overview, Cihan func, Salim Hariri and Youakim Badr Dipon DDAS Design Overview, Cihan func, Salim Hariri and Youakim Badr Dipon DDAS Design Overview, Cihan func, Salim Hariri and Youakim Badr Design Overview, Cihan func, Salim Hariri and Youakim Badr Design Overview, Cihan func, Salim Hariri	12:30 - 14:00		Luncheon	Lunch					
SASO Session 6: Fundamentals of Self-Adaptation Sessions SASO Session 6: Fundamentals of Self-Adaptation SASO Session 6: Fundamentals of Self-Adaptation Concerns in Self-Adaptive System Code, Sharmin Jahan, Allen Marshall, and Rose Gamble 3) Identifying Self-Organization and Adaptive Systems, Complex Adaptive Systems, Lachlan Birdsey, Claudia Szabo, and Katrina Falkner 1) Cybersecurity Policies and their Impact on Dynamic Data Driven Application Systems, Conrad Tucker, Mathew Burrows, Kevin Lesniak and Samuel Klein 2) Pulsar: Enabling Dynamic Data-driven IoT Applications, Eduard Renart, Daniel Balouek-Thomert and Manish Parashar 3) DDDAMS-based Border Surveillance and Crowd Control via Aerostats, UAVs, and Ground Sensors, Seunghan Lee, Sara Minaeian, Yifei Yuan, Jian Liu and Young-Jun Son 4) Resilient Dynamic Data Driven Application Systems as a Service (rDaaS): A Design Overview, Cihan Tunc, Salim Hariri and Youakim Badr SHIPMENT Framework to Support DDDAS	14:00 - 15:30		Breakout	ICCAC Session 6: Autonomic Computing Systems, Tools and Applications - II	HPC Systems, Nirmal Kumbhare, Cihan Tunc, Dylan Machovec, Ali Akoglu, Salim Hariri and Howard Jay Siegel 2) Application-Specific Autonomic Cache Tuning for General Purpose GPUs, Sam Gianelli, Edward Richter, Diego Jimenez, Hugo Valdez, Tosiron Adegbija and Ali Akoglu 3) Design Framework for Reliable Multiple Autonomic Loops in Smart Environments, Adja Ndeye Sylla, Maxime Louvel, Eric Rutten and Gwenaël				
1) Cybersecurity Policies and their Impact on Dynamic Data Driven Application Systems, Conrad Tucker, Mathew Burrows, Kevin Lesniak and Samuel Klein 2) Pulsar: Enabling Dynamic Data-driven IoT Applications, Eduard Renart, Daniel Balouek-Thomert and Manish Parashar 3) DDDAMS-based Border Surveillance and Crowd Control via Aerostats, UAVs, and Ground Sensors, Seunghan Lee, Sara Minaeian, Yifei Yuan, Jian Liu and Young-Jun Son 4) Resilient Dynamic Data Driven Application Systems as a Service (rDaaS): A Design Overview, Cihan Tunc, Salim Hariri and Youakim Badr 5) High Performance Machine Learning (HPML) Framework to Support DDDAS	14:00 - 15:30		Breakout	SASO Session 6: Fundamentals of Self-Adaptation	Software Systems, Martin Weißbach, Philipp Chrszon, Thomas Springer, and Alexander Schill 2) Embedding Verification Concerns in Self-Adaptive System Code, Sharmin Jahan, Allen Marshall, and Rose Gamble 3) Identifying Self-Organization and Adaptability in Complex Adaptive Systems,				
Concurrent Breakout Sessions CONCURRENT Balouek-Thomert and Manish Parashar 3) DDDAMS-based Border Surveillance and Crowd Control via Aerostats, UAVS, and Ground Sensors, Seunghan Lee, Sara Minaeian, Yifei Yuan, Jian Liu and Young-Jun Son 4) Resilient Dynamic Data Driven Application Systems as a Service (rDaaS): A Design Overview, Cihan Tunc, Salim Hariri and Youakim Badr 5) High Performance Machine Learning (HPML) Framework to Support DDDAS	15:30 - 16:00		Coffee Break						
Akoglu	16:00 - 17:30		Breakout	ICCAC Session: Dynamic Data Driven Application Systems	Systems, Conrad Tucker, Mathew Burrows, Kevin Lesniak and Samuel Klein 2) Pulsar: Enabling Dynamic Data-driven IoT Applications, Eduard Renart, Daniel Balouek-Thomert and Manish Parashar 3) DDDAMS-based Border Surveillance and Crowd Control via Aerostats, UAVs, and Ground Sensors, Seunghan Lee, Sara Minaeian, Yifei Yuan, Jian Liu and Young-Jun Son 4) Resilient Dynamic Data Driven Application Systems as a Service (rDaa5): A Design Overview, Cihan Tunc, Salim Hariri and Youakim Badr 5) High Performance Machine Learning (HPML) Framework to Support DDDAS Decision Support Systems: Design Overview, Gregory Ditzler, Salim Hariri and Ali				
17:30 - 18:00 Closing Session	17:30 - 18:00		Closing Session						

				Day 5: September 22, Friday (Workshops and Tutorials)	
Time	Location	Session Type	Sesion Title	Speakers	Description
9:00 - 17:30		Concurrent Breakout Sessions	The 1st International Workshop on Autonomics and Cloud Security (ACS) + PUF	1) A Scattering Technique for Protecting Cryptographic Keys in the Cloud, Khaled Salah 2) Cognitive Cyber Security Assistant: Design Overview, Carla Sayan, Salim Hariri and George Ball 3) Real-time IRC Threat Detection Framework, Sicong Shao, Cihan Tunc, Pratik Satam and Salim Hariri 4) Cloud Computing Security Automation Framework, Cihan Tunc, Salim Hariri 4) Cloud Computing Security Automation Framework, Cihan Tunc, Salim Hariri Meni Merzouki, Charif Mahmoudi, Frederic J. de Vaulx, Jaafar Chbili, Robert Bohn and Abdella Battou 5) Enabling Risk Management for Smart Infrastructures with an Anomaly Behavior Analysis Intrusion Detection System, Jesus Pacheco, Xiaoyang Zhu, Youakim Badr and Salim Hariri 6) Identifying the Cyber Attack Origin with Partial Observation: A Linear Regression Based Approach, Mohammed Lalou, Hamamache Kheddouci and Salim Hariri 7) AnomalyDetect: A System for Detecting Anomalies in Cloud Services, Mamadou Diallo, Michael August, Scott Slayback, Christopher Graves and Dillon Glasser	
9:00 - 17:30		Concurrent Breakout Sessions	4th International Workshop on Self-Improving System Integration (SISSY 2017)		
9:00 - 17:30		Concurrent Breakout Sessions	Fifth International Workshop on Self-Adaptive and Self- Organising Socio-Technical Systems (SASO^ST 2017)		
9:00 - 17:30		Concurrent Breakout Sessions	Tutorial	Aggregate Programming	
10:30 - 11:00		Coffee Break			
11:00 - 17:30		Concurrent Breakout Sessions	The 5th International Workshop on Autonomic Management of high performance Grid and Cloud Computing (AMGCC'17)	1) Analysis of Service-oriented DBMS Organization, Woong Sul, H.Young Yeom and Hyungsoo Jung 2) A Case Study of leveraging High-Throughput Distributed Message Queue System for Many-Task Computing on Hadoop, Cao Nguyen, Jik-Soo Kim, Jaehwan Lee and Soonwook Hwang 3) Performance Optimization of Communication Subsystem in Scale-out Distributed Storage, Uiseok Song, Bodon Jeong, Sungyong Park and Kwonyong Lee 4) OMBM: Optimized memory bandwidth management for strict QoS and high server utilization, Hanul Sung, Jeesoo Min, Sujin Ha and Hyeonsang Eom 5) ZonFS: A Storage Class Memory File System with Memory Zone Partitioning on Linux, Jang Woong Kim, Jae-Hoon Kim, Awais Khan, Youngjae Kim and Sungyong Park 6) SUPERMAN: A Novel System for Storing and Retrieving Scientific-Simulation Provenance for Efficient Job Executions on Computing Clusters, Young-Kyoon Suh and Jin Ma 7) A Study on Optimal Scheduling using High-Bandwidth Memory of Knights Landing Processor, Seungwoo Rho, Geunchul Park, Jiksoo Kim, Seoyoung Kim and Dukyun Nam 8) A Hybrid Cloud Resource Clustering Method using Analysis of Application Characteristics, Yoori Oh and Yoonhee Kim	
12:30 - 14:00		Luncheon	Lunch		
15:30 - 16:00		Coffee Break			